JOURNAL

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New: KNX RF S-Mode

KNX Arrived in Latin America

New manufacturers, products, applications

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2014

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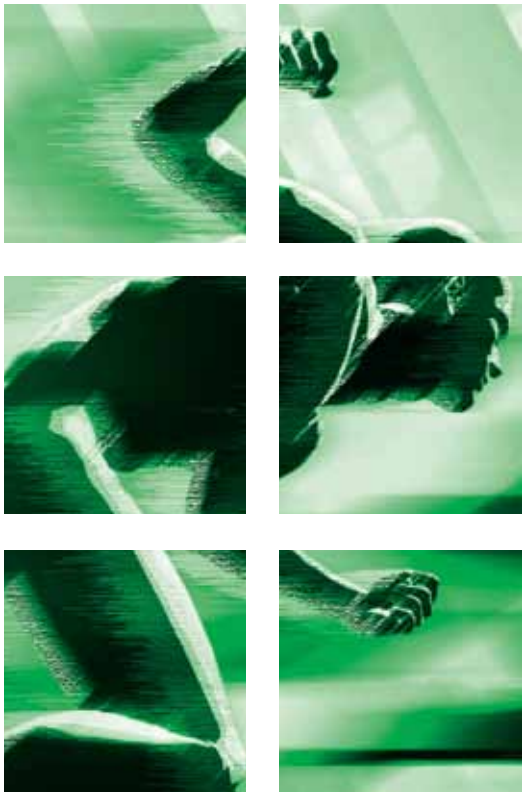

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Editorial

Heinz Lux,
CEO
KNX Association

KNX tango

Explorers and pioneers live dangerously. When the Prussian explorer Alexander von Humboldt set off on his now-famous 1799 – 1804 tour along the Orinoco and Amazon rivers of Latin America, he did not expect to come back alive. Fortunately for us, Humboldt was wrong, and today we can benefit from his legacy: a new way of understanding the world, based on the wealth of data that he obtained by counting, weighing, measuring and surveying the things he encountered on his travels. He showed us that discipline accounts for half the success; the other half is enthusiasm and luck.

These days, exploring uncharted territory involves more than just "Measuring the World". To be successful today and to solve customers' and market problems, one needs enjoyment, enthusiasm, flexibility, and empathy.

The same is true for tango and football. Enjoying physical movement, being able to get inside the head of your (business) partner and understand what matters to them is crucial if the movement is to result first in a dance or a game and then, ultimately, in pleasure and a thrill. "The tango is only intended for people made out of flesh and blood," said Carlos Gardel. The same goes for football. And who knows that better than our new partners in Latin America!

So: Latin America, welcome to KNX!

We all know you have no shortage of uncharted territory ahead of you. You will need to constantly stay on the ball – just like in the World Cup. But all the hard work, persuasion and enthusiasm will be worth it, because we know that from experience: "Experience and success are not what happen to a man; they are what a man makes out of them."

On that note: the very best of luck to KNX in Latin America!

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KNX will continue to extend its technology

Interview with Franz Kammerl (Siemens), the new president of KNX Association

Franz Kammerl,
President, KNX Association, Brussels

1. What focal points and targets do you see for the work during your mandate as President? Which priorities do you set?

After the KNX Technology achieved the status of world standard (ISO/IEC 14543-3) back in 2006, in the past years a lot was invested to not only make the technology a standard on paper but also in the market itself.

By the founding of national groups, organisation of local fairs and the spreading of the manufacturer independent universal KNX training concept through the set-up of new certified training centres, KNX has positioned itself in the market place as an established and proven technology, not only in Europe, but also in Asia, Latin America and even in Australia.

The number of KNX members has also grown exponentially. In the next years, these achieved successes must be consolidated in the before-said countries and an attempt must be made to establish KNX in not yet conquered markets, by opening them for our KNX offer.

In spite of the already high number of members, it is still needed to convince further members to extend their current product portfolio with KNX compatible products and to penetrate with KNX as protocol new application fields.

2. Can the existing technology still be improved?

In the past year, the specification work on encryption and authentication was finalised, the radio frequency was extended to become a multi-channel solution and the necessary specification updates were established to support radio frequency devices in ETS. This in preparation for the ETS5, to ensure that KNX RF S-Mode devices can be incorporated into TP installations without the need for manufacturer specific interfaces. This implied also the specification of a standardised KNX media coupler.

This clearly shows that there is still sufficient improvement potential for KNX, to continue to extend the KNX technology even further.

A challenge surely lies in the use of the internet technology to extend KNX into new application fields.

3. An indication of the market success is for sure the number of training centers. Can the opening of new training centres alone guarantee that the KNX technology conquers a certain market?

In some cases the need to participate in a five day course is seen by potential customers as too high an investment, to get acquainted with the technology. For this reason, the ETS e-Campus infrastructure was set up in the past years, allowing to convey the basic knowledge on KNX and ETS via a web based platform and with minimum effort (on average two hours), all of this free of charge for the participant. The e-Campus is a clear success: via these means more than 10,000 persons informed themselves on the KNX technology in the year 2013 alone.

The infrastructure has the additional advantage that persons are far better prepared for a future training at a KNX certified training center: a clear win-win situation for both KNX as well as the training centers.

4. The manufacturer and product independent configuration tool ETS is the basis for the worldwide success of KNX. How do you see the future development of the tool?

As already indicated before, the new ETS generation will be presented to the public at light+building 2014. Not only will the ETS5 for the very first time offer direct support for KNX RF applications, it will also for the very first time manage its data without the need for a data base. This will considerably improve speed and work efficiency.

On top of that, a new concept for the support of manufacturer specific configuration software (previously referred to as "Plug-ins") will be introduced in the ETS5, which will considerably facilitate the handling of such extensions both by the manufacturer as well as the end user.

At the light+building a study will be presented, how the ETS could be used on modern user interfaces like tablet PCs, of which the use is constantly increasing.

Last but not least, it is the wish to extend the application range thanks to new ETS Apps, not only emanating from the KNX Association itself but also from KNX members.

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KNX has arrived in Argentina

Argentina, officially the Argentine Federal Republic, is located in the south-eastern part of Latin America and is the country that has been officially promoting KNX activities the most on that continent.

These promotional activities began in 2011 when the country not only set up two KNX training centres in the region, but also participated at the BIEL 2011 trade fair. Motivated by the success of these activities, in 2012 KNX Argentina had a stand at the AADECA fair, where the national association was also officially founded. Finally, in 2013, KNX Argentina organised its first KNX Workshop, again participated at the BIEL trade fair, and recruited the country's most active KNX members: ABB, EGi, Jung, Merten and Vimar.

The KNX Training Centres in the region, CTF TRAINING CENTERS and THI s.a.i.c, have helped to increase the numbers of the national network of professionals to almost 50 in the last three years.

An outstanding project in Argentina: the JP Morgan offices

Many prestigious projects have been completed in Argentina, of which this is just one. The owner of JP Morgan's Argentine offices chose the KNX technology because of its ability to display data in a simple way, and for the ease with which the system can be expanded (its scalability).

Initially the customer requested alarming and status control facilities for the various applications, access control and alarm control, temperature control, and remote operation. Once the KNX devices had been incorporated into the system, any errors or intrusions could be monitored and energy generation controlled via the displays. The customer's satisfaction is clearly demonstrated by the fact that he subsequently requested the installation of further applications (light, air conditioning, heat control, etc.) in the second tower of the Catalinas Complex, the building where the JP Morgan offices are located.

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View of the Torres Catalinas

KNX stand at the BIEL trade fair in Buenos Aires in 2011 (for pictures of KNX Argentina at the latest edition of the fair, BIEL 2013, please see KNX National Groups section)

Brazil, the country in the spotlight, goes KNX

Brazil is the largest country on the Latin American continent and the one with the strongest economy. Because of the potential it represents, it goes without saying that this country is also a target market for KNX.

Since its foundation in 2012, the Brazilian KNX National Group has been very active. With more than ten KNX Members joining the association, it was not long before demand grew for more events and training opportunities. The Group's first official activities were its participation at Predialtec and at the major Habitar conference. Some months later, in collaboration with KNX Association International, KNX Brazil organised the first KNX Forum in Brazil as well as a KNX tutor course for active players interested in expanding the KNX know-how all over the country's territory. As a result the Group has been contacted by a large number of interested parties and five new KNX Training Centres have been set up in several of the country's regions including Brasilia, Sao Paulo and Anápolis.

In addition to the initial activities of the National Group itself, and those it has planned for 2014, KNX has been used in a number of prestigious projects, including the offices of petroleum giant Petrobras, which prides itself on its green credentials. Odebrecht's headquarters have also been fitted with KNX products. Odebrecht is a Brazilian conglomerate of various businesses in the fields of engineering, construction, chemicals and petrochemicals.

KNX will also play a role in the long awaited sports events that will soon be taking place in Brazil, because one of the main stadia, the Maracanã, boasts KNX automation solutions. Built in 1950, the Maracanã was renovated for the 2013 FIFA Confederations Cup, the 2014 Football World Cup (the first to be held in Brazil since 1950), and also the 2016 Summer Olympics and Paralympic Games.

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The Estadio do Maracanã.

Rogerio Ribeiro, President of KNX Brazil, at the 1st KNX Forum in Brazil

KNX Chile: the 3rd KNX National Group founded in Latin America

The Republic of Chile is one of South America's most stable and prosperous nations. It is a Latin American leader in education, ability to compete internationally, income per capita, globalisation, and – most of all – also in the quality of its KNX installations, thanks to those companies that brought KNX know-how to the country some years ago.

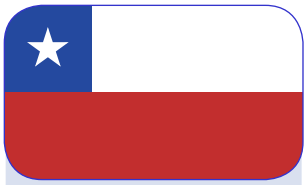
In October 2013, the KNX National Group of Chile was set up with eleven founder members, mostly system integrators and professionals who were already well acquainted with the KNX technology. Even at that stage a large number of other established companies in Chile were already showing an interest in being part of the national association.

In addition to the KNX Members, KNX Partners and KNX Training Centres in the country, KNX Chile has among its members the only KNX Scientific Partner in Latin America: the Universidad Tecnológica de Chile (INACAP) – further evidence of the strong network for the development of KNX in Chile.

Many projects have been realised in Chile using KNX, such as the Deloitte project, a milestone in the certification of sustainable buildings in Chile.

Symbolic project in Chile: The FORUS distribution Centre

The FORUS logistics centre is another good example: the KNX installation for this building was initially designed to control 2,800 fluorescent lamps over an area of 11,000 square metres spanning four storeys. When the owner realised how flexible KNX is and the extent of the scalability of KNX control systems, he gradually requested the installation of more KNX applications including lighting control, HVAC control, IP services based on KNX, etc.



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Mario Sanhueza, Secretary of KNX Chile, at the opening of the first KNX event in Chile.

Exterior of the FORUS logistics centre

KNX Colombia: a new KNX National Group for an emerging market

It was only after several months of working with the most active companies in the Colombian market, that the KNX Association became fully aware of the extent of the interest for KNX in the country and decided to establish the fifth national group in Latin America, after Argentina, Brazil, Chile and Uruguay. The founding of KNX Colombia was a clear sign that KNX has been firmly established on the continent, and helped to further enhance the overall image of KNX Association International, which is now represented in 40 countries on five continents.

KNX Colombia may be the youngest KNX National Group, but it is already very well established with its members including all the main KNX manufacturers in the country. It operates two KNX Training Centres and has on board some active and influential KNX Partners. Representatives of KNX Association International and the new local association therefore joined forces to host a KNX stand at one of the most important exhibitions in Medellin. During the fair, the KNX Association stand served as meeting point for visitors and a venue for KNX seminars, and the KNX National Group was also officially founded there (for more details about this founding meeting, please see the Section on KNX National Groups).

Although KNX Colombia is the newest KNX National Group, a large number of iconic projects have already been completed in the country. A good example is the new terminal at Bogotá's El Dorado International Airport is **the largest KNX Project in Colombia.** The KNX installation covers the main building (180,000 square metres), the outdoor areas and runways (580,000 square metres), and the hangars (280,000 square metres). The main benefits that KNX brought to this project were its efficient use of energy, the minimal use of artificial lighting and maximum use of natural light, access control, and the quality of the visualisations.

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Seminar introducing visitors to KNX at the KNX stand at FISE 2013 in Medellin.

The entrance to International Departures at El Dorado International Airport

View of El Dorado International Airport in Bogotá (Colombia)

KNX Uruguay: the smallest KNX National Group in Latin America

The Oriental Republic of Uruguay is home to 3.3 million people, of whom 1.8 million live in the metropolitan area of its capital and largest city, Montevideo. Despite its small size – Uruguay is geographically the second-smallest nation in South America – it frequently ranks among the continent's most developed and prosperous countries. Uruguay's great potential did not go unnoticed for KNX, which established a national association there.

Ever since the very early days of the National Group, the KNX Association has supported a range of activities in the country such as the establishment of the first KNX Training Centre in Montevideo, which helped to share KNX know-how around the country. Thanks to this, the number of KNX projects started to increase rapidly.

Outstanding project in Uruguay: Hospital Policial de Montevideo

The Hospital Policial de Montevideo includes a KNX installation in one of the surgical blocks of the Police Hospital in Montevideo – one of the city's most prestigious projects – covering everything from the outdoor areas and offices to the operating theatres.

KNX was used to integrate the lighting, HVAC control, intercom control, access control and automatic doors with highly advanced professional tools to make this hospital one of the most advanced in the world. Here once again, KNX has improved the quality of people's private and working lives.

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Operating room at the Hospital Policial de Montevideo

Exterior of the Hospital Policial de Montevideo

First KNX event in Uruguay

Energy efficiency in retrofit

KNX as an advantage when retrofitting

The challenge

The KNX city is built on solid foundations. That includes not just the trusted KNX system itself, but also the experience gained over the past 20 years of equipping buildings with KNX bus lines, either as part of early automation efforts or as a far-sighted precaution. KNX connects the key technical features in buildings better than any other system. Ingenieurbüro Beyer shows how this trump card can be played to make existing buildings more energy-efficient. The first step is always a detailed consumption survey in order to observe and document the energy consumption.

The solution

The KNX system offers numerous solutions for surveying consumption both centrally and decentrally. As well as single and three-phase KNX energy meters, KNX actuators with current detection and KNX modules with current transformers are also available. Although the measuring accuracy of the latter is not suitable for billing purposes, it is sufficient to give a general idea of the energy consumption in a building. They can be used, particularly in existing distributors, as space-saving replacements for the original actuators, or fitted in sockets.

Practical implementation

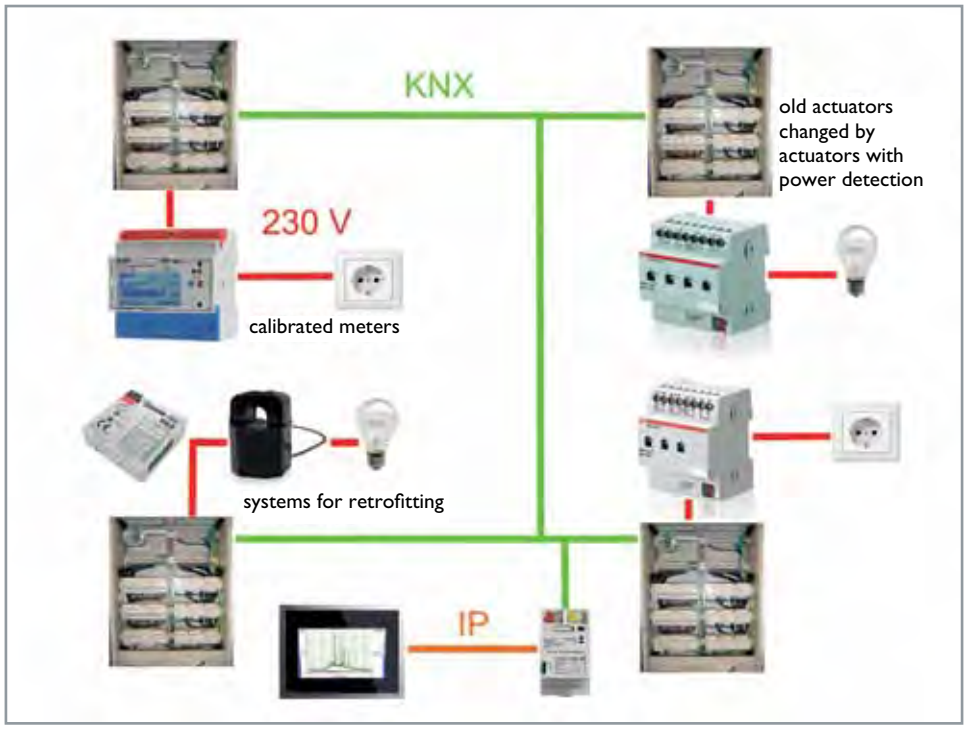
The example application uses various different energy meters: KNX meters for overall consumption (Gira), KNX energy actuators (ABB) and actuators with current detection for the consumption in consumer circuits, and a KNX ammeter with current transformer (Zennio) for individual appliances. Additional consumers can be switched on using KNX push buttons. The highlight of this presentation is the way in which the energy consumption of the building can be measured by a KNX energy meter at the main infeed and displayed on the installed touch screen.

Functions

All the KNX energy data can be recorded, documented and visually displayed at a central location, as preferred by building operators in real life. The data are then available for processing with Excel or for access by a superordinate energy management system. Charts and graphics can reveal the energy consumption of a building over the course of a day. Individual consumers can be shown if desired, and photographs of distributors in existing buildings provide a convincing argument in favour of retrofitting with KNX measuring equipment and of how easy it is to carry out.

Benefits

- Use of the existing KNX bus line for retrofitting existing buildings with measuring equipment
- Centralised and decentralised energy consumption measurement
- Overview of energy flows for the optimisation of energy consumption
- Historical energy data for monitoring the effectiveness of energy-saving measures
- Database can also be used by other programs



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Energy efficiency in social media

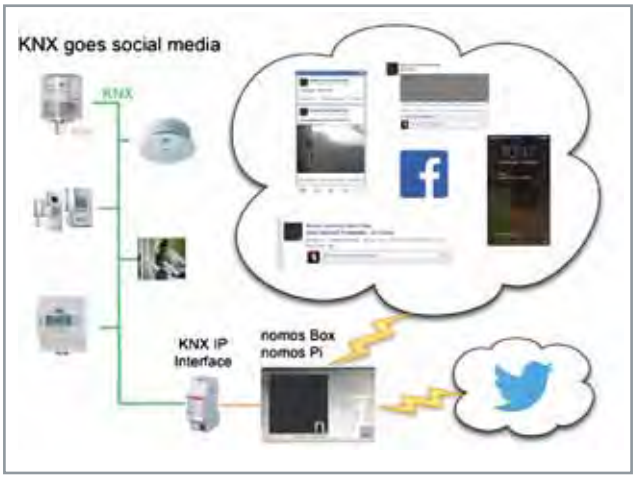
Discussing energy-saving ideas in social media

The challenge

Payback times for home solar collectors and potential energy savings provoke lively debates! What is the best solution? Who is saving how, and how much energy are they saving? Social media provide the ideal platform for debate and the sharing of information about building automation. They can be used to exchange views publicly or in a closed group, publish information on building control systems, or organise alarm management. The KNX city can benefit from the sharing of information and experience via social media. Elektronik Innovativ, Dortmund, shows how to prepare KNX data for social media.

The solution

The example shows devices for collecting data plus a webcam, a motion detector (Basalte) and a weather sensor (Elsner). The data are sent to the central Gateway by KNX. A NOMOS Box (nomos system AG) processes and sends the data to the social media. It is connected to KNX by a KNX IP interface (ABB).



Practical implementation

All data are sent to the NOMOS Box via KNX. The multi-protocol Gateway collects and evaluates the data that are then sent to the social media; for example at specific intervals or if a parameter exceeds or falls below a set value. The information is made available publicly or to a defined user group, depending on the level of priority assigned to it.

Functions

The functions shown are examples, illustrating e.g. how data from a meter or a diagram showing current consumption values can be transmitted. If the motion detector is triggered, then the current image on the webcam is shown. Alarm statuses such as wind warnings or rain alerts can also be quickly detected, using Twitter in this case.
A further function shows how data from the weather station can be automatically sent to the social media every two hours.

Benefits

- Transfer of building control data to a publicly-accessible platform
- Automatic information on and documentation of technical statuses
- For example, data on a wind park can be collected and made available to a private group of investors in the wind park
- Notifications of technical faults can be sent to the personnel responsible
- Publication of energy savings and associated reductions in CO_2 emissions
- Communication to the public of energy-saving measures

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KNX Audio messaging

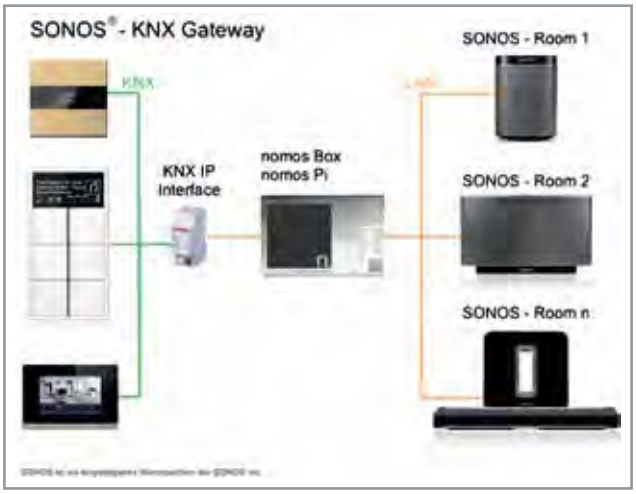
When the music title activates KNX lighting scenes

The challenge

The building automation system in the KNX city, linking up all building systems and components with one another, opens up a whole series of new possibilities. Besides a range of measures for convenience, comfort, safety, security and energy efficiency, KNX can also be used for multimedia control. This adds convenience to your home and further increases the benefits of the installed KNX system. Elektronik Innovativ, Dortmund, shows how audio clients can be integrated in the KNX system as illustrated by the SONOS Multiroom solution.

The solution

The panel shows a graphical representation of a SONOS system installation for three rooms. The various audio devices are connected via LAN to a central NOMOS Box Gateway (nomos system AG). This in turn is connected to KNX by a KNX IP interface (ABB). The Multiroom System is operated using KNX sensors with an integrated display (Basalte, Jung) and a Comfort Panel (Busch-Jaeger).



Practical implementation

The central NOMOS Box Gateway analyses the KNX telegrams from the KNX sensors and sends the relevant control commands to the SONOS clients. Information from the SONOS world is converted in turn into appropriate KNX telegrams and sent to the KNX sensors. The NOMOS box supports approx. 60 commands and operates bidirectionally, based on events. Information such as titles, performers etc. can also be sent. The cover picture of the current title or station is also supplied via a mini webserver and displayed on the Comfort Panel.

Functions

The SONOS devices are switched on and off via the KNX sensors. Playlists and radio stations can also be individually selected and controlled in the same way. The device also allows volume control. Current information on titles and volume are displayed on the screen.
A special feature is the option of responding to different status messages on the SONOS system at any point for specific events. This allows e.g. lighting scenes or switching sequences to be activated from the SONOS app when particular playlists are called up. Conversely, acoustic notifications can be provided of e.g. electricity tariff information from the KNX city.

Benefits

- Operation of the SONOS Multiroom system via the KNX sensors
- Direct selection of playlists and radio stations
- Display of volume, current title, performers and even the cover
- Automatic activation of KNX scenes or sequences
- Can be configured for numerous individual requirements
- Up to 25 SONOS devices can be integrated
- Added value for users of the KNX system

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Sustainable urban residential buildings

Option of communication with the smart grid

The challenge

The KNX city is made up of intelligent commercial, industrial, public and – above all – residential buildings. The building automation solutions in the KNX city are aimed primarily at enhancing not just energy efficiency, comfort and convenience, but also safety and security. For this vision of a sustainable city to become a reality, a KNX system is a must. Here the process technology company GePro from Stralsund in Germany shows, with the help of a selection of KNX functions, what home automation is currently capable of, and what options it opens up for the future.

The solution

Lighting and room temperature control are typical elements of a home automation system. A webcam symbolises security equipment such as alarm and video surveillance systems. A touch panel display is the central control interface of any home automation system. Smart homes will only be accepted by users if they are sufficiently easy to operate. No intelligent home installation could claim to be fully up to date if it was not possible to control and check its functions via the internet.

Practical implementation

The lighting control system can be used to switch lights on and off, dim them, and call up individual lighting scenes. It includes a convenient central key for switching the lights off. The integrated room temperature control can be used to select different temperatures and also includes a timer function, both of which help to save heating energy. A smartphone is integrated into the system via KNX and can be used for system visualisation and to control music.

Functions

Operation and monitoring are the two primary functions that the system must perform. All lighting is controlled centrally via keys connected to the bus (GePro). Integrated LEDs in various colours are used for monitoring the status of lights. The touch PC (GePro) permits centralised operation and monitoring of the system. The visualisation software (Elvis) can be used for programming automatic functions. There is also the option of communication with the city's smart grid, via smart metering. Video images from the CCTV camera are also transmitted to the monitor. Information on the status of any function can be called up remotely via a KNX IP Gateway (Weinzierl) and a smartphone.

Benefits

- Home automation system with a wide range of functions
- Safety, security, comfort, convenience and energy efficiency
- Operation and monitoring of functions from a central point
- Remote access via smartphone
- Alarm forwarding
- Option of communication with smart grids

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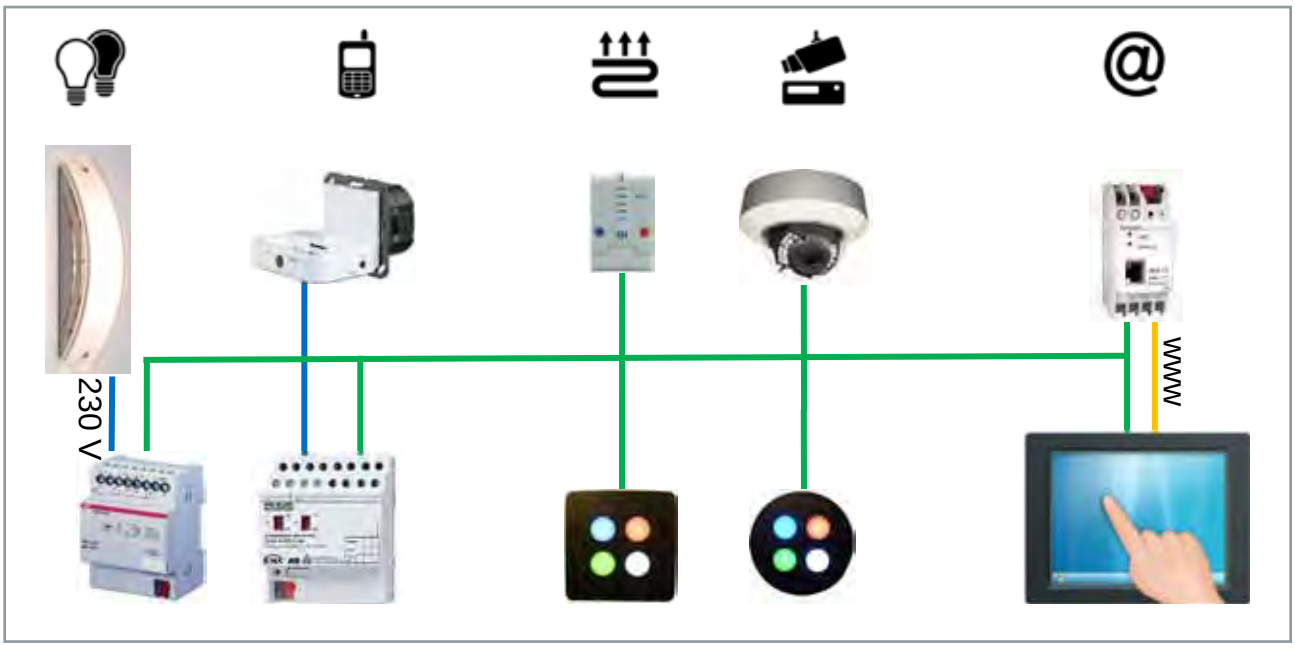

Sustainable urban commercial buildings

Choice of automation or manual operation

The challenge

Building automation represents great potential for reducing energy use in public buildings, schools, office blocks and factories. KNX system can be used to control heating according to users' precise needs, prevent heat loss, automatically turn lights off, shade facades, reduce a building's cooling load, and control electric loads in response to differential tariffs – not forgetting a whole series of other functions for improving the comfort, convenience, safety and security of a building. Commercial buildings are an integral part of a sustainable city. In order users to accept a building's automation system, the system's monitoring and operating concepts must reflect the real-life situation that they face. Here the process technology company GePro from Stralsund in Germany offers some examples of how this can be achieved.

The solution

The diagram shows some features typically present in commercial buildings: a presence detector (Esylux) is shown as an example of energy-efficient lighting control. An air quality sensor (Gira) symbolises a healthy and pleasant building climate. And the KNX energy meter (ABB) represents the monitoring of energy consumption data. There is also a smoke detector system, representing the building's safety features, and a door/gate control system (Elsner), which stands for convenience. The ability of KNX to cope with highly specialised challenges is symbolised by the motor-powered sports equipment. The example of a sports hall shows that it should be easy for a wide range of people to operate and check the status of control elements.

Practical implementation

There are three different levels at which the automation system in a commercial building can be controlled: centrally, from the control room; decentrally, directly on site; and semi-centrally, for individual zones. For the latter there are touch panels with keys, an indicator LED, an acoustic alarm (buzzer), and key switches . Their anti-tamper design allows them to be used safely in locations where they might be vulnerable to misuse. Keys with indicator LEDs and labelling help to minimise the risk of operating errors.

Functions

As well as being able to be controlled automatically to save energy, lights can also be switched on and off manually. Indicator LEDs show in what rooms there are still lights on. Typically, room temperatures in commercial buildings are defined centrally, to prevent energy waste as a result of values being set too high. However, to meet individual needs, keys can be used if desired to reduce the set temperatures by a few degrees up or down. Alarms are both acoustic and visual (via LED). For critical applications such as door or gate controls, dead man's switches can be used to prevent injury. In sensitive areas it may be necessary to make it impossible for the system to be controlled by the public. In this case it is advisable to install key switches, which can only be operated by authorised employees.

Benefits

- One system performs numerous different functions in commercial buildings
- Automated for energy efficiency
- Monitoring of energy consumption data
- Can be adapted for even more effective energy-saving
- Operating concepts tailored to individual needs

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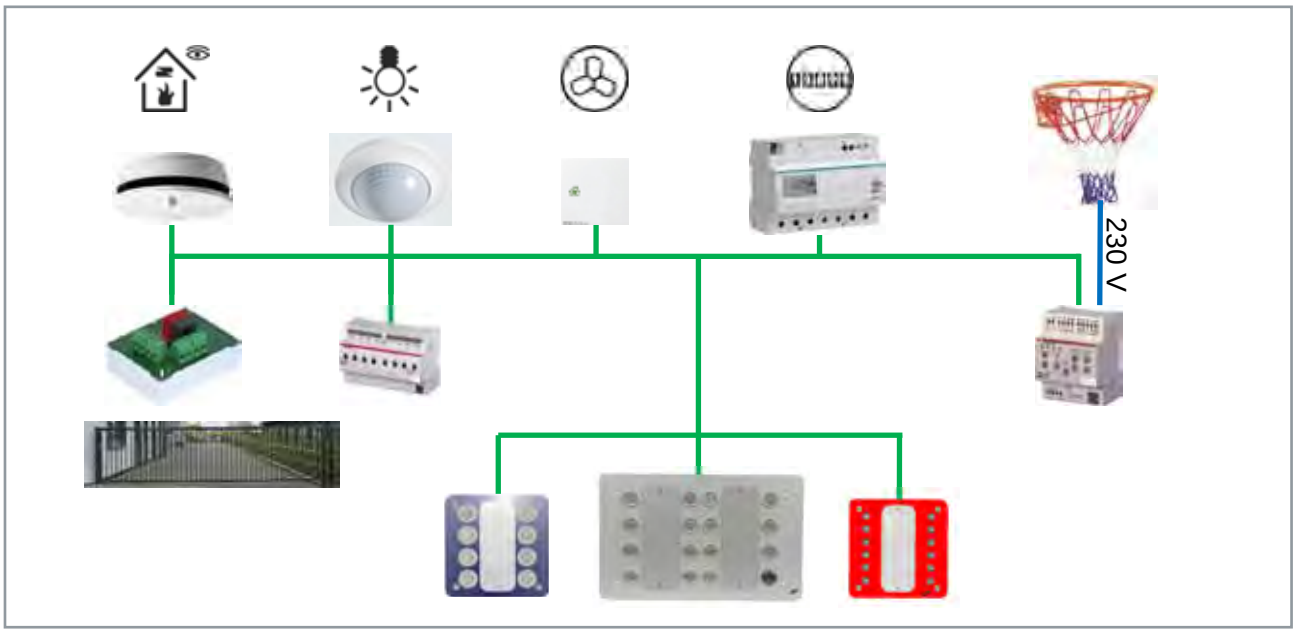


Demand Side Management

Use solar power instead of paying for peak power

The challenge

It makes sense in economic terms if urban electrical power requirements are matched to the power being generated at the time. The incentive for this is provided by energy supply contracts dependent on peak loads, or 'differential electricity tariffs'. Intelligent demand side management systems are growing in importance, especially as a way of complying with the conditions of these kinds of contracts and tariffs, particularly as a consequence of the increased contribution by solar and wind power. The company Gebäude-Programmierer-Service e. K. Helmut Haßenpflug, Frielendorf, shows how commercial consumers can use KNX to avoid expensive peak loads and benefit from low-cost tariffs or even self-generated solar power, taking a canteen kitchen as an example.

The solution

The consumer load consists of two boiling pans of 18 kW each, one tilting fry-top (20 kW), and three steamers (19 kW each). The aim is to control these heavy-duty units so that the total of their individual loads does not exceed a preset value. This set value is represented by energy values valid for 15 minutes at a time. In consultation with the chef, rules are drawn up setting out priorities so that the units can be switched off for short periods without any noticeable effect on performance.

Practical implementation

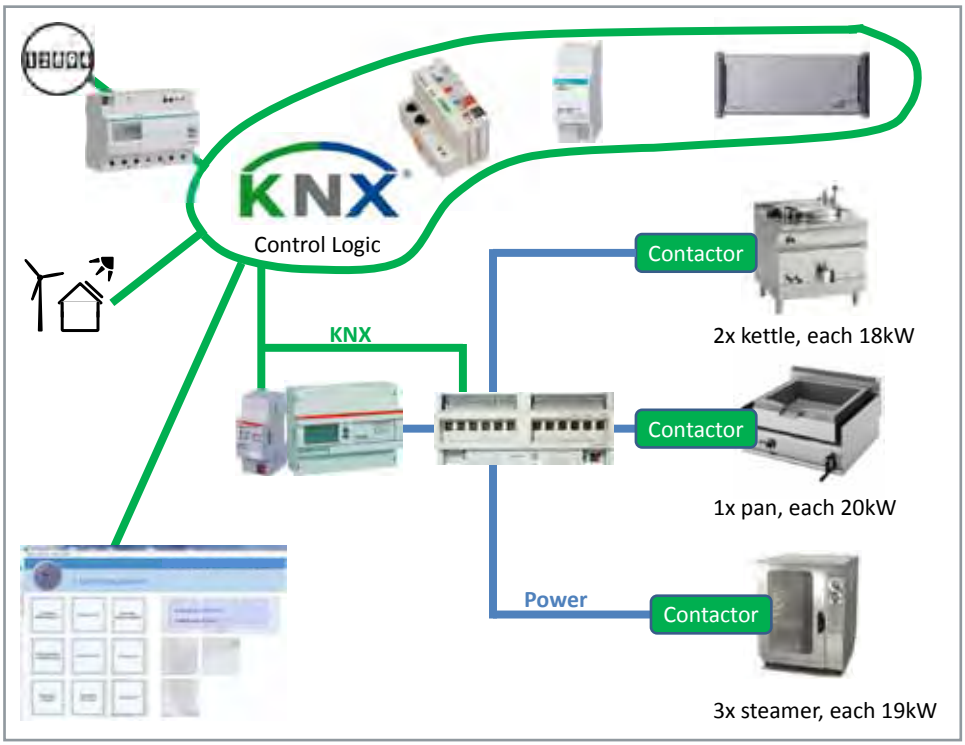
The electrical consumers are represented by KNX energy meters (Hager, ABB) or an S0 tap on the main meter. As the canteen kitchen units are fitted with potential-free contacts, their contactors can be operated directly by KNX switching actuators. The logic connections are implemented via a KNX visual display. The demand side management system also takes into account the power generated by the installation's own photovoltaic system (installed power: 30 kWp).

Functions

The demand side management system programmed using KNX software works in a more differentiated way than conventional maximum-value monitoring, and is based on a coordinated set of rules and setpoints. In order to be able to react at an early stage during the 15-minute intervals, the demand side management system continuously calculates the trend in demand. Furthermore, surplus solar power raises the setpoint, so that switch-offs that would have been necessary are avoided and self-generated energy consumption increases. One of the purposes of documentation of demand side management is to provide evidence of any manual intervention in demand side management (override switching) by the chef.

Benefits

- Demand side management integrated in the KNX system
- Prevention of peak loads
- Coordinated switch-off rules
- Increased use of self-generated solar power
- Expandable for tariff management purposes (high and low tariffs)
- Visual displays and documentation



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Renewable Mobility

Driving around town with your own solar energy

The challenge

Electric mobility will play an important part in sustainable cities such as the KNX city. A key aspect of this is that electric vehicles used in private transport will be charged using renewable, carbon-neutral energy. As the timeframe for charging electric cars at charging stations in car parks or garages is usually flexible due to long standing times, the charging operation can be adapted to the building's own solar collectors or wind turbines. The presentation by Koyne-System-Elektronik, Berlin, shows an intelligent solution to this problem based on KNX.

The solution

The example shows a single family home with its own photovoltaic system, the power from which is both fed into the grid and consumed on site. If a lot of solar power is produced and not much is used in the house itself, it makes sense to charge the electric vehicle using the surplus solar power as far as possible. The KNX system calculates an output target value from the difference between the current grid feed-in and private consumption. This is used for calculating the charging capacity.

Practical implementation

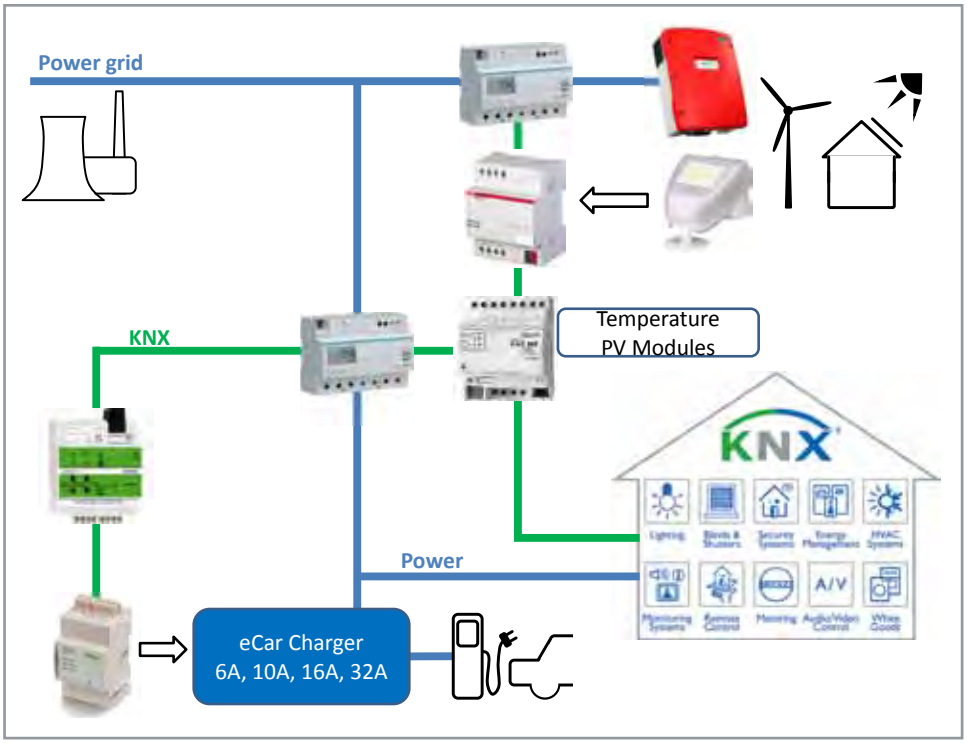
KNX meters (Hager) measure the consumption and generation figures. A KNX weather station (ABB) supplies data on wind, rain and solar radiation. Temperature values are sent to the bus by the KNX analogue input (Jung). The charging post is controlled using KNX logic and a KNX actuator. Current solar radiation values and the temperature of the solar modules measured by KNX are used for monitoring and control.

Functions

The particular technical refinement of the presentation is the interface between the electric vehicle and KNX. The charging post is fitted with a charging control unit (Wago Pilot-Box). This starts and stops the charging process and can automatically set different charging currents (6 A, 10 A, 16 A, 32 A) controlled by KNX. This is regulated using the set value calculated from the energy surplus. The underlying logic is: small surplus = low charging current, large surplus = high charging current. The channels of a KNX actuator drive the potential-free inputs of the Pilot-Box accordingly. The connection to the electric vehicle is via standardised pulse-width communication.

Benefits

- Use of carbon-neutral energy for private transport
- Increasing private consumption from solar power
- Solution is simple to implement
- Use of the KNX system which is already installed
- Based on the calculated energy surplus, KNX enables other consumers to be activated, further increasing the amount of power consumed on site.



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Saving heating energy costs

Efficient heating with fire and flame

The challenge

One single system to control all building services and components conveniently, reliably and energy-efficiently: that's KNX. One of the ways in which the KNX system increases energy efficiency is by making more efficient use of primary energy, thus benefiting the world's climate, the environment, the purity of the air in our cities, and last but not least the user's wallet. The example from the engineering company HSEG (Ingenieurbüro für Elektroplanung und Gebäudesystemtechnik Dipl.-Ing. Holger Schult) from Glienicke in Germany shows how KNX individual room control can be retrofitted in order to exercise direct control over the heating gas or oil burner.

The solution

Until now, consumption of primary energy has been regulated entirely by boiler controls, which respond to the outdoor temperature, in contrast to thermostatic valves that respond to the temperature indoors. However, a holistic heating control system will also take into account the current heating requirements for the supply temperature, which will save primary energy. This is achieved by a KNX gateway to the boiler control bus protocol, which creates the necessary link to the heating system. Individual room control can be retrofitted as a wireless system, and linking the valves with window contacts optimises the energy efficiency still further.

Practical implementation

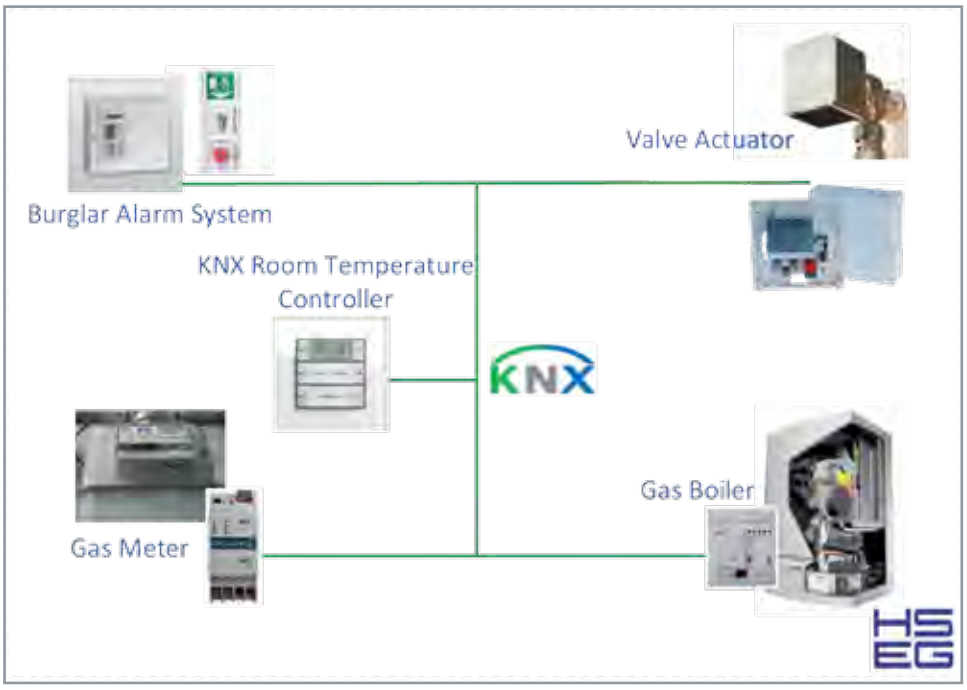
The presentation shows how KNX individual room control can be easily retrofitted via a wireless system (Weinzierl) and KNX/EnOcean gateway. The connection between KNX and the boiler is provided by an OpenTherm/KNX interface (Theben), allowing the KNX system direct access and regulate the gas flame, control a circulation pump and request information about the boiler temperature. The gas consumption is determined by an S0/KNX converter (Arcus EDS). The existing alarm system can be used to monitor the windows – an example of the synergies offered by the KNX system.

Functions

When heat is requested by a KNX room temperature controller (Gira) connected to the system, the request is transmitted to both the valve actuator and the gas flame. The intensity of the heat supplied is calculated on the basis of a sophisticated logic based on room sizes as a proportion of the overall building surface area, so that the supply temperature is matched exactly to the requirements. Furthermore, timer schedules ensure economical heating by automatically switching the room temperature controller to standby or reducing the temperature at night. A visual display and documentation of the heating control system and current gas consumption in the actual residential building can be consulted to optimise energy-saving efforts.

Benefits

- Energy-efficient heating
- Primary energy savings
- Permanently comfortable heating matched to requirements
- Simple to retrofit
- Continuous monitoring of consumption
- Flexible for further optimisation



HSEG

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Self-sustainable single family home

Energy management when you're off-grid

The challenge

'Self-sustainable – that's what we ought to be!' is the thought running through the mind of many a householder every time the electricity bill comes in. In view of the energy turnaround and its constantly increasing prices, the trend towards energy self-sustainability could be interesting in the sustainable city as well. In remote areas, some buildings already meet all their power needs with self-generated electricity. The presentation by Smart Building Design GmbH from Switzerland shows how KNX can optimise the interplay of energy generation, storage and use.

The solution

The project shows the KNX installation at 'Finca Los Míticos' on the holiday island of Mallorca. The 450-square metre property includes a residential house, a guest house and a swimming pool. Electrical energy is generated by a 5.5 kWp photovoltaic plant and a 1.2 kWp wind turbine, and the energy storage unit consists of an 800 Ah/40 V solar battery. If these energy sources are not sufficient, an emergency power generator steps in. Heat for hot water and heating is provided by solar collectors or in an emergency by an oil-fired boiler. The KNX system performs a number of different tasks in order to match the electricity consumption in the building to the availability of electrical energy, and to coordinate the various energy sources with one another.

Practical implementation

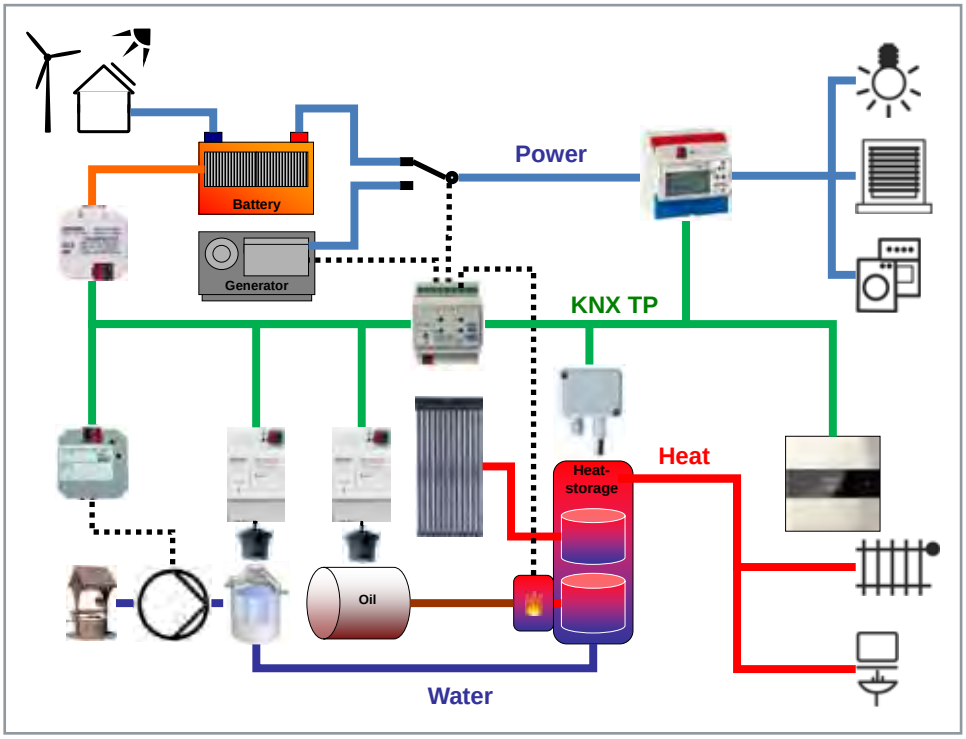
The building services have been designed with energy efficiency firmly in mind. For example, the lighting uses power-saving LED technology, and importance is attached to having the highest Energy Label on the domestic electric appliances. The KNX system controls the lighting, solar control components and room temperatures and incorporates energy-saving automatic equipment such as presence detectors. If the electricity supply nonetheless starts to run low, a load-shedding function switches off certain predefined consumers for a brief period.

Functions

The system's sophisticated technical features also include battery charge monitoring by a KNX analogue input. If the charge drops to a level below 50 percent, KNX starts the generator and switches over the power supply line. Electricity consumption is measured, analysed and visualised by KNX.
KNX sensors (Lingg & Janke) measure the supply and return temperatures and also the temperature in the heat storage unit of the solar and heating system. If the heat hits a minimum level, the oil burner is started. KNX also controls the well pump as a function of the cistern level, and monitors the heating oil tank and the protective circuit breakers.

Benefits

- More economical energy use
- Reliable electricity supply
- Solar, photovoltaic and cistern systems all integrated
- Heating and ventilation performance optimised by KNX
- Visual displays for operation, monitoring and analysis
- High energy efficiency



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Distributed facilities

A quick check on what's going on at the office

The challenge

Is there anyone still in the office? Has anyone remembered to put the alarm on? Employers in particular will appreciate the way that KNX makes it possible to check up on your business premises, turn down the air conditioning or switch the lights on or off, all without leaving your own home. Elektro Wagner GmbH in Wehrheim, Germany, has tackled the issue of networking two sites to permit the operation and monitoring of one building from the other. The project additionally shows how several sites can be incorporated into a single, centralised energy management system, in line with the 'sustainable city' concept.

The solution

The sample project is portrayed with the help of two diagrams, one representing the typical functions of a residential building, the other showing examples of the technology that might be found in a commercial building. All of the functions of the two buildings, for example lighting control, the shading system, home communication, media control and malfunction messages are integrated into a single, completely homogeneous operating concept. The internet is the network used to link the two 'buildings'.

Practical implementation

Both of these two building installations are based on KNX technology. They are joined by KNX IP via VPN (Gira, with ABB KNX IP routers). The VPN Tunnel ensures that communication between the buildings is adequately protected against unauthorised access.

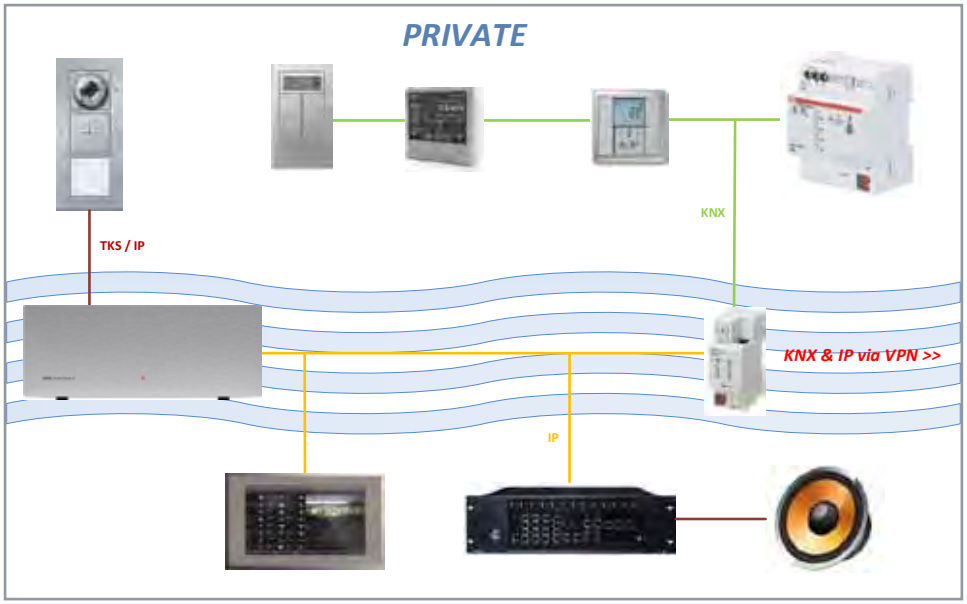
In the residential building there are local operating keys for light, room temperature control, music and voice (Merten, Jung, Elsner, Arcus-EDS), a video entry phone system (Gira), and a Multiroom system (Trivum). All functions can be viewed on a single visual display (Homeserver), and monitored, controlled and preset via a touchscreen (Gira). This is where all alerts and video footage from the house system are displayed. The 'commercial building' demonstrates, for example, how a VdS-certified burglar alarm system can communicate with a KNX installation. The integrated KNX interface links the systems in a completely transparent way, allowing status information to be requested and control room equipment to be operated all via KNX.

Functions

KNX does not only allow the functions of the commercial building to be monitored and controlled from the residential building; conversely, it is also possible to determine from the office whether someone is ringing the doorbell, the heating system is faulty, or the CCTV has been triggered back at home. The convenient 'talking' room controllers (Enertex) will be a very popular attraction among visitors to the fair. Not only can they be used to control lighting scenes, multimedia and setpoint temperatures by voice, but they can even answer users' spoken questions about the statuses of these functions.

Benefits

- Easy monitoring of the building technology in separate buildings from a single location
- Consistent, ergonomic operating concept means two buildings can be operated just as easily as one
- Easy to quickly check operating statuses and remedy faults
- Better monitoring of energy use saves energy and money
- System is easy to modify or add to thanks to KNX technology



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Overall energy management in buildings

Central control increases hospital efficiency

The challenge

Everything in hospitals in the sustainable city is focused on the treatment and recovery of the patients. This requires the building services to function faultlessly. The sample project by ib company GmbH, Pforzheim, is based on a project that has already been implemented. The task was to network several buildings in an existing hospital complex to permit modern, efficient building control with central energy management. A central control station is required to monitor and operate the technical systems, receive error messages and process energy data. Additional tasks: the room functions also needed to be automated to increase comfort, convenience, safety and security in the wards, and as energy-saving measures.

The solution

The electrical installations in the hospital buildings were fitted with KNX a few years ago. An ideal solution to the task therefore presented itself. The existing KNX-based building services could simply be combined into a single unit using a KNX/IP router (Hager). The central control station for building management now allows visualisation of all the functions in the buildings. The sample project shows in particular the field bus level for regulating the individual room control, lighting control and blind control plus various operating options.

Practical implementation

If KNX is already integrated in the building, then functions can often simply be retrofitted. The KNX individual room control (Gira) was implemented using wireless window handles (EnOcean) and an appropriate KNX Gateway (Wago), without having to lay any cables. This measure helped to avoid heat loss e.g. through open windows. Automatic functions were also integrated for the lighting and solar control. The extensive parameterisation work in the actual project was facilitated by the KNX configurator with automatically generated Group Addresses.

Functions

In addition to wall-mounted push buttons with room temperature control, the tablet attached to the hospital bed allows barrier-free operation of the room functions. Patients have control of the lighting, blinds and room temperature at their fingertips. They can also switch on and select programmes on consumer audio and video devices. In addition the tablet allows communication with the nursing staff via the integrated patient call system. The central functions of the control centre include alarm management. Fault messages are relayed to the relevant service department depending on their type and priority. Centrally compiled energy data including those generated on site are used for monitoring and optimising measures for efficient energy use.

Benefits

- Technical management for efficient building use
- Central energy management
- Fast response to fault messages
- Retrofittable energy-saving measures
- Barrier-free operation from hospital bed
- Comfort, convenience, safety and security for patients

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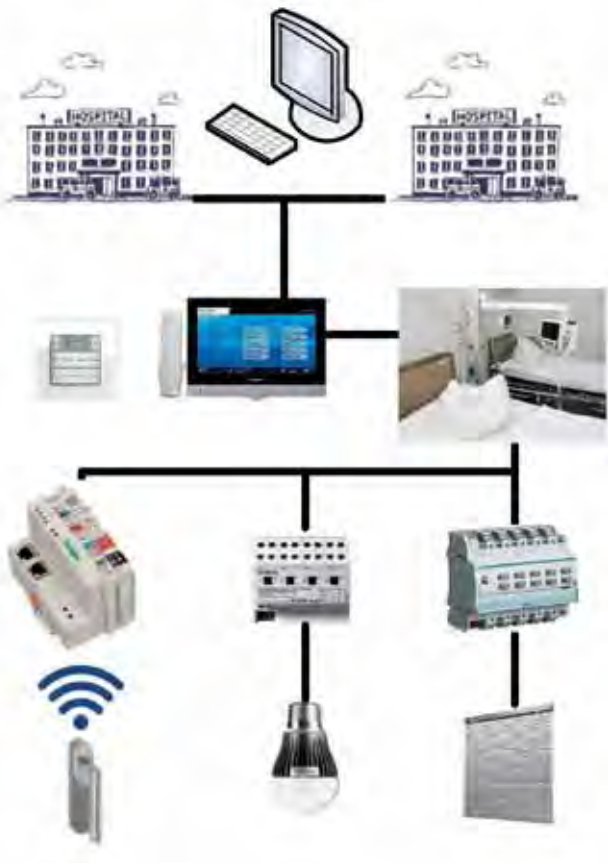
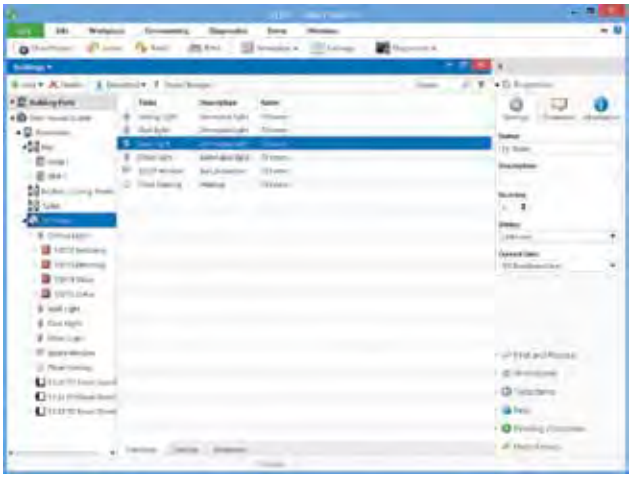
Control technology for distributed properties in hospitals



The new ETS5: one tool for ALL media

Shanghai, Sydney, Buenos Aires, Los Angeles, London, Berlin – all over the world, building control engineers use the product and manufacturer-independent Engineering Tool Software (ETS) to increase the energy efficiency of buildings. This standardised tool is currently available in 17 languages and can be used for the installation of more than 7,000 KNX certified devices from almost 350 different manufacturers. In order to satisfy the latest technical, economic and global demands, the KNX Association has now completely redesigned its Engineering Tool Software (ETS) and added numerous functions. ETS5, the beta version of which is being officially unveiled at light+building in Frankfurt (Germany) – the world's leading trade fair for architecture and technology – is the first tool suitable for the quick, simple integration of wireless KNX components. Moreover, the database management was considerably simplified, and its new dongle allows greater flexibility in handling projects. ETS5 is expected to be available from October 2014.

The new ETS5 is the KNX Association's answer to the demand for greater user-friendliness, more powerful technology, and bigger cost savings. The popularity of applications based on bus technology has increased many times over. KNX installations are now more extensive, and functions in commercial as well as intelligent residential buildings have become more diverse. KNX solutions should be able to handle major current challenges such as the need to make buildings as energy-efficient as possible. The new version of the tool offers numerous features for the convenient, cost-effective integration of KNX systems. Its top improvements include:



The ETS5 interface: buildings, devices and Group Addresses are all visible at a glance for optimised workflows

5ETS

The new ETS5 will be available from October 2014.

- Integration of KNX radio frequency (KNX RF) components from a wide range of different manufacturers
- USB dongle for easier handling with 4 GB of storage for user data
- No database, hence faster data imports and exports
- Improved user interface with more room for key functions
- Even more performance when used as a 64 bit application
- ETS5 and the older versions ETS4 and ETS3 can be installed together on the same computer

Wireless components now easier to integrate

With the new ETS5 it is now possible for the first time to work with ALL media without exception: not just wired media (bus line, Powerline and Ethernet/IP), as previously, but now also wireless radio frequency (KNX RF) media. It is therefore possible to use ETS to parameterise and set up KNX RF devices from various manufacturers in exactly the same way as KNX TP1, PL and IP devices – a major advantage when upgrading existing buildings with KNX.

No database for a leaner, more flexible program

Numerous improvements have been made to the IT system environment, simplifying installation and making ETS work faster. One key change in this respect in ETS5 is the absence of a database. This speeds up the import and export of the data.

Storing the latest project data in a dongle

Dongle licences are very popular among professionals because they mean that ETS can be used on more than one computer. A new dongle is being launched on the market at the same time as ETS5 that is smaller than the previous dongles and contains 4 GB of storage for user data. This will simplify handling and allow more flexible project administration.

64 bit technology makes big projects small

In contrast to its predecessor, ETS5 can now also function as a 64-bit application. This means it offers full power using all system resources, plus increased speed. The resulting time savings are particularly beneficial in the case of large projects. For the first time ETS5 and the previous versions ETS4 and ETS3 can be installed together on the same computer.

ETS5 is expected to be available from October 2014, in three different versions: ETS5 Demo, the free version for mini-projects; ETS5 Lite, the version for small and medium-sized projects; and ETS5 Professional, for projects of all sizes.

Contact: *www.knx.org.*

New ETS Apps

You can find all ETS Apps at www.knx.org → Software → ETS Apps → Features

Nautibus electronic GmbH

Eldoc

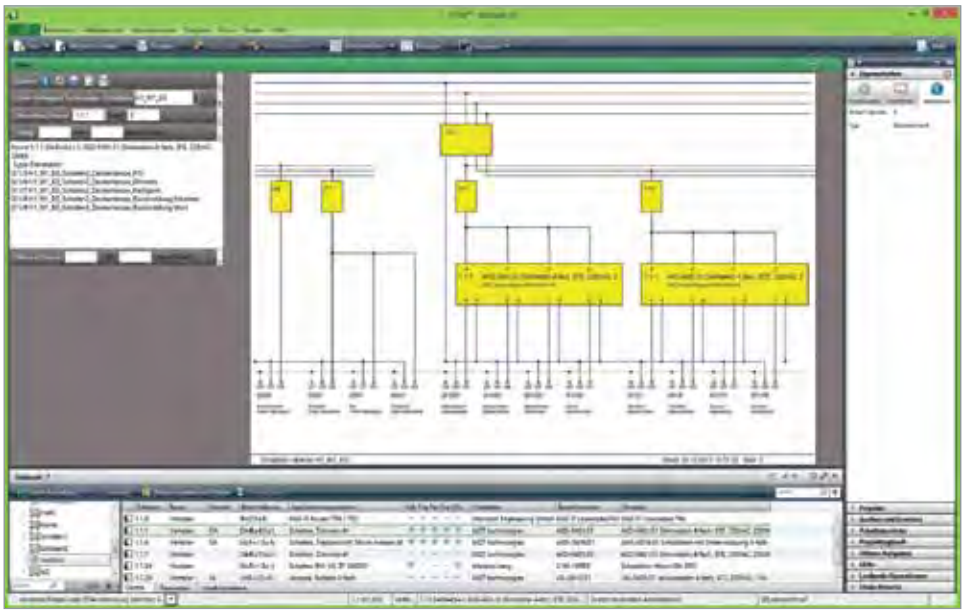
With ETS Apps from the floor plan to the distribution schematic diagram

With the ETS App Elplan the floor plan was introduced in ETS a year ago. While you put sockets, lights, blinds and heating circuits to the floor plan, Elplan creates automatically ETS programming.

Group Addresses are generated and assigned to the preset KNX devices, such as actuators and tactile sensors. So automatically is created a complete and well-documented ETS project.

From Elplan there is now an update to version 2 with an additional Group Address scheme and with advanced capabilities such as feedback, power actuators with current measurement and counter functions, individual room control and central groups. In addition, the preselection of the device has been simplified and summarised in a table. For beginners is now also the demo version "Elplan_Demo" in the KNX Online Shop available.

Really exciting is the latest innovation in the ETS Apps.



It is an automatic documentation generator called Eldoc, which can print out a detailed project documentation. The documentation includes parts lists for the cabinets, Cable lists with lengths and terminal numbers, lists of fuses, switch labels for fuses and KNX devices and automatically generated circuit diagrams for the distribution.

With Elplan and Eldoc, ETS is a complete and largely automated planning tool for electrical installation, which can save you a lot of routine work. The special feature of this solution is that all entries are made in ETS and all the data will be saved in the ETS project. You do not need any external programs or CAD systems and no file export or import. All input options of the ETS remain fully usable and your project is always on the actual state. Further information in the KNX Online Shop.

You can also see print samples and projects as well as the operating manuals for the Apps on www.nautibus.de.

Contact: *www.nautibus.de*

New: KNX Standard 2.1

KNX Association is proud to announce the new release of KNX Standard. After four years of thorough work of KNX technical working and expert groups the KNX Standard 2.1 has been published. The most important extensions and novelties of the new release are:

- KNX Data Security and Security at KNXnet/IP level
- New Profiles for the true support of Radio Frequency in ETS
- Making KNX RF more robust and future proof via the Multi extension
- New standardised KNX *Datapoint Types* for new application domains (e.g. DPT Prioritised Scene Control for load management)
- *Flexible E-Mode* Channels – an innovative way of allowing to extend the current E-Mode Channels with additional Group Objects and parameters

- *Functional Block Profiles*, introducing the possibility for manufacturers to choose between different flavors of common application descriptions
- *Master Reset* and *Configuration Signature*, allowing manufacturers to reset their devices to predefined factory states respectively allowing a counter to keep track of changes in device settings
- Bringing existing mask versions to the *IP* level (e.g. Mask 57B0h)
- A completely overhauled *Coupler 2.0* model, of which forthcoming KNX TP1/RF Media couplers will be the first realizations
- And so many more

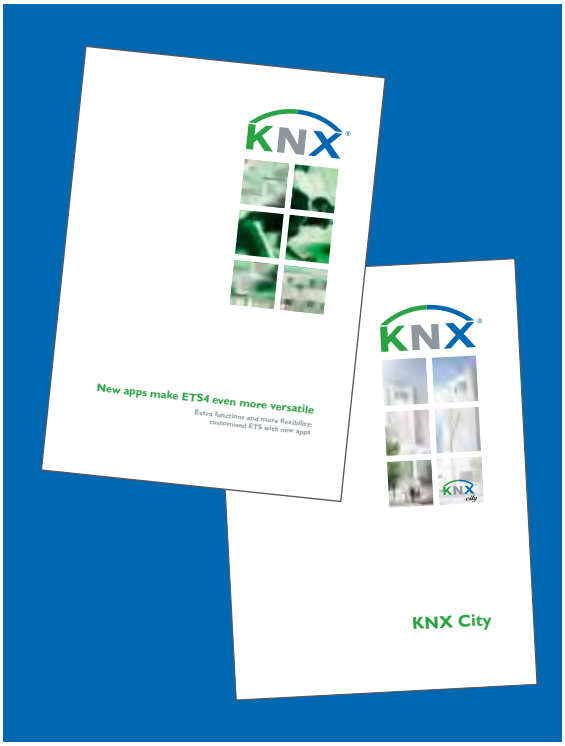
The KNX Standard 2.1 is free for KNX Members or can be ordered via the KNX Online Shop.

ETS Apps and KNX city: Two new flyers for KNX

The flyers are already available in two languages: English and German.

The ETS Apps flyer informs you about current ETS Apps by KNX Association that can buy in the KNX Online Shop. Moreover there will be a leaf inlay, which informs about new future ETS Apps.

The KNX city flyer 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 to as a systems approach.



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

www.knx.org

New: KNX RF S-Mode

Worldwide KNX is known as an open and above all compatible system: KNX devices, when bearing the KNX Trademark, are interoperable and compatible to one another, even when emanating from different manufacturers and from different application domains.
The emphasis of use of the KNX Radio Frequency medium (KNX RF), which was originally defined as a new KNX medium back in 2001, was predominantly smaller-scale installations and renovation projects. Because of this, the focus at that time was not on configuring these products by means of the ETS (S-Mode): the manufacturers rather opted for configuration of the products via easier methods (E-Mode – without the need for a PC tool). Products were thus launched, which could only be integrated into ETS projects via manufacturer specific Media Couplers.
In 2012, the KNX Executive Board decided that it should also be possible to integrate KNX Radio Frequency devices via ETS. However, during development it was soon established that the working procedures for KNX E-Mode and KNX S-Mode are so substantially different, that a direct support of KNX RF E-Mode in ETS would not be possible, without causing a complete rupture in the known ETS work flow.
A technical reason for this is that a KNX RF E-Mode sender adds a device specific KNX Serial Number to the known Group Address: this combination moreover needs to be known in the receiver. When the sender is replaced, all KNX Serial Numbers in all receivers need to be adjusted: this was developed in this way in the past, as manufacturers also wished to be able to develop unidirectional senders.

Weinzierl TP1/RF Coupler 680

MDT Glass push button

For the above reason, it was therefore decided to allow the use of the known KNX S-Mode system profiles also for Radio Frequency: for this, the needed extensions to the KNX Standard were developed in the technical KNX Working Groups, which are now supported by the ETS5. KNX RF S-Mode devices can now be integrated in the same way as TP devices in ETS5 projects. Thanks to the newly specified Media Coupler, the connection between TP and RF installations is moreover no longer manufacturer specific. Similar to the support of KNX PL devices, neighboring installations can be separated by different Domain Addresses.
In order to distinguish KNX RF E-Mode from KNX RF S-Mode devices, labelling of KNX devices was made stricter: on new devices, the indication of the configuration mode (S- or E-Mode) is a must, as KNX RF devices only supporting E-Mode can still only be connected to S-Mode devices via manufacturer specific interfaces. When devices however support both S- as well as E-Mode, they can first be used in smaller-scale installations, which can then later be extended to bigger KNX installations via ETS.

MDT Shutter Actuator RFJAL1UP01

MDT Switch Actuator RFAKK2UP01

New Members

GERMANY
Aumüller Aumatic GmbH

Aumüller Aumatic GmbH develops, produces and distributes systems for both natural smoke and heat exhaust as well as systems for controlled natural ventilation. The systems consist of linear, chain and electric spindle drives as well as control and regulation systems and sensors. Their solutions in the area of powered smoke and heat extraction are installed worldwide as the main system in public buildings. They offer secure, sustainable, comfortable and visually appealing automation solutions for any type of window.

Contact: *www.Aumueller-GmbH.de*

SAUDI ARABIA
Automated Buildings Company

Automated Buildings Company (ABC) was founded in Riyadh, Saudi Arabia in 2010 and is a distributor for several KNX manufacturers in Saudi Arabia. In addition, the company is a system integrator for medium to large-sized KNX projects. It specialises in integrating HVAC components of all brands and types with KNX. Moreover, the company has a strong experience in localising KNX visualisations for Arabic-speaking users, which has led to several clients choosing KNX over other systems. Now the company is ready to offer its own KNX solutions on the market.

Contact: *www.abc.sa*

GERMANY
CM Security GmbH & Co. KG

In the 40 years since its founding in 1970, CM Security GmbH & Co. KG has accumulated a wealth of expert knowledge of the security market in Germany, Austria and Switzerland. Its headquarters is located in the South of Germany, close to Stuttgart. It is a manufacturer of intruder alarm control panels and related electronic security products. The company specialises in VdS-certified products. One of the new directions the company has recently started moving into is home automation. Over the past few years CM Security has sold more than 10,000 control panels, both as an OEM and through direct sales.

Contact: *www.cm-security.com*

ITALY
Consorzio Terranuova

Consorzio Terranuova was established in 2010 on the initiative of 10 SMEs, with the aim of creating a centre of excellence for the development, manufacturing and marketing of products for the electronics sector. Consorzio Terranuova is capable of offering a full range of technical solutions dealing with every single aspect of a project – from defining the specifications to the finished product. Their skill sets encompass the following areas: design of analogue and digital electronic control and power systems, design of PCBs, design/manufacture of cabling, design/manufacture of windings (coils and transformers), design and implementation of mechanical engineering solutions (from IP20 to IP67), checks and certifications. Using this know-how, the "Smart Light for Building" product line was born.

Contact: *www.consorzioterranuova.it*

UK
CP Electronics

CP Electronics is a design and manufacturing company based in London, United Kingdom. Its commitment to designing high performance and top quality lighting detection products has allowed it to become the leading UK lighting control company. Its portfolio extends from stand-alone PIR and Microwave technology to complex network control systems integrated by front end PC. It recognises the need to extend its portfolio with KNX products and have developed a range of detectors suitable for use on the KNX platform. CP Electronics is committed to product development taking into account ISO 9001 and 14001 standards.

Contact: *www.cpelectronics.co.uk*

SWITZERLAND
EMU Electronic AG

EMU Electronic AG is a leading manufacturer for three-phase current meters, data loggers and energy monitoring systems. Their "EMU Professional" three-phase energy meters are available with a KNX, M-Bus, LON, Mod bus or TCP / IP interface. They offer their clients a complete solution from energy-meter data loggers – Energy monitoring portals to billing and a user-friendly app. Benefit from their free energy monitoring platform www.smart-me.com. EMU Electronic AG is your partner for high quality energy meters and innovative energy monitoring solutions. Quality that pays – Made in Switzerland.

Contact: *www.emuag.ch*

ITALY
FEEL s.r.l

FEEL s.r.l is an Italian owned and operated company in the electrical and electronic equipment industry. It has a worldwide reputation for guaranteeing its customers extremely high product quality in terms of aesthetics and the use of new materials, such as 1.2 mm thick AISI 304 STAINLESS steel surface featuring a Scotch-Brite finish and anti-fingerprint treatment, in addition to 24-carat GOLD.

Contact: *www.feel-italy.it*

INDIA
GM Modular Pvt. Ltd.

GM was founded in the year 2002 and has redefined switch manufacturing in India. GM believes in constant innovation and is market leader in switches and other electrical home accessories. GM's innovations are the result of a strong R&D team, further complimented by an equally dedicated and capable product design team. State-of-the-art manufacturing facilities spread across the country ensure international quality of each and every product that carries the GM logo. GM currently makes the best touch switches based on tact and touch technology in India. These switches are mainly for lighting and drape controls, designed to be a part of a larger Home Automation System.

Contact: *www.gmmodular.com*

CZECH REPUBLIC
GORDIC spol. s r. o.

GORDIC spol. s r. o. is a privately held company with headquarters in Jihlava, Czech Republic. The company has offices in such major cities as Praha, Brno, Ostrava and has a network of regional distributors. The company is also active in Slovakia and several other East European markets. GORDIC is an independent software vendor and a leading provider of the ERP software GINIS, as well as specific IT solutions and services for municipalities, public sector and central government bodies across the Czech Republic. In total GORDIC has more than 6000 institutional customers in the Czech Republic. Gordic is a solution partner of Oracle, CA, Microsoft, IBM and more main IT vendors. It holds several ISO and security related certificates.

Contact: *www.gordic.cz*

AUSTRIA
Heliotherm Wärmepumpentechnik Ges.m.b.H

Heliotherm is one of the leading heat pump manufacturers in Europe and has been delivering technical sophistication for over 25 years. Quality and reliability make Heliotherm the pioneers in the field of heat pump technology. In 1994, the first modulating heat pump was presented and since ten years the heat pump systems of Heliotherm can be controlled and optimized online. The company has its headquarters in Langkampfen (Austria) with a factory and research and development center for heat pumps. In this facility, the development focuses on innovative high-efficiency heat pumps for heating, cooling and hot water in new and renovated buildings. With a holistic building view and an intelligent integration of the heat pump in the building system technology with KNX, efficiency and comfort can be increased significantly.

Contact: *www.heliotherm.com*

NEW ZEALAND
Hunza Productions Ltd

Hunza Productions Ltd, established in 1990, is a manufacturer of high quality outdoor and landscape lighting products. Its headquarters are in Auckland, New Zealand, where their in-house designers work to produce innovative, contemporary designs manufactured on site from the finest AISI 316 stainless, copper and aluminium materials. Hunza Luminaires are environmentally sustainable not only because they use the very latest low energy demand LED technology, but also because of the way in which they are designed and manufactured. LEDs require an electronic driver to operate them, which thus gives the opportunity for infinite control by the KNX protocol to interface the luminaires with home and building automation systems.

Contact: *www.hunza.co.nz*

SPAIN

Ingelabs S.L. (Iddero)

Iddero is a manufacturer of innovative, high-quality products with a focus on the visualisation and control of KNX installations. The current product line includes a family of touch panels in several sizes. Visualisation and control is performed using a simple, user-friendly interface. All models are IP-enabled and incorporate an embedded web server that can be accessed from a smartphone (e.g. iPhone or Android), tablet, or PC running a standard web browser. Models with A/V capability can also be used as indoor monitors for compatible video door phone systems and for the visualisation of IP cameras. The panels also support a wide range of additional functions such as time schedules, scenes, alarm monitoring, logic functions, GSM and e-mail notifications, and much more.

Contact: *www.iddero.com*

ITALY

ISER Tech srl

ISER Tech srl bases its work on the passion for new edge technologies with a focus toward a better future. In an increasingly competitive world requiring quality and reliability, ISER Tech satisfies the needs of its customers by offering cutting-edge products that meet the standards required from the market. Today the company is leader in the areas of transport, tele-control and smart city, offering solutions for monitoring, control and diagnostics of plants and systems. In the transport sector, ISER Tech has achieved important results in railway signaling applications. In the sector of tele-control technology the interest is mainly focused on plant/environmental/vehicular monitoring and diagnostic systems. In the smart city sector, the focus is on remote meter reading, traffic monitoring, home automation and integrated solutions.

Contact: *www.isertech.it*

CHINA

Shanghai Kanontec Electronic Technology CO., Ltd

Kanontec is an efficient and innovative company providing solutions and products in the field of architectural design and home & building automation. It focuses on developing and producing professional KNX related gateways and actuators. With the aim of offering solutions in the wide range of fields such as smart building, it keeps one thing in mind: to solve the customer's real needs and to supply high cost performance products.

Contact: *www.kanontec.com*

CANADA

KeenTech CORP.

Keen Tech is a designer, developer and manufacturer of electronic systems. Its focus is on intelligent solutions for control and management of residential and commercial buildings. KeenTech provides the best services to control and automate buildings with different standards and high quality products from various manufacturers. KeenTech provides home automation services based on KNX and S-BUS standards for such applications as lighting control, HVAC control, motorized curtain control. KeenTech also produces modules for parking management systems. Keen Tech has decided to join KNX to design and produce different hardware and software modules based on the KNX standard for home and building automation.

Contact: *www.keentechco.com*

KNXtoday wants to hear from you!

KNXtoday is an international trade magazine for KNX home and building control comprising an online magazine and email newsletter. It covers all things KNX-related.
We want to hear from you! Send us news about your KNX products, projects, tools, experiences, events, training courses, research etc, as well as any suggestions for articles, case studies and features. If you have any KNX presentations, videos, whitepapers, apps, that you would like to share, then we can add these to our resources section. And we want a picture of you, wherever you may be, with the KNX logo and a smile for our 'Where is KNX?' gallery.
You can register for a free KNXtoday newsletter subscription online, and follow us on Twitter, LinkedIn, Google+ and Facebook.

www.knxtoday.com • info@knxtoday.com • 0044 20 8761 1042

SPAIN

LABIO

LABIO is a new KNX member, is based in Barcelona and provides a range of KNX products for smart homes, smart buildings and smart cities solutions. The company markets devices worldwide in order to promote the use of the KNX standard from the very small project to the larger ones. LABIO's main goal is to ensure the use of an automation system in every house or building as a natural evolution of the electrical installation.

Contact: *www.labioknx.com*

TURKEY

Mavili Elektronik Ticaret ve Sanayi A.S.

Mavili Elektronik Corporation designs and manufactures fire detection systems and related field control modules. Its Intelligent Analogue Addressable Fire Detection system monitors the status of various units, such as smoke detectors, heat detectors, multi-sensors (smoke + heat) detectors, gas detectors, fire alarm call points, smoke damper control units and multi binary units. On the basis of user-defined scenarios the Intelligent Analogue Addressable Fire Detection system can control various units, managing for example the output of the smoke damper controllers, the output of the multi binary units, public announcement systems, sounders and sirens. Mavili would like to make its product portfolio compatible with KNX. In order to achieve this goal, Mavili is planning to design a communication interface module to link its fire detection system with KNX.

Contact: *www.mavili.com.tr*

SLOVENIA

Menerga d.o.o.

Menerga is a Slovenian company that develops digital regulation and control systems and building management systems for both non-residential and residential buildings. It approaches the market with a user-friendly software (supported by the KNX protocol) for mobile platforms. Menerga is based in the Adriatic Region, but will be entering the whole EU market in the near future. Its project portfolio varies from large luxury hotels to industrial buildings, but also private villas.

Contact: *www.menerga.si*

ITALY

Omniabit s.r.l.

Omniabit s.r.l. has started its business as a software house in 2002 with the aim of developing and producing software/hardware products and systems to create innovative solutions both in the professional audiovisual as well as in the home automation market. The company was born as a spin-off of one of the main system integrators in the professional Italian market with a thirty-year experience in the audiovisual market. The ever faster convergence between telecommunication, computer science and audiovisual, made Omniabit become a solution service provider for multimedia and interactive communication. Omniabit's new products, such as the flagship one Juicy iAX, are therefore designed to communicate with other home and building devices in order to guarantee the interoperability between different devices via the international KNX standard.

Contact: *www.omniabit.com*

HUNGARY

P5 Kft

Founded in 1996, P5 Kft is a developer and manufacturer of home automation components with almost 20 years of experience. It specializes in multi-channel switch, dimmer and shade control modules. Its product portfolio consists of DIN rail mountable, 3 – 8 channel modules with proprietary bus or Ethernet connectivity, each offering heavy duty outputs and optically isolated digital inputs. The inputs can be used for direct control of the outputs or as independent binary inputs. The products are sold to system integrators and distributors worldwide. They have been integrated with controllers from many well-known vendors. As a European manufacturer, P5 decided to focus more on local demand and start leveraging all the advantages the KNX platform offers. As a first step, it would like to expand its well-known FutureNow product line with KNX devices implementing the KNXnet/IP standard.

Contact: *www.futurenow.hu*

DENMARK

Servodan A/S

Servodan is a well-known Danish company established in 1958 and located in Sønderborg near the German border with 50 years of experience and knowledge. Servodan employs approx. 50 employees and manufactures unique solutions within the range of lighting control, door annunciating systems and various electrical equipment. Their products are sold throughout the world, mainly through distributors. Now the KNX market will also benefit from their extensive knowledge within lighting control and their high quality movement and presence detectors. Within the last 10 – 15 years, Servodan has been a valued partner in a large number of projects, where lighting control has created a better working environment for the users while saving a large amount of energy as well. As per November 1st, 2008 Belgian Niko Group has taken over Servodan A/S.

Contact: *www.servodan.dk*

CHINA

Shanghai FU CHENG Trading Co., Ltd.

FU-CHENG Intelligence was originally founded by Shanghai FU-CHENG Trading Corporation in January 1999. Shanghai FU-CHENG Trading Corporation has been authorised by ABB as an official distributor of intelligent building control systems in China. They were also one of the first distributors of KNX intelligent building control systems. Since 2001, Shanghai FU-CHENG has successfully completed several outstanding, high-profile projects. FU-CHENG is composed of a core Executive Committee and Development, Marketing, Sales and Technology departments. FU-CHENG Intelligence will continue to expand their business through the Yangtze River Delta Region, the economic zone on the west side of the Taiwan Strait, and the Hong Kong and Macao Regions.

Contact: *www.fczhineng.com*

UAE

Shifra Smart Solutions

Shifra is a Home and Building Automation solutions provider operating out of the Dubai Internet City. Shifra Smart Solutions is a market leader in creating cutting edge technology with a focus on bridging distributed multi-zone multimedia with sophisticated control systems for lighting, appliances, curtains, security, air conditioning, IR systems. The Shifra Research and Development team is made up of a highly talented pool of individuals that has contributed greatly to the development of Smart Building technologies since the start of development in 2002. The team is dedicated not only to bringing the best solutions and technologies to the region, but also to develop solutions that match the changing lifestyles of customers as well as the technologies they use.

Contact: *www.shifrasmartsolutions.com*

CHINA

Systec Intelligent Building Technology (Tianjin) Co. Ltd

SYSTEC Intelligent Building Technology (Tianjin) Co. ltd, was incorporated in 2009. As a company that orginates from Germany, it provides and specializes in intelligent system solutions for security, comfort and energy efficiency in living and work places. It delivers intelligent system solutions by consulting, designing, sourcing, commissioning and service and has finished some notable home and building automation projects all around China. It is dedicated to making life and work environment safer, more comfortable, more energy efficient and will help create an optimal lifestyle with high-end intelligent system solutions.

Contact: *www.systechn.com*

INDIA

Tejas Innovative Solutions pvt ltd

Tejas Innovative Solutions pvt ltd is a design company with a focus on developing standalone products in the consumer electronics field. The company is currently embarking on working with the KNX standard. To meet growing demand for integrated homes, the company plans to offer KNX-compatible and certified products. For the home automation market the company intends to develop primarily electrical and electronic switches and lighting control devices.

Contact: *www.tejasinnovative.com*

BELGIUM

Tense Top Design Switches

TENSE is a recently-established Belgian designer & manufacturer of switches, OLED switches, motion detectors and socket surround plates in advanced designs. Its high-quality touch products are stylish, easy to use, very reliable and designed with passion. Only the best technologies and newest raw materials are used to create the unique TENSE products. All of the company's KNX products support a broad range of application profiles and are easy to programme with ETS. The firmware can be reprogrammed via the bus, allowing it to be adapted to future applications. TENSE is in the process of becoming an ISO 9001 certified company, and always aims to be one step ahead of the competition and to exceed its customers' expectations, offering top quality, innovative R&D, unbeatable service, timely deliveries and professional export handling.

Contact: *www.tense.be*

ITALY

Think Simple S.r.l.

Think Simple S.r.l. is a newly-established company based in Pordenone and Milan that launched the revolutionary Vitrum collection on the international market in October 2010. Vitrum represents the new generation of switches, in which styling, technology, ergonomic design and sustainability come together as never before. At the heart of Vitrum is an illuminated touch-sensitive circle that is used to control lights, alarms, air-conditioning systems, roller shutters and video entry systems. On the inside it is the bus core, which revolutionises the installation and use of the product. Vitrum also comes with the EcoSwitch function, which reduces energy consumption, and EcoWiring technology, which makes installation in new buildings simpler and considerably more economical. The main objective of Vitrum is to transform traditional switches into smart products that are easy to use and uniquely styled.

Contact: *www.vitrum.com*

CHINA

Tianjin Peiying System Engineering Co.,LTD

Tianjin Peiying System Engineering Co.,LTD is mainly engaged in professional integration of intelligent design, system development, and professional construction technology. The company has more than ten years of experience as a professional and technical R&D team. Since the company joined KNX Association, it combines the technology of KNX automation control with communications technology, video surveillance, alarm prevention, building intercom and audio playback system to develop featured products. The company's R&D team develops KNX applications for multimedia hotel management, energy management control, community lighting management and multimedia smart home management. Now, the first multimedia active smart home management system has been launched on the market.

Contact: *www.peiying-cn.com*

CHINA

URMET ELECTRONICS (HUI ZHOU) LTD

Urmet was established in Italy in 1937; since then the company has been focusing on design, development and marketing of products and systems for building automation and security. Building automation, hotel automation, telecommunication, energy, intercom, HVAC, CCTV, anti-intrusion and fire-detection systems are some of the solutions for living spaces offered by Urtmet, giving the user peace of mind and security. By using the latest technology and user-friendly automation, everyday solutions are made even easier. Urmet has more than 50 branch offices spread over more than 100 countries all over the world with a dense sales network.

Contact: *www.urmet.cn*

ITALY

Vemer SpA

Vemer is an Italian company that has been present for more than 20 years on the market of measurement and control of main electrical parameters and automatic digital control devices. In these fields, it provides many devices suitable for installation in different environments (home and building, electrical panels, industrial applications). The company plans to provide specific KNX solutions, based on wired bus communication, implementing the functions that are already part of its core business. In detail, Vemer will provide KNX connectable products in the following ranges:

- Home and building climate control (thermostats, programmable thermostats, relative humidity/air quality control devices)
- Automatic control for home and building installation (time switches, twilight switches, IR switches, timers, gas detectors, gsm interfaces)
- Energy monitoring and saving (power and energy meters, load shedders)

Contact: *www.vemer.it*

New KNX Products

ABB Stotz-Kontakt GmbH

KNX Alarm Panel GM/A 8.1

With the new KNX Alarm Panel GM/A 8.1 ABB presents the first security system that is compatible with both the international KNX standard (14543-3-x ISO / IEC) and the international standard for alarm systems (ISO / IEC 62642). Therefore the Alarm Panel GM/A 8.1 is ready for a worldwide use and expands business opportunities of more than 40,000 KNX partners in 125 countries. The new system is the perfect solution for projects ranging from simple to high security requirements.

Contact: *www.abb.com/knx-alarm*

APRICUM d.o.o.

MEC IP – KNXnet/IP Routing & Tunneling device

The new MEC IP KNXnet/IP Routing & Tunneling device from Apricum is the third coupling device with the possibility to temporarily disable filtering of messages by pressing a button. This eases commissioning of the system. The temporary access to other lines is possible without download from ETS. In addition, faulty communication on the bus is indicated through LEDs on the device. MEC IP can be used as line- or backbone coupler and provides a data connection between the upper KNXnet/IP line and the lower TP KNX bus line. It also provides with the tunnelling protocol a connection point for ETS to enable commissioning and monitoring. Also available as OEM version.

Contact: *www.apricum.com*

Automation Specialists India Pvt. Ltd.

KNX Flush Mounted Actuator

Automation Specialists India Pvt. Ltd. (ASIN) has recently launched the miniature flush mounted switch/blind actuator. It has four independent switching outputs with a maximum capacity of 10 A. It can control four lighting circuits or two blind control motors. It provides a true retrofit application in lieu of its flush mountable and miniature features. The inbuilt logic engine will enable to provide logical control if there is a requirement. It also features eight binary inputs and four LED outputs making it the most desirable switch actuator.

Contact: *www.asinindia.com*

Agentilo GmbH

Secured Cloud Visualisation

The new AGENTILO CLOUD offers secured visualisations on the Internet. Multiple AGENTILO MOBILE installations are connected to a web portal, which creates a secured VPN (Virtual Private Network) over public connections and also secures access from mobile devices on the go. The ESI Enterprise Content Management System (http://www.ityou.de) is used as the web portal. Equipped with additional management functions for AGENTILO MOBILE, ESI is a main centre for private and commercial applications, multiple stores and regional solutions. The system will be presented at l+b 2014.

Contact: *www.agentilo.com*

APRICUM d.o.o.

UIM RF Interface

The new UIM RF interface perfectly combines high-end technology, functionality and flexibility. The innovative device enables data connection between PC and the KNX RF bus – not only for ETS – for commissioning of the bus devices, but also for visualisation, protocolling and diagnosis. Any software based on FALCON communicates via flexible common EMI protocol through the UIM RF Interface with the devices connected. The intelligent USB interface supports long telegrams (max. 228 bytes) as well as Raw Frames – a special diagnostic mode.
Also available as OEM version.

Contact: *www.apricum.com*

Automation Specialists India Pvt. Ltd.

KNX Motor Controller

Automation Specialists India Pvt. Ltd. (ASIN) has introduced the only true KNX enabled "silent" motor controller. This flush mounted KNX device is primarily used for ceiling fan applications. It has a built-in fuse and can also be used for leading edge phase dimming up to a maximum of 1 A. It is also enhanced with local binary inputs for varying speed. The fan speed can be controlled via various KNX control inputs. The miniature size allows it to be retrofitted with any conventional installation.

Contact: *www.asinindia.com*

b+b Automations- und Steuerungstechnik GmbH

FIAVis App Commander

Available for iOS, Android and Windows: the FIAVis App Commander offers a flexible Smartphone/Tablet user interface for the EIB/KNX system. Place and configure your controls with a comfortable WYSIWYG editor. The 400 included graphical symbols ensure a modern design, own symbols and color schemes are usable. Test your project by just one mouse click, and transfer it as easily into the App Server (KNX SPS/ FIAVis). All mobile devices are doing an automatic synchronisation to the server by network. Unauthorised access can be prevented by the integrated password protection. The FIAVis App Commander can be downloaded for free from Google Play and the Apple iTunes App Store.

Contact: *www.bb-steuerungstechnik.de*

b.a.b.-technologie GmbH

BAB AudioModule

New extension modules for the eibPorts are offering new scenarios. The new "BAB AudioModule" is a network streaming client for music data. Designed as DIN-rail mounted device it either controls speakers directly (2 x 20 W), or it can be connected to an existing audio system. The music data is streamed via a central music server (e.g. pre-configured NAS drive). Thanks to the eibPort, music control is implemented into the visualisation in minutes. In this way a real multi-room control is built up extremely easy.

Contact: *www.bab-tec.de*

BEG Brück Electronic GmbH

The new KNX/DALI Gateway IP-N

B.E.G.'s new KNX/DALI Gateway IP-N not only enables the management of DALI-lights but also of DALI-emergency lights. Via IP access, all connected DALI-components are displayed in a well-arranged manner, which also enables the system to be controlled via mobile devices. Besides the required tests of emergency lights and information concerning possible malfunctions of DALI-lights, light effects can be programmed by a plug-in. By means of the plug-in, the required tests of emergency lights and possible malfunctions of DALI-lights can be indicated and also light effects can be programmed. 825 group objects are available for controlling the up to 64 lights.

Contact: *www.beg-luxomat.com*

b+b Automations- und Steuerungstechnik GmbH

KNX SPS

The KNX SPS is the follow-up of the b+b EIBSPS, the successful programmable logic controller for EIB/KNX systems. It is 100% compatible to existing EIBSPS projects, and furthermore it offers many new functions: easy configuration via the intergrated Web server, process image of all 65535 KNX group addresses, authorised Email transmission, 16 simultaneous network connections to building management systems/ visualisations, faster project downloads, password protection, direct integration into KNXnet/IP backbones, IP Gateway functionality for programming via ETS and a full App Server for Android/iOS devices (FIAVis App Commander).

Contact: *www.bb-steuerungstechnik.de*

b.a.b.-technologie GmbH

BAB AppModule and BAB ScriptModule

For special appliances the "BAB AppModule" and the "BAB ScriptModule" are available. This device offers the opportunity to choose solutions from the "BAB AppLibrary", while the latter is offering a platform for ambitious users to develop own scripts. The devices are connected by the eibPorts' protocol and are integrated seamlessly into the facility. The "BAB AppLibrary" offers applications like controlling projectors using "PJ Link" protocol, accessing of Russound audio systems or the use of DALI-gateways and is steadily extended. By this means the integration of third-party systems will not have any limits anymore.

Contact: *www.bab-tec.de*

BEG Brück Electronic GmbH

PD2-KNX-FC Version 5.0

B.E.G.'s KNX occupancy detectors with application 5.0 are now provided with the light channel and three further freely programmable channels. Using the KNX remote control, set values and lag times can be re-adjusted and the ETS programming mode can be activated. The most considerable improvements, however, concern the light regulating channel. For example, the new application enables the activation of many special functions, i. e. the corridor function, or (de)activating LEDs. For an optimum use of the lamps, the individual burn-in time indicated by the manufacturer can be freely adjusted. Therefore, the application 5.0 offers everything for an optimal lighting control.

Contact: *www.beg-luxomat.com*

Berker GmbH & Co. KG

Berker.Net – beautiful, innovative and fully integrated

The new electronics system replaces three previous systems that have so far been separate – Funkbus, RolloTec and BLC – offering a wide spectrum of functions, ranging from non-networked applications to wireless KNX-based solutions which are also compatible with KNX two-wire solutions. This makes the system ideally suited for new buildings and retrofitting existing installations. The benefit of this common platform solution is that it can be applied by any electrical engineer, irrespective of their level of expertise. In the course of developing Berker.Net, the application modules were updated to enable all operating components to speak the same design language. All Berker.Net components can now be supplied for the switch ranges S.1, B.3, B.7, Q.1, Q.3, K.1, K.5, R.1 and R.3.

Contact: *www.berker.com*

BILTON® International GmbH

BILTON SXT-series with integrated power supply

At BILTON International, innovation is a tradition. A perfect example is the new SXT-series, designed by the specialist for linear lighting and LED-light management. The new control devices, with signal variants KNX and EnOcean, already contain the power supply. This makes the SXT-series one of the most compact and efficient LED-dimmers currently available: they offer an efficiency of more than 90 % (cos 0,92). And there's more. The SXT-series features a special Master/Slave-Function (EOS), which enables the master device to program 20 extra connected slave devices.

Contact: *www.BILTON.at*

BMS – Building Management Systems

KNX Ultrasonic wind sensor

With the Ultrasonic wind sensor BMS offers a KNX-sensor for protecting shading devices in residential houses and functional buildings of any size. The capture of wind speed and wind direction is done by a wear-free ultrasonic measuring system. Thus broken vanes or bearings destroyed by frost on wind rotors belong to the past. The measured values and the security commands are directly sent to the KNX-bus. To protect the shading devices three limit values can be parameterised and assigned to the security objects.

Contact: *www.bms-solutions.de*

BILTON® International GmbH

LED-KNX-control device for your control cabinet

A big planning effort and huge space requirements during the installation of KNX LED-light management are now a thing of the past, due to the innovations developed by BILTON International. The new LED-KNX-Dimmer Steel REG has been especially designed for installation in a control cabinet. This ensures an optimal accessibility during and after installation. And this in the high BILTON quality "Made in Austria".

Contact: *www.BILTON.at*

Bleu Comm' Azur EURL

HOTELLO App for Hotel Customer

Imagine: You arrive late in the evening at your hotel; entrance and reception are already closed. However, you've got a mail with a link on your smartphone. You activate it and suddenly you are able to open the hotel door and also your reserved hotel room with a simple click. That's not all: You may control lighting, curtains, heating/air-conditioning and even the TV and the music in your hotel room. All that is possible with your personal smartphone and the new "HOTELLO" App, based on the well known "KNX-proServ" controller. And the very best: The system is absolutely easy to retrofit in every KNX equipped hotel.

Contact: *www.knxware.com*

CD Innovation

Maestro KNX

Maestro KNX is an application (App) for smart devices running on the Android operating system, such as mobile phones and tablets. The application combines Maestro's graphic interface with Android devices, providing full, wireless remote control of KNX and other home systems.
The Maestro KNX app controls and monitors KNX and other systems, integrated by the Maestro Server, enabling wireless (WiFi/GPRS) control of HVAC, lighting, security, and entertainment systems. The Android touch display utilises the same unrivalled user-friendly Maestro touch screen design, simplifying control of home systems.

Contact: *www.cdinnovation.com*

ComfortClick d.o.o.

ComfortClick Controller

The ComfortClick Controller is a Linux-based device equipped with the ComfortClick Manager building automation software. Only 62 x 21 x 90 mm in size, the ComfortClick Controller fits in the palm of a hand. With plenty of processing power from an AM335x 720MHz ARM® processor, it is a perfect control unit for any home automation system based on KNX. In addition to KNX, the ComfortClick Controller can also be used for the monitoring, control and automation of: Modbus, S-BUS, DSC alarm, XBMC, Global Caché, IRTrans and SMA Solar technology, IP video cameras, and GSM modems. The ComfortClick Controller can be accessed via iOS, Android and Windows applications.

Contact: *www.comfortclick.com*

Consorzio Terranuova

SMART LIGHT FOR BUILDING

The Smart Light for Building recessed lighting solution utilises remote-phosphor technology, enabling it to deliver better flux performance while lowering operating temperatures. The lifespan of the light is around 80,000 h. Actual luminous flux 4300 Lm, efficiency 108 Lm/W, CRI > 80, colour temp 4000° K. The light of the LEDs is diffused through a plate that reduces the vertical luminance and increases the consistent resolution of the LED points. The light chamber makes it possible to maximise diffusion, guaranteeing the retention of the characteristics over time. Every light fitting is equipped with a rotary switch, allowing the definition of the illumination levels and the sensor reaction.

Contact: *www.consorzioterranuova.it*

CONTROLtronic GmbH

TS KNX Touch Sensor

The new KNX touch sensors of the TS series offer innovative touch technology combined with highest price efficiency. The KNX touch sensors are available as 1-fold, 2-fold, 4-fold and 9-fold sensors. A blue LED for status indication is available for each touch field. The brightness of the status LEDs can be adjusted. The touch sensors can be combined with any plastic or glass frame with a cutout of 55 x 55 mm. The extensive range of real glass frames in white, black, silver and gold meet the highest design standards. Customised printing on the surface provides optimal solutions for hotel, commercial and residential buildings.

Contact: *www.controltronic.com*

COMMAX Co., Ltd.

10.1" Glass Touch Panel

The 10.1-inch KNX touch panel based on the Android operating system, offers the expandability necessary to use various available Apps. Its tempered glass also has anti-fingerprint properties and eliminates any distortion in HD resolution videos shown on the LCD screen. The blue pearl colour and ambient lighting behind the logo emphasizes the tempered glass and seamlessly harmonizes the product with its surroundings for a more luxurious look. COMMAX also offers Visualisation Tool, an editor program that enables users to directly structure and edit the user environment, creating a customer-friendly UI.

Contact: *www.commax.com*

CONTROLtronic GmbH

KNX Glass Touch Sensor Console

The KNX glass sensor console provides innovative touch technology in the form of a free standing control panel (table top). Due to the individually configurable sensor fields the KNX console even allows intuitive control of extensive building functions. The unique design fits perfectly in any environment. Typical applications are e.g. on bedside tables in hotels and on desks or conference tables. The capacitive touch technology with the dimmable LED illumination of the sensor surfaces opens up new possibilities for interior design. Tempered real glass in conjunction with precise edge grinding ensures a uniquely exclusive appearance.

Contact: *www.controltronic.com*

CP electronics GmbH

High Bay KNX Detection

CP Electronics have launched a range of KNX PIR sensors including EBDHS-KNX, a high-sensitivity PIR suitable for high-bay applications such as warehousing and manufacturing facilities thanks to its 15 m mounting height and 30 m detection range from a high quality lens. Alternatively, EBDSPIR-KNX is designed to be flush ceiling-mounted, offering a range of 7 m, and can be used in various applications. Features of the PIR sensors include: two switch inputs, programmable logic block, full scene selection via the handset, and the possibility of using ETS for setup. The KNX range of PIRs is designed to provide the user with constant brightness control, scene recall and dimming via the logic controller.

Contact: *www.cpelectronics.co.uk*

CP electronics GmbH

Microwave Detectors

CP Electronics introduces MWS3A-KNX & MWS6-KNX microwave detectors – flush-mounted detectors with an extensive range advantage over standard PIR sensors. MWS3A-KNX has an adjustable lockable head for flexible use in large offices or corridor applications with a range of up to 30 m at 2.6 m mounting height. MWS6 is a flush-mounted microwave detector with a range of up to 16 m from a 2.8 m mounting height. Microwave sensors include: two switch inputs, programmable logic block, full scene selection via the handset, and the possibility of using ETS for setup. The KNX microwave detector ranges are designed to provide the user with constant brightness control, scene recall and dimming via the logic controller.

Contact: *www.cpelectronics.co.uk*

Datec Elektronic AG

KNX Power Supplies

The KNX Power Supplies with integrated chokes are used to supply different sized KNX lines. They also have an additional 30 V DC output. The total current is internally limited to approximately twice the nominal current. The short-circuit proof power supplies also include an overvoltage protection for the KNX bus. LED's for output voltage OK, current limitation or short circuit, as well as buttons and display for reset are well visible on front cover. The DIN-rail mounted power supplies have length of 4/5/6 units.

Contact: *www.datec.ch*

Dialogic Systems

HomeCockpit Major 3.0: now with integral SIP videophone!

Comprises everything you need for high quality products with the very highest design requirements. In addition to a powerful dual core processor with 4 GB of RAM and a 64 GB SSD, the current version of the innovative multi-touch panel PC delivers lots more intelligent automation features. For example the new HomeCockpit SIP videophone including audio management which can be implemented easily in existing visualisation systems and can be controlled by any UDP-capable software such as EIBPort or Gira HomeServer. When incoming calls are received a sound file is played as an alert and the number calling is sent to the visualisation system in the form of a UDP telegram. Switch to future mode!

Contact: *www.home-cockpit.de/en/major*

Datec Elektronic AG

Analog output 0 – 10 V, 4 channels

The Analogue output 0 – 10 V, four channels, is controlling four single 0 – 10 V outputs. These are used, for example, to control analogue 0 – 10 V valves, in accordance with the requirements of room control units, mainly in cooling or heating applications in offices, hotel rooms, … However also other applications are possible. Each output can source up to 2 mA, has a built in current limitation and an overvoltage protection. Moreover, the outputs are isolated from KNX Bus. The needed energy to power the device is drawn exclusively from the KNX bus, so no supplementary power supply is required.

Contact: *www.datec.ch*

Dialogic Systems

HomeCockpit Excelsior 2.0: with 3D KNX visualisation!

Even faster and more versatile – thanks to lots of innovative feature the latest generation of this high performance multi-touch panel PC sets completely new standards in terms of all-round building automation – starting from a powerful quad-core processor with 8 GB of RAM and a 128 GB SSD, intelligent videophone software with flexible UDP control and innovative 10-finger multi-touch support. The real highlight of the 2.0 version is the enhanced graphics performance thanks to its HD4000 graphics card which also enables pioneering 3D KNX visualisation systems such as CubeVision from bab-tec to be displayed fluently.

Contact: *www.home-cockpit.de/en/excelsior*

DINUY, S.A.

RE KNT 110: 1/10VDC Dimming Actuator

The DINUY dimming actuator permits the switching and dimming of 1/10 V DC equipment. It has an output channel with a maximum capacity of 200 devices. It is protected against overload, short circuits and overheating. The built-in potentiometer allows the load to be tested without using the bus. It features an anti-panic input for safety systems, built-in bus coupling unit, has a modular design and allows DIN-rail installation. Dimming behaviour and parameters can be easily configured using ETS.

Contact: *www.dinuy.com*

DINUY, S.A.

Wireless Energy Saving Solution

DINUY S.A. presents wireless radio-frequency solutions that allow significant energy savings to be achieved by controlling, for example, heating or air conditioning. Using the small bidirectional media coupler, temperature values, brightness levels, information on door/window status, etc. can be fed into the KNX bus from wireless sensors. The CO KNX 002 allows the use of KNX-RF devices in a KNX TP1 installation. This makes it possible to use, for example, wireless temperature sensors, light sensors and door/window contacts. It has 16 independent channels that can be used for the control of lighting, blinds/shutters or HVAC systems. The sensors are battery-operated and have a long service life. Configuration via ETS.

Contact: *www.dinuy.com*

DIVUS GmbH

DIVUS TOUCHZONE now available with 7", 10", 15" and 19" display

The successful, Android based product family DIVUS TOUCHZONE has been extended with the display versions 10", 15" and 19". The primary application areas of the panel family are the building visualisation (via their own apps or alternatively Apps by Gira, B-Con, Jung and others), and the door communication via the DIVUS VIDEOPHONE app (in combination with DIVUS OPENDOOR or 2N HeliosIP, Mobotix, Siedle, Gira, TCS, Elcom, Ritto IP, Jung, ...). Thanks to the versatility of the Android Apps there are many other applications such as multi-room control (eg AMX, Sonos, Revox, Crestron, Control4, etc.), alarm systems control (e.g. Telenot) or infotainment center.

Contact: *www.divus.eu*

easyMOBIZ mobile IT solutions GmbH

ayControl SmartHome EcoPilot V1.2

The new EcoPilot 1.2 runs automation tasks like scheduling- and logic-functions easily and super cost-efficiently! The EcoPilot is an add-on product for ayControl®. It is a server component running on an stationary Android device (mini PC, tablet, ...). After you have finished the ayControl visualisation, even an end user can create automation rules directly in the ayControl App (iOS or Android). It's as simple as setting an alarm clock!

- Turn on light every MON at 7 am
- Close shutters after sunset
- Send a message when temp < 5°C
- Wait four minutes after X then do Z

These rules are executed in the EcoPilot server when the defined conditions are met.

Contact: *www.ayControl.com*

DIVUS GmbH

DIVUS KNXSUPERIO kapazitiv – 10", 15" and 19"

With the 19" version of the capacitive KNX-SUPERIO DIVUS presents another member of the KNXCONTROL family. Unlike KNXSERVER it is a standalone device that is optimised especially for use in smaller installations. KNXSUPERIO combines, thanks OPTIMA interface, a simple and intuitive operating concept with an equally slight start-up! KNXSUPERIO can also set additional accents: the panel is available with 10 ", 15" or 19" LED widescreen display, a LAN interface, microphone, speakers and other interfaces, as well as a fast, energy efficient mobile processor in combination with secure flash memory.

Contact: *www.divus.eu*

easyMOBIZ mobile IT solutions GmbH

ayControl KNX version 3.2

New ayControl 3.2 – the high class and cost efficient mobile visualisation for villas, apartments, offices and hotel rooms.

- support for iOS and Android
- intuitive configuration tool
- efficient, time saving config.
- ETS3 and ETS4 import
- time and logic functions
- stable bus-connection (Wi-Fi+3G)
- H.264, MJPEG, JPG video
- TSP, RTP, HTTP stream support
- Multimedia control (IR, KNX, UDP)

IP-Intercom: Use iPads, iPhones or Android devices as high quality audio/video indoor station for SIP calls from the door. Feel free to try the FREE version!

Contact: *www.ayControl.com*

Eelectron SpA

BO08A01KNX – 8 OUTPUT UNIVERSAL MODULE

The BO08A01KNX DIN RAIL 8 Output Module is a KNX/EIB DIN rail mounting device useful for interfacing commands or loads for all kinds of applications. The device's eight outputs can be configured as follows: each output can be configured independently for load control; each output can be configured independently for ON/OFF or continuous switching (PWM) for electric valves; outputs can be configured in pairs for the management of roller shutters and blinds (up to four channels); outputs can be configured in pairs for the realisation of a motor reductor, for solenoid valves with 3-point control, for a ventilating grille (up to four channels) or as a fan coil actuator for 2/4-pipe systems for heating/cooling with 3-speed motors.

Contact: *www.eelectron.com*

Eelectron SpA

4-Channel KNX Glass Touch Switch

Eelectron SpA's KNX Glass Touch Switch is available in three colours (white, silver & black) and comes in five different models: 3, 6 or 8 channels in a 3-module in-wall box and 4 or 8 channels in a 4-module in-wall box. Every product in the line has a signalling LED for the channels and can be installed in vertical or horizontal in-wall boxes. The glass switch can be set to require short or long presses of the keys and can be used to control sequences. Colours, icons and text can also be customised for home and office settings. It is programmable using ETS.

Contact: *www.eelectron.com*

ELKA-Elektronik GmbH

KNX Gateway DMX-Web

The new gateway with comfortable web-surface can control all 512 DMX channels via 1 bit, 4 bit and 1 byte objects. It can be laid out for DMX master or DMX slave operation. Per channel a response object, a master object for brightness dimming and a dimming ramp are available. In case of a fault, the gateway can send pre-defined e-mails. Complex light controls can be realised easily with the new tool software DMX-Gate3 and can be synchronised with ETS4 via plug-in. The free-of-charge tool is available in German and English language.

Contact: *www.elka.de*

Elsner Elektronik GmbH

Outdoor Sensor Vari KNX in six versions

The KNX outdoor sensors offer various measuring options in a small and unobtrusive size. Single sensors like the Vari T KNX measure e. g. temperature or capture sun from three directions, like the Vari 3L KNX. Thus specific values can be measured at different places as required. In contrast, combined sensors allow one device to collect various data, like the Vari 3L-TH KNX for brightness, temperature and air humidity. The software of all outdoor sensors includes switching outputs and automatic functions. The version Vari GPS KNX receives the GPS position and UTC time.

Contact: *www.elsner-elektronik.de*

EGi Audio Solutions

Interface 40580 + sound 40290

The 40580 is a small, easy-to-connect DIN-rail format KNX interface for managing the sound of DOMOS2. Made of aluminium, it allows better electromagnetic shielding and has a more robust body than alternative products. It has a set-up button with a red LED light for programming purposes, and two strips for KNX and DOMOS2 BUSES. It can be used to turn music ON/OFF in one area at a time or for all areas, to select the music source, change or check the volume, enable or disable keyboard controls for all areas, change the music source (which can even include a local FM RDS station), and activate the intercom microphone for one area at a time or for all areas. It can even be used to answer and open a door from a door entry call system. The 40290 is an area sound unit, managed by KNX, in DIN-rail format.

Contact: *www.egiaudio.com*

Elsner Elektronik GmbH

Weather Station Suntracer KNX sl

The new weather station Suntracer KNX sl will continue the success story of the Elsner KNX weather stations with GPS receiver. The Suntracer KNX sl likewise offers not only sensors for capturing brightness, wind speed, temperature and precipitation, but also a controller for shading of eight fronts. The automatic functions with blind tracking according to the sun position have been extended by functions like frost protection. Additionally the functions have been clearly rearranged. After the redesign of the housing, the new model integrates nearly invisible into the face of the building.

Contact: *www.elsner-elektronik.de*

Embedded Systems SIA

LogicMachine3 Re:actor

LogicMachine3 Re:actor is an all-in-one cross-standard controller uniting 31 I/O ports in one device, scenario and logic engine, visualisation (also for touch devices), gateway and an uniform way of controlling KNX, EnOcean, Modbus, BACnet, DMX, GSM networks and protocols. Apart from familiar features like remote bus control and reprogramming, object logging with trends support and data exporting to external servers, Re:actor provides easy integration, smart automatic discovery and self-learning of other similar devices. Re:actor is a simple solution for complex tasks providing possibility to complete the installation with only one single device.

Contact: *www.logicmachine.net*

EMT Controls

A/C Unit Control Device

HCM107-KNX-AC-IR is a control device that makes it possible to integrate A/C units into a building automation system. This product is able to control a large number of split and ducted IR-controlled air conditioners through the KNX bus.

Contact: *www.emtcontrols.com*

Enertex Bayern GmbH

Update "option V3" for Enertex® EibPC

The completely revised software provides many new features, such as page based user management, an improved visualisation assistant, home automation with real time visualisation and data recording. The latter permanently stores and visualises the KNX data such as heating or electricity consumption. Project data, images and time series are stored to the EibPC's integrated flash memory. Advanced FTP functions enable a simple exchange of messages or logged telegrams. The web interface can be customized by uploading own graphics, input and output fields.

Contact: *www.eibpc.com*

EXOR GmbH

DomiOP eBIS507 and eBIS513

EXOR International DomiOP eBIS507 and eBIS513 are advanced KNX HMI devices combining top performance with an outstanding design. They offer a solution to the need for remote monitoring, scene programming and scheduled/timed actions. The eBIS507 features a 7" widescreen display while eBIS513 features a 13.3" widescreen TFT display with 1280 x 800 pixel (WXGA) resolution; the LED backlight is fully dimmable. The two built-in dual 100 MB Ethernet interfaces with switch function enhance the communication capability. JMobile, Exor's software platform for real-time monitoring and seamless remote access, offers a really innovative and efficient solution.

Contact: *www.exorint.net*

EMT Controls

ITP1000 Intercom

The ITP 1000 VOIP intercom is an intercom with special vandalism protection, touch through glass technology and an embedded RF-ID reader. It has a user-friendly design for multi-dwelling units and is suitable for luxury residences with any number of apartments. ITP1000 delivers full-motion video over IP intercom and the stability of wideband audio intercom for clear communication and video security in your home or business. ITP1000 comes in two stylish colours – Shiny Black and Cream White. This product is available with a choice of colours and number of buttons, and with a range of screen visuals.

Contact: *www.emtcontrols.com*

ESYLUX Deutschland GmbH

KNX multi-sensor

The KNX ATMO® detector offers a combination of four different sensors in a single device, which means that in addition to presence (movement and light value), temperature and humidity; it can also measure the odour intensity (VOCs) in rooms. This 360° ceiling-mounted detector thus provides a unique solution for convenient and energy-efficient room control in both residential and non-residential buildings. Its special ATMO® temperature measurement displays the exact temperature experienced by the member of staff sitting at his work area. This helps to optimise the indoor climate, particularly in areas where there are large numbers of people in enclosed spaces.

Contact: *www.esylux.com*

FieldServer Technologies

Quickserver KNX Gateway

FieldServer Technologies, the major gateway manufacturer in building automation, offers the QuickServer KNX Gateway, enabling data access from KNX networks to devices and networks utilising open and proprietary protocols such as BACnet, Modbus, LonWorks, Metasys N2 by JCI, EtherNet/IP, DNP3, SNMP, and over 100 other protocols. Key features of the QuickServer KNX Gateway are:

- Direct connection of KNX with no level converter needed
- Does not require ETS4 for implementation
- Post data using XML directly to remote server in the cloud
- No need to open customer network to receive data because data can be posted with XML
- HTML access for diagnostics and configuration

Contact: *www.fieldserver.com/KNX*

GDS Digital Systems Ltd.

PBI-192: 192-zone Paradox Bus Interface

GDS introduces the 'PBI-192', which interfaces KNX to the Paradox alarm system. The interface is implemented at protocol level and is bidirectional. The device can be used for the visualisation of an alarm system. The information retrieved from the alarm system may be used for A/C control, motion detection and lighting control. The device can be configured to provide notification of every status change. The device can also be used for arming/disarming the alarm and querying the alarm system to determine what is displayed on its keypad display. This device is a new addition to the family of GDS KNX-alarm system interfaces. PBI-192 supports all 192 zones of a Paradox alarm system.

Contact: *http:// gds.com.gr*

GePro – Gesellschaft für Prozeßtechnik mbH

Frontlight-KNX

The Frontlight-KNX is a new switch series for KNX in classic colors that can be discreetly integrated in the living area. The switch consists of a caption with the bus coupler, which is used in a commercially 68 installation box and a selectable design element. The ETS product data file includes the features of a comfort switch such as, switching, dimming, value transmission, blinds and light scenes. Round elements with RGB-LED backlight serve as actuators. They have a short stroke and tactile feedback. The actuating surface is uniformly illuminated. The RGB-LED colors are separately programmable.

Contact: *www.frontlight-knx.com*

GEWISS Deutschland GmbH

MASTER ICE

MASTER ICE is the new nerve centre of the contemporary home, a hub connecting all household devices to facilitate the management of your living space. Based on KNX, the new GEWISS colour touch panel (available in 10" and 15" versions) allows you to control, from a single point, all the functions of your house: lights, blinds, heating and cooling, energy management and load control, irrigation, burglar protection, multimedia, video entry phone and video surveillance. Furthermore, all the functions can be managed via Internet from an app or, more generally, from a web App. The new navigation system is characterised by a simple and intuitive user interface integrated into the Microsoft operating system Windows 8.

Contact: *www.gewiss.com*

GDS Digital Systems Ltd.

CBI-064: 64-zone Caddx Bus Interface

GDS introduces the 'CBI-064', which interfaces KNX to the Caddx alarm system. The interface is implemented at protocol level and is bidirectional. The device can be used for the visualisation of an alarm system. The information retrieved from the alarm system may be used for A/C control or motion detection and lighting control. The device can be configured to provide notification of every status change. The device can also be used for arming/disarming the alarm and querying the alarm system to determine what is displayed on its keypad display. This device is a new addition to the family of GDS KNX-alarm system interfaces. CBI-064 supports all 64 zones of a Caddx alarm system.

Contact: *http://gds.com.gr*

GePro – Gesellschaft für Prozeßtechnik mbH

Backlight-KNX

The backlight-KNX is a new switch series for KNX with classic colors for the living area or stylish design for kitchen and bathroom. It has the same functionality and feel as the Frontlight-KNX pushbutton, but with much more diverse optical possibilities. The lighting is user friendly programmable to create a night mode.

Contact: *www.frontlight-knx.com*

GEWISS Deutschland GmbH

Gewiss NAXOS

GEWISS presents a new family of 4.3-inch touch panels based on the KNX technology. Comfort, energy savings and safety come together in the Naxos touch panels to give the user the highest possible quality of life: NAXOS DOMO and NAXOS COMBI have been designed for the management of the domotic functions of your house (lights, blinds, heating and cooling, energy management and load control, irrigation and burglar protection). The panel NAXOS COMBI is distinguished by its dual functionality as an interface for both home automation and a video entry phone.

Contact: *www.gewiss.com*

GFS – Gesellschaft für Stromversorgungstechnik mbH

KNX-Gateway

The KNX Gateway module allows the direct connection of an emergency lighting system (ELS) of type Netlight to the KNX bus. This makes it possible to control the ELS from the KNX bus via this gateway.
At the same time error- or status messages can be displayed from the ELS on the original KNX terminal or initiate certain switching- and message actions on the KNX bus. Both bus systems are galvanically separated completely from each other and have their own processor system as a front end. The KNX module is supplied from the ELS and is thus protected against failures of the mains voltage.

Contact: *www.gfs-gmbh.de*

Gira Giersiepen GmbH & Co. KG

Gira KNX presence detector Comfort

The presence detector Comfort is installed on a ceiling and monitors an area below it. The device is used for the requirement-oriented control of lighting systems, room thermostats and other electrical consumers in interior rooms. Depending on the configuration, the device is operated for detecting motion, evaluating presence and room surveillance (alert operation). The presence detector Comfort has five function blocks. Each function block can be regarded as a virtual device that operates independently and can be assigned individually to the PIR sectors numbering up to three. Each function block is fully configurable to the application "ceiling detector", "presence detector" or "alert operation".

Contact: *www.gira.de*

Guangzhou Hedong Electronic Co., Ltd (HDL)

Intelligent Panel series

HDL's KNX/EIB Intelligent Panel series contains the products M/P01.2, M/P02.2, M/P03.2 and M/P04.2. Each button can be locked, unlocked and bus-triggered. Buttons can also be given the following functions: switching, dimming, shutter, flexible, scene, percentage, combination, and sending string. The option of delayed operation is also available for each of these functions. In night mode, the brightness can be automatically reduced to the minimum level to save energy and protect the environment.

Contact: *www.hdlchina.com*

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/EIB 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*

Guangzhou Hedong Electronic Co., Ltd (HDL)

TRIAC Dimming Actuator series

HDL's pioneering KNX/EIB dimmer series is fully compliant with European safety standards and the KNX protocol. The 25 A TRIAC dimmer can be used with the M/DL02.1 and M/DL04.1, while the 16 A TRIAC used with M/DL06.1. The dimmers incorporate high-performance embedded EMC filters that fully comply with European EMC requirements. This dimmer series features short circuit protection, fuse protection and overheating protection. It can be used for dimming ordinary incandescent lamps, high-pressure halogen lamps, low-voltage halogen lamps, etc.

Contact: *www.hdlchina.com*

Hager Vertriebsgesellschaft mbH & Co.KG

KNX touch sensors with built-in bus coupling unit

Hager is offering two new touch sensors in 1-fold and 2-fold versions for its kallysto® switch range. Configuration and commissioning can be either E-Mode with Hager handheld configuration tool TX100 or S-Mode with ETS. Both versions have rockers in the centre position. The upper and lower button surface of each rocker can be assigned with a separate switch command, so that the 1-fold button BA can trigger two control commands and the 2-fold button BA can trigger four control commands. Both versions are equipped with a status LED for each rocker.

Contact: *www.hager.de*

Hermos AG

FIS#

FIS# is a modular and scalable control software for building automation and technical facility management. The ability to connect to a wide variety of systems provides an integration of all crafts. For this purpose a large choice of communication protocols is available – now expanded by KNX. A convenient graphical interface, event reporting with flexible alarm functions and powerful trending using an open archive database enables tailor-made solutions. The open architecture allows the further use of any information by CAFM and ERP systems. FIS# stands for a new dimension of simplicity, comfort and functionality.

Contact: *www.hermos.com*

Home System Consulting S.p.A.

HSYCO KNX Utility

HSYCO is a web-based HTML5 supervision server for the development of integrated multi-vendor control systems. HSYCO 3.3 now offers a completely redefined set of tools to simplify KNX integration, including an ETS4 import utility and automatic KNX device discovery functions. It is now much easier and faster to integrate complex devices such as thermostats and automation devices. These tools are all part of the KNX Utility application in the MANAGER, HSYCO's web-based configuration centre, which can be used in any modern web browser, including on a tablet. This is tremendously convenient for on-site configuration.

Contact: *www.homesystemconsulting.com*

Ingenium SL

PPKL4-G

4.3" color capacitive touch screen with Wi-Fi connectivity and integrated Web server for remote installation management. It can control a KNX installation from any iOS, Android, Samsung Smart TV device or PC with Internet connection. It is also possible to control the installation in local mode. This touch screen allows to include 16 different pages to locate icons upon 3D drawings, plans, pictures, controlling and monitoring the elements of an installation, scenes editing and annual timings intuitive programming, possibility to arm / disarm alarm, activating presence simulation, checking the weather forecast, using a graphical whiteboard notes, etc.

Contact: *www.ingeniumsl.com*

Home System Consulting S.p.A.

HSYCO KNX and JavaScript

HSYCO now offers fully integrated support for the JavaScript programming language. There are several million JavaScript developers active worldwide. Using HSYCO's web-based editor, a developer familiar with the JavaScript language can easily write complex control applications for KNX systems and for any of the 50-plus standard and proprietary environments that HSYCO supports. Thanks to HSYCO, JavaScript and KNX represent a fantastic combination of internationally-established standards, creating new exciting opportunities for the next generation of home and building automation systems.

Contact: *www.homesystemconsulting.com*

ICONAG

MaxiApplet 2.0 with new design

With the new MaxiApplet 2.0, ICONAG complies with the high customer preferences to combine building automation with lifestyle and comfort in a meaningful way. By using the MaxiApplet 2.0, the user has access to the KNX system and is able to manage all settings with a smartphone or tablet. An easily operated timer assists the user to apply the technology in an economical and energy efficient way. The MaxiApplet 2.0 is a purely HTML5 application and does not need a special operating systems to run. The report of alarms and their forwarding via email are standard functions. In combination with the B-PANEL 7-inch, the user has an adequate intercom station.

Contact: *www.iconag.de*

Ingenium SL

SIFKNX

Double functionality device: passive infrared detector + brightness sensor. It's possible to adjust the lighting time as well as the threshold light level. It allows extended and easy parameterisation, is suitable for lighting functions, as well as people detection and intruder control. It also includes an additional channel that can work either depending on daylight or permanently. Master-Slave modes are implemented in both channels. The Daylight sensor is able to adapt the threshold dynamically thereby taking into account the influence of the lights it controls, avoiding continuous light on/off effects. Detection range: Ø 5 m at 2.5 m height, mounted recessed in the ceiling.

Contact: *www.ingeniumsl.com*

Intesis Software S.L

Houseinhand 2

Intesis presents Houseinhand 2, now with a fresh, new user interface, greater stability and improved performance. This version includes a new level of organisation (area, stay, device), support for multi-installation, the possibility of discovering new KNX/IP gateways, multiple-language interface, improved environments, integrated connection settings, etc. These features all increase flexibility and can all be managed from inside the app itself. Intesis has added more icons for both rooms and devices, and one can use own pictures as icons if desired. This version is also available for Android devices!

Contact: *www.houseinhand.com*

IPAS GmbH

CB Home Control Center

With its CB HCC, IPAS presents a new generation of KNX visualisation. Perfectly suited for mobile devices, more than 1000 objects can be configured with the fully graphical CB Editor. Floor plans and different types of 3D graphics can be easily created and edited. In addition, the CB HCC performs all scheduling tasks, scene control and logic functions. Alarms can be forwarded via e-mail. A particular highlight is the Smart Editor. This additional Editor makes it possible to create automatically optimised visualisations for Windows, Android and iOS in next to no time.

Contact: *www.ipas-products.com*

ise Individuelle Software-Entwicklung GmbH

ise smart connect KNX SONOS

ise smart connect KNX SONOS integrates up to three SONOS master devices/groups with dynamic zone management into the world of KNX. Up to three slave devices can be linked with each of the three master devices. Features:

- Full play control of play lists (play, stop, pause, next, previous, select play list via index)
- Title, artist, and album with ticker functionality accessible on KNX text objects
- Individual volume control of masters, slaves, and zones
- Dynamic zone management for up to three zones with one master and up to three slaves via KNX objects
- Playback of music stored on an SD-Card accessible directly within the ise smart connect KNX SONOS
- Supports ETS4.1.6 and newer

Contact: *www.ise.de*

Intesis Software S.L

New IntesisBox® KNX – Toshiba VRF, DI and SDI gateways

Intesis presents its new IntesisBox® TO-AC-KNX-16/64 and TO-RC-KNX-1i gateways for integrating Toshiba VRF, DI and SDI air conditioning systems into KNX systems. The gateways connect directly to KNX TP. TO-AC-KNX-16/64 is available in two versions, one controlling up to 16 indoor units and the other up to 64, both allowing control and monitoring of every single indoor unit separately. TO-RC-KNX-1i, on the other hand, can control up to one indoor unit per gateway.
These new IntesisBox® gateways come with an own ETS data file and can be easily programmed without the need for any other software.

Contact: *www.intesis.com*

iRidium Mobile Ltd.

iRidium for KNX V 2.1.1

iRidium for KNX V 2.1.1 is an innovative software especially built for controlling KNX systems. With the iRidium app installed on a tablet or smartphone running iOS, Android, OS X or Windows 7/8, users can control lighting, temperatures, curtains, security systems, audio/video equipment and any other equipment via TCP/IP, RS232 or IR. Users can control all of these devices from a graphical user interface configured according to their own personal tastes and wishes. The option of a full data import from ETS to the iRidium GUI Editor makes it quick and easy for integrators to set up communication with the KNX system. New features in version 2.1.1: intercom support, support for media servers, and enhanced support for streaming video (as many as six video cameras or DVRs can be used per room).

Contact: *www.iridiummobile.net*

ise Individuelle Software-Entwicklung GmbH

ise smart connect KNX Hue

ise smart connect KNX Hue integrates up to 25 Philips Hue lighting devices into the KNX installation. The standard KNX functionality for switching and dimming as well as for setting the RGB color value are individually controllable for each lamp via KNX objects. Realize magnificent light effects using scenes and timers with ise smart connect KNX Hue. Features:

- Control of up to 25 Philips Hue lamps via switching and dimming
- Individual setting of RGB color values
- Supports ETS4.1.6 and newer

Contact: *www.ise.de*

iSimplex

Apartment Server

iSimplex launched a new product called the Apartment Server, which is better suited for projects of minor scale and budget. Following the brand's policy, this new product fully supports KNX . Automation and Media are strongly interlinked in the new server, without losing sight of the brand's recognised simplicity. iSimplex products are regularly updated, being optimised and getting new features . All the interfaces are web enabled, customisable and accessible by any device, allowing integrators to remotely configure and test an installed solution.
iSimplex: Anything, anytime, anywhere.

Contact: *www.isimplex.com*

Albrecht Jung GmbH & Co KG

KNX DALI-Gateway Plus

The Jung KNX DALI-gateway Plus connects the KNX world with DALI-lighting installations. It constitutes a development of the established DALI-gateway. Beside switching and dimming of 64 lights in 32 groups, it is also possible to save and control up to 16 light scenes. In addition, the gateway enables a light-effect control and allows the integration into DALI-emergency lighting systems. Especially handy is the simplified online and offline configuration. The DALI-gateway is configured and put into operation using an ETS embedded plug-in. Additional Hard-/Software is not required.

Contact: *www.jung.de/en*

KANONTEC

KNX Daikin Gateway

The KTS0-DK621 is a KNX Gateway for monitoring and control of the Daikin VRV range of air-conditioners. It is completely compatible with the Daikin modbus interface type: DTA116A611/DTA116A621.

- The only KNX interface recommended by Daikin China
- Can support up to 64 indoor-units
- Automatic detection and monitoring of connected indoor units
- Switch to control and monitor fan speed, mode choice, setpoint-temperature
- Monitoring of room temperature, monitoring of Daikin error codes
- High performance price ratio

Contact: *www.kanontec.com*

IT GmbH

Elvis Express

Create a visualisation project right out of an ETS project file! Elvis Express, a product of IT GmbH and part of the visualisation software Elvis 3.1, identifies typical building functions in the ETS project file and represents them as suitable control combinations in a ready-to-run visualisation project. During the conversion process you can customise the basic design and the look of the controls. The created project contains therefore the pages as well as the controls and is immediately usable at the customer site. At the same time the complete access is granted to all Elvis tools and the project can be adapted to you needs. You can download the software from the company's web site.

Contact: *http://www.it-gmbh.de/en/products/elvis-3/elvis-express.html*

KANONTEC

KNX Multi-function Gateway

KTS1 is a gateway between KNX and other systems/terminals, which can process multi-protocols concurrently. Multifunction means: 1 x KNX, 2 x RS232, 1 x RS485, 1 x Ethernet, 3 x IN, 3 x OUT. It is not only protocol driven but also terminal driven: protocol driven means it can integrate many standard protocols such as KNX, BACnet/IP, Modbus RTU/TCP, Serial ASCII/Hex, Socket TCP/UDP, GPRS, etc. Terminal driven means it can integrate almost hundreds of terminals especially non-standard terminals such as Daikin air-conditioning, Toshiba, Mitsubishi G-50, BOSE, Backaudio and so on. The terminal-database is moreover constantly growing. In a project, it suffices to use just one KTS1 to integrate many systems.

Contact: *www.kanontec.com*

Legrand

Manual KNX controls

The Legrand & BTicino manual control ranges MOSAIC, CELIANE, ARTEOR, LIVINGLIGHT and AXOLUTE are now available for KNX. These new KNX control mechanisms benefit from the existing Legrand & BTicino plates and key covers and offer functions for lighting management and hotel room management. In addition to standard lighting and shutter control functions, they also have advanced control features (sending two commands from the same buttons, controlling different circuits in response to events, and locking/unlocking actuators and commands) and offer several different operating modes. Embedded RGB LEDs (in a selection of 12 colours) notify the user in case of overconsumption and provide feedback and system status information to the user.

Contact: *www.legrand.com*

Legrand

KNX multi-application DIN-controller

The new Legrand KNX DIN-room controller has been designed to meet the requirements of hotel and conference room control. It offers: 16 configurable binary outputs for lighting, shutters, socket control, power metering, plus one DALI-output (each output can handle five different scenarios and three different modes) and 16 configurable auxiliary inputs for on/off, dim+/-, scenes, up/down/stop for shutters and slats, and counter controls through traditional contact devices. This single automation component can be used to handle the majority of any challenging request: three logical function "blocks" permitting one command and three conditions and three programmed function "blocks" generating five commands for one single Group Object.

Contact: *www.legrand.com*

Lifedomus

Lifedomus Sense

Based on the Lifedomus Vision system, Lifedomus Sense is a revolutionary graphical user interface and the subject of multiple patents. Lifedomus is the universal home automation system. Its "Design Studio" interface offers limitless options for customisation for every user or installer. Its functions and graphical features can be programmed without any code. Lifedomus is supplied configured for the KNX protocol, moreover you can add further features or protocols and customise your system yourself (à la carte'-style). Lifedomus Sense is available for PC, Mac OS, iOS and Android systems.

Contact: *www.lifedomus.com*

MDT

RF-LK001.02 KNX RF S-Mode Line Coupler

The MDT KNX RF S-Mode line couplers establish the connection between the new KNX RF S-Mode devices and the KNX TP bus system. They conform the new KNX RF S-Mode specification and are parameterised with the new ETS5. Filter tables control which telegrams are blocked or transferred to or from the KNX TP1 main line. The line couplers are compatible with the new KNX RF S-Mode devices from various manufacturers. Using this new technology it is possible to control the new RF S-Mode devices by a remote session and parameterise the new RF S-Mode devices as standard TP1 devices. The devices are available with the release of the new ETS5. The devices use 868 MHz for Europe.

Contact: *www.mdt.de*

Lifedomus

Lifedomus Vision

The Lifedomus system has a revolutionary graphical user interface and is the subject of multiple patents. Lifedomus is the universal home automation system. Its "Design Studio" interface offers limitless options for customisation for every user or installer. Its functions and graphical features can be programmed without any code. Lifedomus is also suitable for multiple protocols (including KNX), multiple users, multiple platforms (Windows, Mac OS, iOS and Android) and multiple use (home automation and multimedia). Lifedomus offers the full spectrum of home automation applications: security, comfort, energy analysis, multimedia, multiroom audio and video, universal remote control, etc.

Contact: *www.lifedomus.com*

LOYTEC electronics GmbH

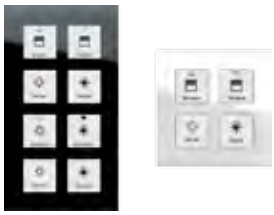
L-ROC Room Controllers

LOYTEC offers freely programmable room controllers with I/O expandability. The high-performance L-ROC Room Controllers provide gateway functions for the simultaneous integration of KNX/IP and Modbus as well as CEA-709 and/or BACnet. Either KNX TP1 or M-Bus can be integrated optionally. The combination of free programmability (IEC 61499), an integrated OPC server, an integrated SCADA system (HMI), gateway functions, scheduling, alarm monitoring, trend logging and e-mail notification provides multiple uses for room automation.

Contact: *www.loytec.com*

MDT

RF-GTA4W.01 KNX RF S-Mode Glass Push Button with actuator



The MDT KNX RF S-Mode glass push button with integrated switch actuator uses system mode and is parameterised with the new ETS5 like a standard KNX TP1 device. The glass push button with modern design has four or eight touch sensors and a surrounding orientation light. Each touch sensor has a two colored white/red LED with individual setting for day and night. A title block, printed with a laser printer, is inserted behind the glass front. The integrated two or four actuator channels with each 10 A can be set as switching actuator or shutter actuator. The devices use 868 MHz for Europe.

Contact: *www.mdt.de*

NETxAutomation Software GmbH

NETx Voyager 5.0

In addition to showing and using the current values of data points, past value changes are of great interest for modern building automation applications. Therefore, the visualization software NETx Voyager 5.0 provides the following new features:

- trending module to monitor data point values during runtime
- historical data chart for showing past values of KNX Group Addresses and other data points
- metering chart to visualise consumption values of smart meters

The collected values are visualised in a customisable chart element or in a table view. Exporting the historical data to MS Excel and PDF as well as printing is possible too. Furthermore, the data can be accessed by third-party applications via SQL.

Contact: *www.netxautomation.com*

nomos system AG

Daemon Service

nomos System AG, Switzerland, offers its own Daemon Service – a multiprotocol engine for manufacturers in the field of automation. nomos now enables the KNXnet / IP protocol (tunneling / routing) for bi-directional integration into the Lutron system (RadioRa, HomeWorks, Gaphik Eye) via direct config-file import. Z-Wave components can now also be integrated. In addition to iTunes and AppleTV, nomos now also controls the full SONOS protocol. Push services for iOS and Android devices were added to the existing social media functions like Twitter, Facebook and Prowl.

Contact: *www.nomos-system.com*

SBS S.p.A.

ekinex® KNX pushbuttons

The new ekinex® push buttons are S-Mode KNX devices for switching loads, dimming lighting devices, controlling shutters or other programmable functions. Easily recognisable for their exclusive design, the push buttons can be completed with square or rectangular rockers and a frame of the form or flank series, available in two materials (plastic or aluminum), many colors and finishing options. The rockers can be customised with texts and/or symbols from a wide library. Two LEDs (blue/green) for each channel are programmable as status feedback or orientation nightlight.

Contact: *www.ekinex.com*

NETxAutomation Software GmbH

New hotel interfaces for NETx BMS Server 2.0

In addition to traditional systems for lighting/shading as well as for heating, ventilation and air conditioning (HVAC), hotels are often equipped with dedicated subsystems. In order to provide advanced control functionalities, integration is desired. The NETx BMS Server 2.0 supports new interfaces to:

- Micros/Fidelio (hotel management)
- VingCard (electronic hotel locks)

Using these interfaces, Datapoints from KNX can be linked to these subsystems and vice versa. Typical examples are the control of the HVAC system based on the guest check-in/check-out or the triggering of a KNX lighting scene after opening the door of the hotel room.

Contact: *www.netxautomation.com*

Omniabit s.r.l.

Juicy iAX home automation system

Juicy iAX is Omniabit's new home automation system based on KNX. Designed to give even existing home networks the opportunity to acquire a new level of intelligence, and to permit the control of their electronic devices, Juicy iAX lets the user manage lighting, heating, air conditioning and domestic appliances, and is designed for guaranteed interoperability between devices via KNX. Juicy iAX also allows the customer to save energy by monitoring energy consumption and it is an efficient security solution for alerting the emergency services in case of fire, burglary, floods or gas leakage, capable of linking up various compatible devices. Features: remote web-based access; local access by tablet or smartphone; simple & user-friendly GUI; fast and simple configuration.

Contact: *www.omniabit.com*

SBS S.p.A.

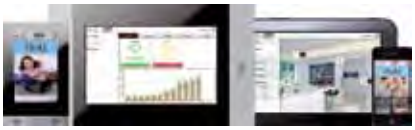
ekinex® KNX Touch & See

The ekinex® EK-EC2-TP control and visualization unit is a KNX S-Mode device for a really user-friendly switching, controlling and displaying of bus functions. Through a 3,5" colour touch-screen and an easy user interface organised in a sequence of graphical pages, it is possible to control and monitor actuators and display information received from actuators and sensors in a simple and intuitive way with one touch. The device has to be completed with a frame of the form or flank series, available in two materials, many attractive colors and finishing options. It is equipped with an integrated KNX bus communication module and is designed for wall installation on flush mounting box.

Contact: *www.ekinex.com*

Schneider Electric

U.motion



U.motion by Schneider Electric is the comprehensive KNX building control format that matches your active and digital lifestyle. LifeSpace Management with U.motion fulfills customers' wishes while creating an individual, energy-efficient and mobile building control solution from one source. A standardised user interface allows to intuitively control all devices, starting with a **7"** Touch Panel, via **10"** and **15"** versions, up to the U.motion Control Apps, available for all types of smartphones and tablets. Further incorporating the U.motion DES Gateway facilitates operating of door communication and video intercom functions as well. Create touching moments for your customers – with U.motion.

Contact: *www.schneider-electric.com*

Siemens AG

IP Control Center N 152

The IP Control Center is a visualisation controller of compact design. It allows the free creation of user interfaces, thus offering intuitive visualisation of KNX installations with functions across all disciplines. This way, room automation can be displayed and operated via web-compatible devices, such as PCs, tablets or smartphones. Planning is effected via ETS and the web editor – preinstalled and configurable via a browser. Logic, scene, time command and alarm modules including e-mail notification are integrated. Moreover, web content, such as news or weather forecasts, can be included.

Contact: *www.siemens.com/gamma*

Siemens Schweiz AG

IP gateway KNX/BACnet N 143

The compact IP gateway KNX/BACnet is a certified KNX device that is used to integrate KNX installations in a BACnet system. It is configured solely with ETS, enabling the system to be commissioned efficiently and straightforwardly – without requiring BACnet knowledge. The conversion of KNX objects to BACnet objects is made fully automatically. The BACnet configuration can be viewed via the built-in web server. Integration in BACnet takes place through a standard process. The device contains a KNXnet/IP interface, which is used to set up the gateway itself plus other KNX devices.

Contact: *www.siemens.com/gamma*

Servodan A/S

Brand new KNX detectors

Servodan, the leading Danish manufacturer of sensors and detectors, has launched a brand new series of presence detectors, named 700 series. The new series includes two highly efficient KNX presence detectors; ref. no. 41-730, a KNX detector for flush mounting and ref. no. 41-731, a KNX detector for surface mounting. The detectors are IP54 and have a large 360°, 24 m range detection area of 300 m² at floor level, 140 m² at table level, and small motion detection area of 9 m². The detectors are easily installed via the removable bottom part, where you just click on the top lens part after installation. The detectors must be programmed via the ETS4 software and are easy to configure in Basic, Optimisation or Advanced mode.

Contact:
www.servodan.com/powerful%20detectors

Siemens AG

KNX/DALI gateway Twin plus N 141/21

The KNX/DALI gateway Twin plus is a compact KNX device featuring two autonomous DALI-outputs. Up to 2 × 64 DALI-actuators and, in addition, a minimum of 2 × 10 selected DALI-sensors can be connected. The extensive scope of functions includes sequence control, central control, manual control and built-in constant light control. Also, the mandatory checks for emergency lighting systems are initiated and stored. The built-in standby function helps to save extra energy. Faulty individual ballasts can be replaced without any software.

Contact: *www.siemens.com/gamma*

Siemens Schweiz AG

Touchscreen room thermostat RDF800KN

The new KNX-compatible RDF800KN touchscreen room thermostat offers ease of operation and highest levels of room comfort while saving energy both in heating and cooling mode. It is suited for fan and universal applications and for use with compressors of direct expansion coolers. The RDF800KN controls the room temperature either via its built-in sensor or an external room or return temperature sensor. The speed of three- or single-speed fans can be controlled either automatically or manually. The thermostat offers minimum and maximum limitation of the room temperature setpoint (in °C or F).

Contact: *www.siemens.com/thermostats*

Sinapsi srl

EQUOBOX MASTER SOLUTION

The Equobox Master is a solution for metering energy and other resources in a building based on the EQUOBOX CPU. Web server for web-based data acquisition, generation of advanced reports, and management and graphical analysis of the data acquired by LEVEL CONVERTER, RTU and modbus devices. The gateway has functions for data exchange between different field buses (KNX, RS485, M-BUS).
General features:

- open, multi-language system
- detailed technical & economic information
- efficient maintenance
- management of the logged data
- integration with home and building automation systems
- calculation of the allocation of consumption

Contact: *www.sinapsitech.it*

Somfy GmbH

animeo KNX RS485 Motor Controller

The new motor controller device from animeo KNX offers an attractive solution for individual or centrally operated shading elements and roller shutters. It allows extremely precise controlling of the new digital Somfy RS485 motors. A group of up to six motors can be integrated together and installation is with plug & play or per spring clamps. The exact position of the hangings can also be controlled during the drive movement as well as reaching the end positions. Numerous precise intermediate positions can be programmed over a 1 byte telegram. The motors work very silently (44 dB) and provide a very high degree of acoustic comfort.

Contact: *www.somfy-knx.de*

STIEBEL ELTRON

KNX IP software for the ISG

Stiebel Eltron heat pumps can be conveniently integrated into the KNX building management system. This is implemented via the Internet Service Gateway (ISG), which allows you to operate it from your PC, tablet and smartphone, in addition to accessing other services. KNXnet/IP capability is installed as a software extension – an official KNX product. All it requires is remote access for customer service. In this way around 100 operating parameters and device data become available via KNXnet/IP. This solution makes Stiebel Eltron the first company in the heating sector to implement what is already normal in other industries: extending device functionality over the Internet.

Contact: *www.stiebel-eltron.de*

Somfy GmbH

Universal EnOcean Radio Receiver for animeo KNX

The new commercial radio plug-in card from Somfy serves as a universal interface that controls all animeo KNX applications without wires or batteries. Through a plug connection the card is fitted in the motor controller device and can be used for programming shading systems without any special pre-knowledge. Setting time and weather dependent scenario's are very simple. The setting between local and central commands is done directly on the device, or via different modes of operation. An advantage of the radio receiver is that no additional Individual Address must be assigned in the system.

Contact: *www.somfy-knx.de*

Steinel

iHF 3D KNX

The new iHF 3D KNX sensor from Steinel Professional is the first HF-sensor for outdoor use. STEINEL's newly developed intelligent high-frequency technology ensures that people's movements are reliably detected by analysing the received signal. The system rules out disturbances of the type familiar from 'passive infrared (PIR)', such as: seasonal factors, influences of day and night or body temperature. Mechanical selection of the 160-degree footprint detection over three zones from 0,5 to 8 meters is a real innovation. HF-technology also guarantees a very good radial detection performance.

Contact: *www.steinel-professional.de*

T2M2

T2 Edition3 PC156

In 2014, T2M2 brings light into your house. The combination of high quality materials with special lighting elements brings subtle light patterns on your wall and brightens the room with pleasant shine. Whether as a nightlight or as a design element it offers completely new possibilities to upscale your house. With optional equipment of a KNX interface different lighting scenes can be controlled.

Contact: *www.T2M2.de*

T2M2

T2 Edition3 PC24

T2M2 brings a new size in the KNX Touch range. Apart from the proven 10.2 ", 15.6" and 21.5" Touch, they now also have a 24" touch panel in their range. An elaborately milled frame is combined with a finely cut glass surface of the touch panel. Timeless design and a durable technology fulfill every need at home. Inside the panel modern computer technology works with Windows 7/8 Professional and there is an optional KNX interface for a direct bus link.

Contact: *www.T2M2.de*

TAPKO Technologies GmbH

KAIstack RF S-Mode

TAPKO is proud to announce the availability of the new KNX RF S-Mode module of KAIstack. This module can configure KNX RF devices natively in ETS for the first time in the KNX history. In this way they provide their customers a way to enter the hard-fought but still not conquered retrofitting and residential market. One of the major highlights is the possibility to use the same application developed for TP1 also on the medium RF without any adaptation. Even battery powered solutions are possible in this way, since KAIstack provides all necessary features like support of low-power modes needed for energy sensitive applications like battery powered or energy harvesting applications.

Contact: *www.tapko.de*

TENSE Top Design Switches bvba

INTENSITY series touch button switch

The INTENSITY is a high-end elegant touch button switch with 1/2/4/8 touch zones. It is available in brushed/anodised ALUMINIUM (white/natural/black/white painted), GLASS (white/black/silver/gold) or CORIAN (white/white cross). Its symmetrical modern look makes the INTENSITY a state-of-the-art product. The multi-colour LEDs light up when touched, turning the INTENSITY into a pure, unique pleasure for the eyes. All KNX products support a diverse range of application profiles and are easy to program via ETS. Furthermore, the firmware can be reprogrammed via the bus, so it can be adapted to future applications.

Contact: *www.tense.be*

TAPKO Technologies GmbH

RF media coupler

The new RF media coupler from TAPKO is the second device of the coupler device series employing the new coupler 2.0 model with the possibility to temporarily disable filtering of messages by pressing a button. Temporary access to other lines is possible without download from ETS. In addition, a faulty communication on the bus is indicated through LEDs. The RF media coupler provides a connection between RF and TP1 KNX bus lines. It is fully integrated in the new release of ETS. This new device is based on the proven reliable KNX technology platform KAI from Tapko, using KAIstack with the new KNX RF S-Mode module which is also available for product development. Also available as OEM version.

Contact: *www.tapko.de*

tci Gesellschaft für technische Informatik mbH

KNX touch panels with integrated visualization

With the 7 and 10 inch touch panels pure-KNX tci offers a cost-effective solution to equip KNX installations with a graphical user interface. Without additional engineering effort, the parameterisation of the visualisation is done directly with the ETS software. The visualisation and user interface are created automatically. If the customer decides at a later time to use an individual surface, the automatically generated visualisation can be adapted by an editor. Mobile apps for Android and iOS enable users to operate via smart phone or tablet with the same "look and feel". The assembly of the touch panel is done in the wall with the tci in-wall box.

Contact: *www.ambiento.de/en/news*

TENSE Top Design Switches bvba

INFINITY series OLED touch button switch

The INFINITY is a high-end elegant OLED touch button switch with several functions such as light setting, t° control, audio control & scene activation. It is available in brushed/anodised ALUMINIUM (white/natural/black/white painted), GLASS (white/black/silver/gold) or CORIAN (white/white cross). Its symmetrical modern look makes the INFINITY a state-of-the-art product. The multi-colour LEDs light up when touched. All KNX products support a diverse range of application profiles and are easy to program via ETS. Furthermore, the firmware can be reprogrammed via the bus, so it can be adapted to future applications.

Contact: *www.tense.be*

Think Simple S.r.l.

VITRUM, THE NEW SWITCH GENERATION

Vitrum is a family of patented design products, specially created to control every function in the home. Entirely designed and produced in Italy, Vitrum represents a revolution in switch design: it is easy to install and operate, and is environmentally friendly. A simple and efficient home automation system with a sleek, refined look. The simplicity of Vitrum, the perfect harmony of the KNX protocol and its ergonomics gives the switch a simple yet innovative design, unique in its beautiful shapes and elegance of its materials. Vitrum has completely revolutionised switch design thanks to its use of refined, good-looking materials and the KNX protocol.

Contact: *www.vitrum.com*

Tokka Sp.Z o.o.

Switching actuator 8 x 230 V AC/10 A

The KNX switching actuator is designed to control max. 8 loads via potential-free contacts. Each channel can be controlled manually from the device and/or remotely from the bus and is parameterised individually by the installer. There are four types of LEDs on the device, which denote programming mode (solid red LED), manual mode (solid yellow LED), downloading of an application to the device (solid green LED – "RUN") and the status of the individual channels (eight yellow LEDs). The KNX switching actuator is made for mounting on a 35 mm DIN-rail and spans five modules.

Contact: *www.tokka.pl*

Trivum technologies

Audio actuator 4x

trivum presents the audio actuator 4x. A complete four zone multiroom music streaming system for the distribution cabinet is herewith available for planners and electricians. The actuator streams music from network drives, internet music services, internet radio stations, and via Apple AirPlay. In addition, it has an integrated FM tuner and analog input. The twelve units wide DIN-rail chassis of the audio actuator 4x can be installed with little effort and is easily configured by webconfig. The integrated amplifier and the digital signal processor (DSP) provide a full-fledged multi-room music system. The trivum audio actuator 4x ensures a tidy environment at your customer's home without any visible cabling and audio components.

Contact: *www.trivum.com*

Tokka Sp.Z o.o.

Flush-mounted bus interface

The flush-mounted bus interface module is a combination of two KNX devices: a push-button interface and a binary output. The device has 6 inputs with a detachable 6-pair plug and a switching output: 30 V DC/1 A or 125 V AC/0.5 A. Each input as well as the physical output is parameterised individually by the installer. The ETS application additionally permits the definition of internal connections between inputs and physical and virtual outputs with trigger release. Multiple AND and OR gates can be used if logical operations are to be executed. The device considerably facilitates the control of home and building appliances.

Contact: *www.tokka.pl*

Trivum technologies

AudioBox

trivum brings you the new AudioBox. It is a retrofit music system in a high quality aluminum frame, designed to be placed in the apartment as a visible component with an agreeable design. The technical features leave nothing to be desired: streaming client from network drives, internet music services, internet radio, Apple AirPlay, and FM tuner with integrated digital amplifiers and a powerful DSP. The trivum AudioBox can be combined with all trivum audio actuators for a perfect multiroom experience. Like all trivum products it is fully KNX compatible for easy integration it in existing KNX systems.

Contact: *www.trivum.com*

VIATRON GmbH

Multiroom Audio Autrix

The Autrix success story continues! VIATRON Germany consequently goes on with its demand for convenient Multiroom Audio and simplest integration in the KNX bus system . The new Music Client One offers Internet radio and an integrated MP3-Player- fully functional via KNX. Functions such as switching radio stations, selecting song titles, Stop, Pause etc. are already included. The feedback of media information such as interpreter, title etc. is sent directly into the KNX System. Multiroom Audio – wherever you are.

Contact: *www.viatron.de*

Video-Star Electronics Co. Ltd.

Temperature Control Panel

The CHTC-86/01.1.11 room thermostat touch panel is a KNX ambient temperature controller suitable for fan coil systems and universal heat pump applications. There are different kinds of control modes, including continuous PI control, PWM control, 2-point control and fan coil control, and different types of control modes are suitable for different types of heating or cooling control systems. It also provides two threshold functions, two logic functions, 16 timer setting functions, four push-button interface functions and six touch buttons. With these functions the panel can be used to regulate temperature and humidity in the room in an energy-efficient way.

Contact: *www.video-star.com.cn*

Vimar SpA

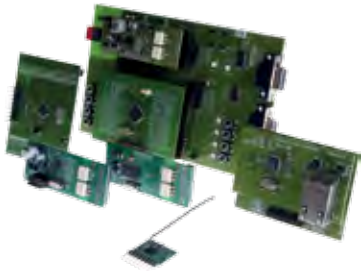
KNX controls for Eikon Tactil

Seduction at first sight, the forms of Eikon Tactil bring life to a luminous, smooth glass surface. And beneath this elegant material lie Vimar's KNX controls. The softest touch – is directly transformed into direct energy control by the refined touch technology. As soon as you touch it, a proximity sensor senses you are near the device and switches on the RGB LED back-lighting incorporated in the system switches. And, having pressed the button, a special signal gives off an acoustic feedback. Designed for having up to six independent buttons, Vimar's KNX controls are also fitted with integrated bus terminals, which greatly facilitates wiring and avoid all possible risks of connection errors.

Contact: *www.vimar.com*

Weinzierl Engineering GmbH

KNX Stack TP1/IP/RF S-Mode



Scalable, modular, and for all media: the new Weinzierl KNX stack offers a fully certified and modular platform for the development of KNX devices for TP1, IP and the new wireless standard RF S-Mode. The modular design offers maximum flexibility: a powerful Core Pack based on System B – optimised for 32-bit controllers in the versions COMPACT or PLUS – can easily be combined with a Medium Support Pack (TP, IP, or RF S-Mode). The Media Support Packs can be licensed individually or together. Modular development boards and new software tools and support are included as well as an individual customer training.

Contact: *www.weinzierl.de*

Video-Star Electronics Co. Ltd.

Room Controller

The AMRM-41/00.1 room controller provides a simple, low-cost solution for hotel rooms that can be used to achieve individual room control, including control of heating, cooling, ventilation, lighting, water/fire alarm, emergency buttons, blinds, etc. It can also be used in apartments, hospitals, office buildings, assisted living homes, etc. Despite its compact design the room controller can meet most requirements in terms of electrical installations for home and building control systems, and integrates most of the input and output interfaces needed for individual automatic room control. It includes the following functions: 20 inputs, 12 switching outputs, 2 dimming outputs, 2 shutter outputs, 3 fan outputs and 2x2 electronic valve outputs

Contact: *www.video-star.com.cn*

VISAM Gmbh

VBASE

The new version 10 of the well-established visualisation and control system of VISAM GmbH is named "VBASE – Visam Automation Base'. VBASE is the central software-hub within the VISAM HMI / SCADA product family. Here projects are created, data is stored, and control commands are analysed and sent to the connected KNX systems. VBASE has a user-friendly and integrated development environment and got even more powerful by optimisation. New functions include a universal HTML5 interface for smartphones and tablet PCs, support for multi-touch and gestures, and new capabilities for energy management, monitoring and controlling.

Contact: *www.visam.com*

Weinzierl Engineering GmbH

KNX RF S-Mode Coupler 680

No wires and no compromises: ETS5 integrates KNX radio (KNX RF S-Mode) as a full-fledged fourth medium into the KNX system. As a media coupler, the KNX RF S-Mode coupler 680 by Weinzierl allows the easy connection of KNX RF S-Mode devices to a TP1 installation. The coupler builds a radio line with its own domain address. The forwarding of telegrams is defined via ETS through a filter table. The configuration of RF S-Mode devices connected to the coupler is done via ETS in the same way as for TP1. Integrated into a wall mounted housing the KNX RF S-Mode coupler 680 offers numerous diagnostic options on the illuminated graphic display. The power is supplied via the bus.

Contact: *www.weinzierl.de*

Wieland Electric GmbH

Room automation of the future

The room automation series gesis® FLEX of Wieland Electric is modular, compact, 100 % pluggable and guarantees quick, reliable and error-free installation. gesis® FLEX modules are ideally suitable for installing in raised floors and suspended ceilings. A basic module can manage up to six extension modules. Binary inputs, switching and sunblind outputs as well as many more function modules are available. Intermediate feeds and a quick-assembly frame round off the product range. Consistent pluggability as well as the status display and manual operation on each module simplifies commissioning enormously.

Contact: *www.wieland-electric.com*

Zennio Avance y Tecnología, S.L.

KNX power supply 320 mA with ancillary power supply

As many professionals believe that beauty also counts in electrical cabinets, Zennio has developed a new "state of the art design" KNX power supply. ZPS320MPA is added to the Zennio catalogue with a new tiny 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 320 mA. Besides, it incorporates LED operation and overload indication, overvoltage and short circuit protection and reset push button. It is available for main power supply of 230 V AC or 110 V AC. Optimal installation on DIN-rail (80 x 90 x 60 mm).

Contact: *www.zennio.com*

Zennio Avance y Tecnología, S.L.

TMD – Display

The TMD-Display is a completely customisableroom controller designed for homes, offices and hotel rooms. Everyone can create unique compositions, which could include images, icons, texts or logos. This customisation is printed on strong tempered glass, with an anodised aluminium frame to finish off the author's work. The TMD-Display is able to manage climate, audio, shutters, light, etc. and all through an intuitive and modern touch panel with eight buttons. It also includes a thermostat function, internal temperature probe and two analog/digital inputs to connect temperature probes, motion sensors or standard push buttons.

Contact: *www.zennio.com*

ZF Friedrichshafen AG

Energy harvesting KNX-RF wireless switch module

Technological leap for KNX-networks: Under its Cherry brand, ZF presents an energy harvesting wireless switch module for KNX RF. The ready-to-assemble module can directly be integrated into switches with customized operating elements or design-parts. It requires no wires or batteries. The actuation of the switching unit produces enough electrical energy to transmit a complete KNX RF ready protocol in S-Mode directly to any KNX receiver. There is no need for a gateway and the configuration is done via ETS. The maintenance-free module has been optimised for a low actuation force and a low operation noise.

Contact: *www.cherryswitches.com*

Well-Documented KNX Projects with the Flyers Checklists

Two flyers for KNX step-by-step project management are available. On the one hand is **Part 1** – Start of project, which contains a checklist for implementing an electrical installation with KNX and a supplementary sheet for other possible applications; and on the other hand is **Part 2** – Handover, which covers the visual inspection, functional check, customer induction and the handover of the system. These documents are already available in several languages (English, German, French, Greek, Hungarian, Italian, Spanish and Dutch). Additional language versions are already being prepared.

Free order via e-mail:

info@knx.org

National Groups

KNX city shown at BIEL

In November 2013, KNX Association participated at the most renowned event in Argentina powered by light+building: BIEL Buenos Aires. On a more than 50-square meter stand based on the KNX city concept, the members of the Argentinian KNX National Group showed their own solutions to the visitors, next to KNX city solutions. In this way, the KNX booth served not only as a meeting point for visitors but also as the focal area for professionals working in the home and building control sector: the latter had the opportunity to learn about the solutions to create more sustainable cities based on the KNX technology.

KNX booth at the light+building 2013 in Argentina

In addition to the participation of KNX Argentina at the BIEL show, the main members of the association took the opportunity to hold the first General Assembly in which the activities undertaken in the past year were reviewed and also defined the next actions for 2014.

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An evening with KNX in Canberra, Sydney & Melbourne

Australian KNX member mySmartCTI hosted "An evening with KNX" at Sydney's world famous Taronga Zoo. Over 60 exhibitors and guests enjoyed presentations on KNX and explored stands from ABB, Hager, Jung, Somfy and Wago. The second of their events, "An evening with KNX", took place in Melbourne. Consultants and contractors explored stands from members of the KNX National Association Australia and benefited from a presentation on KNX and successful KNX Case Studies. Canberra, Australia's capital city, was the last stop in this KNX Road Show. All events were supported by the KNX National Group of Australia and received great feedback from exhibitors and guests. Without any doubt, KNX Australia has boosted KNX's status to make it THE technology for home and building automation.

KNX event in the Australian Taronga Zoo

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KNX Austria Spends the Day in Linz

KNX Austria hosted an important event in December 2013 in the Linz Music Hall (Musiktheater Linz), a venue equipped with the best equipment that modern technology has to offer. The occasion was well-attended, with 130 guests present.

The topics "Construction Documentation", "Innovative KNX Solutions", and "Collaboration Among Electrical Consultants and Contractors" laid the groundwork for the active participation and interest of the participants. The chairman of KNX Austria, Ernst Windhager, discussed the positive development of KNX in Austria and the high level of expertise available to address questions regarding KNX. Speakers, including the architect Wolfgang Holzer, emphasized the importance of teamwork among all members involved in a project. Intelligent building technology, like KNX, must be integrated into the architecture of a building, be easy to operate, adaptable, and efficient; it will then increase the value of the property. KNX System Integrator Andreas Tarmann spoke about the advantages of automating processes, energy efficiency, and the fact that all devices have to communicate with one another. Arnold Stengg and federal guild master, Josef Witke, also addressed the issues of construction documentation and contract specifications in relation to the foreseeable outcome of projects and important factors regarding waranties and liability questions.

Participants from the KNX event in Linz (Source: PUNKTUM)

View to the stage of the musictheatre (Source: PUNKTUM)

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3rd edition of the KNX Belgium event once again a great success

On 5 September 2013 KNX Belgium organised its third KNX Belgium Event at the Thomas Moore Institute at the De Nayer Campus in Sint-Katelijne-Waver. This unique, unprecedented event from KNX Belgium combined presentations on a number of interesting topics related to KNX with a KNX fair at which the latest products from KNX Belgium manufacturers were presented. It ended with a reception. This year, for the first time, separate sessions were conducted in French and Dutch, so all attendees could benefit from presentations held in their own language. In the end more than 250 people attended the event. Because of its great success year after year, the organisers have already decided to hold a similar event again next year. Hope to see you there!

Main stage view of the KNX Belgium event

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KNX Chile: the 3rd KNX National Group in South America

The KNX National Group Chile was launched as a result of the KNX Association's work to boost the profile of KNX internationally, which focused on Latin America in particular because of this region's outstanding potential. KNX Chile was the 3rd KNX National Group to be established in Latin America following the founding of the National Groups in Argentina and Brazil.

The KNX Association invited those companies in the country that were working most actively with the KNX standard to take part in the first event. As a result, a total of 12 companies ranging from official representatives of KNX Members to local system integrators applied to become member of the newest KNX National Group. The Group's Board is made up of Schneider Electric (President); Clas-Jung (Vice President) and INACAP – the largest technical university in Chile, with 26 campuses across the country – as Secretary. The Group's first activities have already been decided upon and will commence soon.

Founding members of the National Group KNX Chile

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KNX China welcomes visitors to the SIBT Fair in Shanghai

Shanghai Intelligent Building Technology was again a big success for KNX China in 2013. As in 2012, this year the National Group once again welcomed visitors to its own stand in Hall 6. The hall was once more devoted entirely to home and building control. This year KNX China's stand featured 16 panels by means of which KNX China members could present their latest KNX solutions. Some other members, including local KNX manufacturers, chose to have their own stands in the same hall.

KNX China booth at SIBT in Shanghai

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KNX Colombia – 5th founded National Group in Latin America

In the morning of 29 November 2013, the local representatives of KNX in Colombia agreed to establish the KNX National Group Colombia. This newly-founded National Group is made up of Colombia's most active players in the KNX market, including manufacturers, system integrators, KNX Training Centres, etc. ABB was elected President, Schneider Electric Vice President and Roland Haiber took on the office of Secretary. The KNX Association also participated in Colombia's most popular trade fair for the electrical industry: FISE 2013. Representatives of the KNX Association took the opportunity to host a stand at the fair, which served as a meeting point for the key players in the Colombian market. Seminars introducing newcomers to KNX were also held at the stand in the course of the fair.

The founding members of KNX Columbia

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KNX Croatia at Days of Oris 2013

The international architectural symposium "Days of Oris" was held in the Lisinski Concert Hall in Zagreb from 19 – 20 October 2013. Organised by the Oris House of Architecture and the Oris publisher, this two-day series of lectures gave architects the opportunity to present their work, creative approaches, concepts and personal reflections on architecture to others. Visitors had the opportunity to listen to some of the most important architects of our time, and to new local and international writers on architecture. Renato Krikšic on behalf of KNX Croatia presented to more than 2,000 visitors the KNX technology in the form of a short lecture. Anyone interested could obtain further information from our experts at the stand of KNX Croatia.

Introduction of the KNX Standard during the Symposium "Days of Oris" in Lisinski (Zagreb)

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Non-stop promotion for KNX in Finland

In the fourth quarter of the year, KNX Finland took part in two main events: SÄHKÖ 2013, at which the National Group organised seven seminars with a total of more than 300 attendees, and the traditional Finnish electrical installers' autumn meeting from 21 – 22 October, which attracted more than 300 participants. As a result of these activities, KNX had a large coverage in the Finnish media in September, October and November. This included articles in three major specialist publications: Ylellinen Arki, Tekniikan Maailma, and Tekniikka ja Talous (all with a reader audience of around 100,000).

Johan Stigzelius presenting KNX at the fair Sähko 2013 in Finland

In autumn 2013 KNX Finland featured heavily in major media publications and events addressing the topic of home automation. This resulted in a significant increase in the number of interested parties contacting KNX Finland.

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KNX Germany organises the 4th successful Colloquium

On 8 November 2014, KNX Germany once again welcomed a very large crowd to its KNX Colloquium, the fourth of its kind in the country. The event included highly informative presentations on a wide variety of subjects, attended by a diverse audience of around 120 delegates including system integrators, building designers and manufacturers. Following an opening address by Mr Horst, the Deputy President of KNX Germany, presentations were given on topics such as: room automation and energy efficiency, battery capacities, German and international standards for home and building control, recent and forthcoming extensions to the KNX system, batteryless wireless communication, ETS5, and tips and tricks concerning liability and legal risks for system integrators in the German market. Following a presentation on the VDE Smart Home Certification initiative, a very lively and constructive panel discussion took place involving representatives from manufacturers, system integrators, VDE, and the German Federal Ministry of Economic Affairs and Energy.

Barely a seat was left unoccupied in the conference room

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KNX city event in Greece

Participants of the KNX forum in Athens

On Friday 6 December, the National Group of Greece organised a KNX forum in Athens, focusing on the KNX city concept. The event attracted more than 85 attendees and helped to encourage interaction between the KNX community and the building sector, for example architects and building contractors. It gave the audience, composed largely of engineers, a unique opportunity to learn and understand how KNX is capable of more than just the control of individual buildings, and that it can be used to integrate all kinds of building systems in cities, to thus achieve greater sustainability and energy efficiency.

Vassilios Lourdas, representing the KNX Association International, gave a presentation on the advantages of the KNX technology and its market penetration around the world. Delegates from the National Group member companies (Siemens, ABB, Schneider, GDS) subsequently introduced the KNX city concept.

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KNX Road Show India

From 16 – 27 September, KNX Association and KNX India jointly organised the first ever KNX Road Show India. The Road Show visited the four major Indian cities of Chennai, Kolkata, Pune and New Delhi, stopping at each for two days. On the first day, a KNX Forum was held, at which member companies and guest speakers gave presentations about the advantages of KNX and how KNX is used in practice. On the second day a KNX Training Workshop took place, at which the basics of KNX and the ETS were showcased by certified KNX Tutors from India. With more than 400 participants, the KNX Road Show India ushered in a new era for KNX in India. KNX National Group India and KNX Association would like to thank all the presenters and supporters who made this KNX Road Show such a success.

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First event in the KNX Road Show: KNX Forum in Chennai

The sell-out KNX Forum in Pune

KNX Day Italy 2013: the world at your fingertips!

On 22 November, KNX Italy organised its annual event for the Italian KNX community. The chosen location for the KNX Day was a former factory in Milan, "Officine del Volo", a historic site at which aeroplanes were built at the beginning of the last century – a symbolic place where man made his dream of innovation and progress a reality. In this way, the right place for KNX Italy to meet up with KNX Italian professionals, people who are investing in the KNX technology and opting for innovation: the objective of the meeting to help them expand their businesses.

In the first part of the event, the Italian Association offered a technical workshop on ETS Apps – demonstrating how a number of apps work, in particular the "Reconstruction App" – and also on the KNX city concept. This was followed by a business workshop led by the Director of one of the main centres for economic and market research in Italy, who looked at the prospects for the construction market and the market potential for home and building automation systems in Italy.

Yearly meeting of the KNX National Group of Italy

Unique place for the KNX Event – a former factory in Milan "Officine del Volo"

During the day, members of KNX Italy could make use of an exhibition space to present their latest KNX products to participants. The second part of the event included a ceremony at which the KNX Italy Award 2013 was presented to the best Italian KNX projects in five categories: energy efficiency, social, public administration, hotels, and National. KNX Day 2013 closed with a show by "Da Move", a spectacular freestyle crew.

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First Meeting of japanise KNX Interests in Yokohama

Participants of the KNX Kick-Off meeting

At a Kick-Off meeting on 24 October in Yokohama (Japan), major international and Japanese companies such as Fujitsu, Panasonic, Toshiba, as well as ABB and Wago, expressed an interest in becoming part of a forthcoming KNX National Group Japan. The purpose of the Kick-Off meeting was to introduce the concept of the KNX National Group Japan to the players on the Japanese market. With plenty of discussions on how the Group should be structured and on future activities, this was the first step towards the creation of the KNX National Group Japan. The Group is due to be officially founded in February 2014.

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KNX Korea's participation at the 2013 Smart Home & Building Show is a big success

Smart Home & Building show in Korea

The "2013 Smart Home & Building Show" in Seoul opened on 13 November. Underlining the growing importance of KNX, Mr Ik-Hwan Seo, President of KNX Korea, was invited to open the fair, along with other representatives of major Korean companies and institutions (Mr Ik-Hwan Seo is 3rd from the left at the ribbon cutting ceremony).
Parallel to the fair, KNX Korea also organised a KNX seminar at which more than 100 participants learned about the great potential of KNX and how it offers solutions for home and building control. Because of the growing importance of KNX, KNX Korea was granted a special section at the exhibition centre called "KNX Expo". KNX Expo attracted a large amount of interest from key industry players. This fair not only highlighted the fruits of all of KNX Korea's hard work, but also clearly shows that KNX is THE technology for Korea.

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KNX Middle East's first fair

In 2013 the KNX National Group Middle East successfully participated in its first trade fair "Light Middle East" in Dubai. The KNX installation on display, for which devices were provided by all members of KNX Middle East, attracted a large amount of interest. In recent months KNX Middle East has developed into a very active group. Its activities are not limited to Dubai; it has also organised events all over the Gulf region. More events are currently planned.

Taja Collara, the secretary of the KNX Group Middle East, at the KNX booth

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KNX New Zealand at ECANZ trade fair

On 4 August, the New Zealand KNX National Group attended a trade fair run by ECANZ (Electrical Contractors Association) at the Event Centre in Hamilton. This collaboration with ETCO was a perfect opportunity for KNX New Zealand to highlight its presence on New Zealands market and forge alliances with ETCO. KNX's presence at the fair caused some excitement among integrators as this was the first real public event attended by KNX. KNX New Zealand distinguished itself from all of the other exhibitors by not offering or displaying new products, but by raising awareness with the help of the KNX eCampus Learning Platform. Through this medium KNX New Zealand was able to talk to various key industry players and educate them about the National Group of New Zealand and the breadth and depth of KNX with its open protocol and its large number of international members.

Heinz Lux (2nd from right) and the Board members of KNX New Zealand

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KNX The Netherlands organises successful conference on "How to couple a smart home to the smart Grid"

As it seems to have the habit of doing, KNX The Netherlands again organised a well-attended event near the city of Utrecht on 5 November 2013, and this time the main topic was the role of the smart home/building in the future smart grid. The morning was devoted to presentations by several speakers, including Mr den Hartog of TNO who explained the concept of the Internet of Things, Joost Demarest – CTO of KNX – explaining the marketing and technical implications of the KNX city concept, two speakers presenting specific smart grid projects, and a concluding presentation on e-vehicles.
In the afternoon a conference was held primarily for building designers and consultants. In the first three presentations, Siemens' KNX The Netherlands representative talked about KNX's main assets from a general perspective, KNX International looked at the same question in terms of facts and figures, and a Dutch KNX integrator looked at it from a practical point of view. The day finished with a detailed presentation by STABU on how to quote for building automation services.

A full conference room of delegates listening to one of the presentations.

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"Building automation with the KNX standard" conference

In September 2013, as part of the ENERGETAB fair in Bielsko Biala, the KNX Association Poland organised a conference entitled "Building automation", which was attended by a large number of representatives from scientific and commercial institutions and companies.
Andrzej Stachno from the University of Technology in Wroclaw and Dr Marek Suproniuk from the Military University of Technology looked at building automation from a theoretical point of view. The presentation by Krzysztof Zasko, who has tremendous experience as a system integrator, attracted the most interest. KNX Association Poland members were represented by Pawel Maruszynski, who explained the capabilities of KNX systems to the audience, and Jan Worobiec, the Chairman of the KNX Association Poland, who welcomed guests and emphasised that a well thought-through project is a prerequisite for a good KNX installation. Amongst the conference participants, designers of electrical installations and integrators were the largest represented group. All participants could also visit the KNX Association Poland's stand to obtain even more information. Additionally, participants could talk directly with the KNX Association Poland's representatives: they therefore asked a large number of questions and expressed a desire to learn more about all aspects of designing installations based on the advanced KNX standard.

Participants at the conference "Building automation" as a part of the fair ENERGETAB in Bielsko Biala

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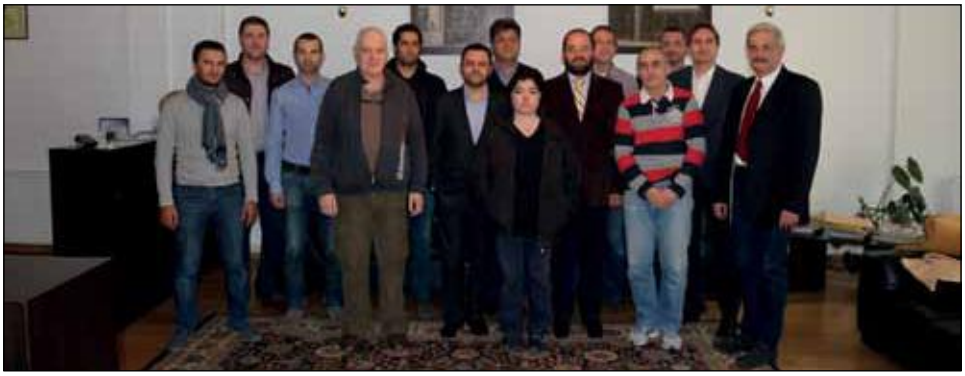
KNX National Group Romania successfully founded

As part of its expansion across Europe, KNX has now arrived in Romania, the eighth-largest country in the European Union by area, and the seventh-largest in terms of population. KNX Romania was the last KNX National Group that was founded by KNX Association in 2013, shortly after KNX Uruguay and KNX Chile saw the light. 13 companies joined the national association at its founding meeting on 20 November. The following companies became representatives of the Board of KNX Romania: Nagy Ferenc (representing Napa Impex) as President, Mrs Marian Simtinica (Amavys Project) as Vice President, and Mrs Cristina Marola as Secretary.



Founding members of the KNX National Group Romina

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KNX city at Hi-Tech Building and Interlight

In October and November 2013, KNX Russia participated in two of the sector's highest-profile events in the country: Interlight Moscow and Hi-Tech Building.
A conference entitled "Mobile platforms (iOs, Android) in KNX projects" was held as part of the 12th international Hi-Tech Building trade fair (29 – 31 October, Moscow). In the first part of the conference, leading KNX manufacturers (ABB, Gira and Schneider Electric) presented their latest products to more than 80 professionals. The second part of the conference consisted of system integrators giving presentations about their experience with mobile solutions for KNX. KNX Russia constructed a KNX stand at the fair covering more than 50 square metres. Members of the KNX National Group were able to present their solutions to visitors at this stand, which were complemented by KNX city solutions also on display there. The KNX stand thus served not only as a meeting point for visitors but also as a key point of contact for trade professionals working in the area of home and building control, at the same time being an opportunity to learn about the solutions available for creating more sustainable cities based on KNX technology.

KNX at Interlight 2013 in Moscow

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KNX Competition 2013 in Singapore

The KNX Competition was successfully organized on 8 October 2013 with full support from the members of KNX South East Asia. In the competition, held at the Centre of Technology at ITE College East, each finalist had to complete a KNX Diagram and a KNX Cabling Connection, and perform KNX Programming using ETS4.

The competition's objectives were to promote the KNX technology and to allow participants from educational/technical institutions to demonstrate their skills in KNX cabling and KNX programming. Singapore Polytechnic, Republic Polytechnic, ITE College West and ITE College East were responsible for the training and qualification rounds, after which they each selected their two best candidates to represent their institution in the finals.

Participiants during the KNX competition in the ITE College East

The results of the competition were as follows:

- Champion: Yeo Jia Hao Dave, ITE College East
- 1st Runner Up: Chan Shi Wei, ITE College East
- 2nd Runner Up: Foo Kai Xiang, Singapore Polytechnic

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KNX city and technical workshops held in South Africa for the first time

In July 2013, KNX South Africa, in collaboration with KNX Association International, organised its first KNX city and KNX technical workshop in the major city of Johannesburg.

The first day of the event started with a presentation sharing some general KNX facts and figures to illustrate KNX's exponential growth worldwide, after which participants were introduced to the KNX city pillars. The audience, mainly professionals from the consultancy side of home and building automation, showed great interest in the new solutions presented and in how they could use these in their future projects. The event ended with presentations by two LEED consultants, Jesús Arias and Simon Berry, who explained how to achieve a higher score in the LEED certification process by using KNX technology in projects.

Simon Berry, consultant specialized in LEED and KNX during the KNX city event.

The next day, KNX International held a more specialised seminar entitled "How to Boost your Business with KNX", a workshop aimed primarily at local manufacturers interested in implementing KNX technology in their products.

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KNX Taiwan at Taipei International Building, Construction & Decoration Exhibition

From 12–15 December 2013, KNX Taiwan participated in the annual Taipei International Building, Construction & Decoration Exhibition. This, Taiwan's biggest construction industry trade fair, attracts visitors from various backgrounds, including architects, developers and construction companies.
The presence of KNX at this fair was very much felt, and enabled more than 3,000 manufacturers, suppliers, architects and system integrators to learn about the advantages of KNX. The main attraction at the stand was the KNX Demo Board, which KNX Taiwan used to promote KNX with the help of products from all of KNX Taiwan's member companies. The central message communicated to visitors was: choose KNX if you want home and building automation that is guaranteed future-proof.
KNX Taiwan's great success at the fair is a reflection of the ever-growing importance of KNX in Taiwan. The Group already has more activities planned, including more KNX events in the country.

Samuel Yang, Secretary of KNX Taiwan, showing the Group's KNX Demo Board to visitors at the KNX stand

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KNX Uruguay, a small country with big potential

Representatives of the new KNX National Group Uruguay

Immediately following the founding of KNX Chile, KNX continued its internationalisation activities in the second-smallest nation in South America by area: Uruguay. The country has been involved in KNX for several years, with the first KNX Training Centre in the country established in 2010. The first Uruguayan KNX Scientific Partner joined the KNX community in 2011. Following high demand for KNX in Uruguay, KNX Association placed special emphasis on this country, which culminated in the KNX National Group Uruguay founded on 1 November 2013. 17 companies joined the new KNX National Group. The office of President is held by ABB, the position of Secretary is held by Tecmany (representative of Elero, Vestamatics and Sommer), and Lis Lumínica (system integrator and representative of Jung) is Vice President.
The founding meeting was organised in parallel with an introduction to the KNX technology and the KNX city concept. The event attracted more than 60 participants, who demonstrated a high level of interest in KNX, a clear indication that KNX can look forward to a bright future in Uruguay.

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New Training Centres

ITALY
ABB SACE Division

ABB SACE KNX Training Center

In 2010 ABB Italy launched its KNX certified training center in Vittuone, contributing to spreading KNX Building Automation knowledge and expertise all over Italy, among different customers. More than 70 people attended the KNX basic course so far and became a KNX partner. Now a second KNX certified training center in the ABB factory in South Palomba, near Rome has been set up in order to facilitate spreading KNX knowledge in the center and southern part of Italy, allowing people to follow KNX training sessions more easily. The training room is fully equipped with different KNX devices in order to cover all building automation applications such as lighting, shutters, HVAC systems,… Both basic and advanced applications such as constant lighting control, DALI lighting, energy & load management, security & safety, visualization and centralized control can be set up and taught.

Contact: *www.abb.com*

SWITZERLAND
ABB Schweiz AG, Low Voltage Products, Baden

Since 2002, ABB Schweiz AG runs a training center for KNX product training. ABB has recognized early on that in addition to continued extension of functional product possibilities also education of system integrators is essential. Therefore, in Switzerland, ABB is a pioneer in the field of KNX application courses. Since 2009, the training center is located in Baden. Today ABB Schweiz AG offers various KNX application and product training. They for instance offer courses in the areas of lighting control with DALI, blind control with sun position tracking and room temperature control according to Minergie-Standard, etc. By continuingly adapting the course program to the needs of the market, the customers of ABB Schweiz AG are always in for an interesting course program.

Contact: *www.normelec.ch*

FINLAND
BEMI

BEMI is one of Finland's four certified KNX Training centres. It arranges personal courses for professionals as well as electrical engineering students on a regular basis. Courses are offered in Swedish in cooperation with the Novia University of Applied Sciences. BEMI is a planning agency specialized in lighting design, KNX system integration as well as KNX product development.

Contact: *www.bemi.fi*

GERMANY
BSB-Beschäftigungs-, Service- und Beratungsgesellschaft mbH

BSB

Bildungs-, Service- und Beratungsgesellschaft mbH Trier sees its main business in the field of adult education, personnel services and IT services. They provide top of the line theoretical and practical training to support their students with various electrical trades. They offer the basic KNX introductory courses for those interested in the technology and provide a practical approach leading to the KNX basic course certificate after a successful exam. Next to the activities in Trier they offer the possibility of KNX training at the customer's site. Their training equipment follows the philosophy of KNX and consists of products from various reputable manufacturers.

Contact: *www.bsb-trier.de*

GERMANY
BTZ des Handwerks GmbH

BTZ des Handwerks

BTZ des Handwerks (training and technology centre of craft) is one of the major training institutes in Germany's north-west. It offers training in construction, heating, health facilities and air-conditioning, metal works and machine building, joinery, painting and paperhanging, automotive engineering and electronic applications to customers from all over Germany. Full-time or after work courses are given in (selection): welding, photovoltaics, hydraulics / electrical hydraulics, solar technology, pneumatics / electrical pneumatics, wind power engineering, PLC and KNX. The courses are held in workshops with adjacent class rooms to provide easy transfer from theory to practical application. Also all KNX courses will be offered in this setting to improve learning effects and to give the attending people the opportunity to make the best of their participation.

Contact: *www.btz-handwerk.de*

ISRAEL
Control4U

Control4u is a company that highly specializes in the KNX worldwide standard for home automation and building control. It focuses on system integration between KNX systems and audio video systems. Control4U is an authorized distributor of KNX products for KNX Member companies MDT Germany and Zennio Spain, as well as dealers of Control4 home automation systems. Now Control4U has also decided to become a KNX Certified Training Centre and to offer basic courses in Israel to all interested in the KNX technology.

Contact: *www.control4u.co.il*

INDIA
KNX Solutions/ Entelechy

Entelechy Systems has served as a KNX system integrator in India for over a decade. It aims to enlighten the minds with modern techniques in building installations. To meet the growing demand on the Indian market for comfortable, secure, energy efficient and intelligent systems, it is looking forward to offering KNX training courses and guidance to electrical contractors, consultants and produce new KNX Partners. This training center will give the participants a practical experience with real KNX devices and help them in designing, installing and creating KNX systems. Entelechy's objective is to train its students according to industry needs and the need to operate in a rapidly changing customer-oriented environment in the areas of emerging technologies.

Contact: *www.entelechysystems.com*

GERMANY
Handwerkskammer Flensburg

Handwerkskammer Flensburg is a service center of crafts in the North and West of Schleswig-Holstein. As a public corporation and self-governing body of crafts, Handwerkskammer Flensburg represents the overall interests of the total of 10,800 member companies with around 50,000 employees in relation to politics and society. In addition to the broad range of advice for member businesses, the Chamber of Crafts also takes part in vocational training, the examination system and keeping the holding register (Skilled Trades). In the past year, approximately 500 courses of training and continuing education were given to approximately 4,000 participants.

Contact: *www.hwk-flensburg.de*

GERMANY
Handwerkskammer zu Leipzig Bildungs- und Technologiezentrum

Handwerkskammer Leipzig provides training in over 30 crafts in the education and technology center Borsdorf. Thus, apprentices and master craftsmen are trained in the electrical engineering craft and they are offered a variety of training and further education. As part of the higher education for craftsmen and the higher education for enterprises the Education and Technology Centre Borsdorf is teaching since years the contents of bus technology to trainees in order to meet the requirements for building control systems. Through education by highly trained staff, the application of the latest programming software and a modern equipped workshop, a high-quality education is ensured.

Contact: *www.hwk-leipzig.de*

SPAIN
ICM Ingenieria Formacion Tecnologica

ICM INGENIERIA is an engineering company formed by a multi-disciplinary group of professionals dedicated to design and providing consulting services to development projects and implementation of new technologies in residential and industrial areas. The experience gained over the years in several fields of engineering motivated the company to create a new department in the company's structure: ICM Training. There is a growing demand for KNX training in the north of Spain, and ICM is in the position – thanks to its experience and skills – to train new KNX professionals, in this way supporting this new demand for automation services. ICM's goal is to educate and train new professionals in building and industrial automation, as well as environmental management and information technologies.

Contact: *www.icmingenieria.com*

DENMARK
KNXpro

KNXpro has many years of experience on the Scandinavian market. KNXpro handles all aspects of KNX projects, including planning, programming as well as commissioning, both in private as well as public buildings. The main focus of KNXpro is to teach and train new specialists in using KNX as a building management system for controlling the complete indoor climate. For this, there is a need for all kind of sensors and visualizations system to allow the end user to easily control and monitor the system. KNXpro will offer the customer both standard and customized courses mainly at the customer's location or in cooperation with suppliers, universities, technical colleges or local organizations. In this way, KNXpro acts as an independent player on the market with the aim to increase the use and knowledge of KNX systems and boost the use of KNX as an international standard for BMS systems.

Contact: *www.knxpro.dk*

COLOMBIA
Palomino Training Center

The Palomino Training Center offers KNX Basic and Advanced courses according to the requirements of the KNX Association. With its certified KNX Tutor, the training centre has the appropriate staff to teach both courses and is also a well-equipped for the practical part of the courses. The training centre has developed the necessary teaching equipment (Audiovisual, Sound, notes, etc.) to make the course an interesting experience for all participants. As a complementary service, the training centre will offer advice, consultancy, upgrade courses, events and promotion for the KNX Protocol. Palomino Training Center established several alliances with universities and R&D institutes for the development of products and services based on the KNX Protocol.

Contact: *www.palominosolutec.com*

GERMANY
Preiser Automation

The family company Dipl. Ing. Preiser MRT oHG is expanding its product range in the area of automation. Previously they were mainly occupied in the area of planning. With the focus on programming and commissioning of KNX systems they will in the future offer KNX certified basic courses for the Rhine-Main area in the newly built training area. Furthermore, the aim is not to limit the KNX activities only to certified basic courses. They plan to offer KNX training courses (without certification) – limited from one to a maximum of three days with short insights and guidelines for configuration, programming and maintenance of KNX systems. In addition, information days and evenings will be offered in the future to present the possibilities of KNX to the end user.

Contact: *www.preiser-technik.de*

SPAIN
Provitel 2030, S.L.

PROVITEL 2030, S.L. is as integrator a listed KNX Partner of the KNX Association. Presently, Provitel 2030 provides program developing services and trading in KNX Technology equipment. PROVITEL 2030, S.L. became the first certified KNX Training Centre in eastern Spain (Murcia). PROVITEL has proven compliance to the KNX requirements and has thus been authorized to organize training programs and basic as well as advanced courses. The Training Centre carries out other activities such as lectures and conferences to spread the advantages of the KNX interoperable technology, as used to save energy and to control lighting, heating, security,... in home and buildings. PROVITEL 2030 now focuses its activities around three different topics, all of them KNX Technology-related: trading, training and integration.

Contact: *www.provitel2030.es*

DENMARK
TEC Kursus afd

TEC is a large vocational college with a long standing history and a dedicated focus on future challenges and demands. TEC has a history of more than 135 years and operates from several campuses in the greater Copenhagen area. At each campus it offers a wide scale of educational programs. By staying in close contact with social partners, companies and relevant institutions in and outside Denmark, TEC constantly works on keeping its programs up-to-date. TEC educates skilled technicians in the areas of electrical power, SRO and IT. This education and training includes intelligent building systems. TEC provides electrician training specializing in building automation four times a year. TEC teachers are using several different building automation systems, including KNX which has already been used for several years.

Contact: *www.tec.dk*

New Scientific Partners

GERMANY
Hochschule Bonn-Rhein-Sieg

Hochschule Bonn-Rhein-Sieg
University of Applied Sciences

The Bonn-Rhein-Sieg University of Applied Science has decided to join the KNX Scientific Partnership Forum, recognizing the high relevance of the open standard and following requests from local industry partners. KNX as the major standard for home automation will become part of teaching and training courses in the Bachelor and Master programs of the university. Initial activities are planned in the departments of Computer Science and the Electrical Engineering department. Besides teaching, a major focus of the University is expected to be on reliability, scalability, security, and encryption. A deployment and integration of KNX to home media environments is on the agenda, as well as proposals for possible extensions of the standard where necessary. Further activities will be derived from the requirements of industrial partners. Contact person at the University is Prof. Dr. Karl Jonas.

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LITHUANIA
Kaunas University of Applied Engineering Sciences

Kaunas University of Applied Engineering Sciences (Lithuania) recently introduced several new student teaching facilities, including a modern KNX training laboratory. The laboratory equipment was designed and manufactured in co-operation with UAB "JUNG Vilnius" (Lithuania) and currently includes basic automation and control-related components based on KNX. In the near future the teaching material will be prepared for students and a full curriculum will be included into the Electronics Engineering study program. The future plans also involve the design of advanced training equipment and implementation of KNX-related research activities.

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KNX Userclub / KNX Professionals

Successful KNX Professional Conference

The final meeting of the year of the KNX Professionals Germany took place in Rendsburg and had as headline "Smart Home/ Smart Grid – what does the future have in store?". The first speaker, Dr. Wolgang Klebsch of VDE, informed the participants about the status of the planned certification program Smart Home. Udo Neumann of Schneider Electric gave an overview of the interfaces between the smart grid and buildings and presented smart grid using the research project of the EUREF Campus in Berlin as a basis. Also energy storage systems (EESS) and PV solutions for storage application in the context of smart home were part of the project.
The Product Manager "Building Systems Engineering" of Gira, Andreas Kobold, presented a number of novelties. Right after that, Klaus Dasbach of easyKom GmbH located itself in Rendsburg talked about M2M solutions. Björn Iwers made the closing speech of the first day: he is team leader 'DLS products' in the department 'Products and Offers' and presented the Consumer Smart Home System of mobilcom-debitel GmbH. The second day was devoted to matters directly concerning the KNX Professionals Association. In the mean while 1112 KNX Professionals are member of the Association. The conference was concluded by an abundant dinner at the Pelli Courtyard, followed by a guided tour of the most important landmarks in the center of the city, this by a guide donned in a historical dress.

KNX Professionals Germany at their meeting in Rendsburg

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KNX User Group Hong Kong successfully kicked off

KNX User Group Hong Kong Members during foundation meeting

On October 24th, the KNX User Group Hong Kong was successfully kicked off. Members of this User Group, which will promote KNX in Hong Kong, are ABB, Hager, HDL, Hong Kong Polytechnic University, Jung, Longchuan, Suffice, and TÜV Rheinland. Many events, such as workshops and fair participations, have been agreed on. This will be the beginning of a constant raise of awareness for home and building control with KNX in Hong Kong, a market with a huge potential.

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First KNX Userclub outside of Europe founded – KNX Userclub India

On September 23rd, KNX wrote a new chapter in its on-going internationalisation: The foundation of the KNX Userclub India. The interest for the first KNX Userclub based outside Europe, was enormous! 35 participants from different Indian companies joined the foundation meeting to become part of the KNX Userclub from the very start. Next to the general structure of the KNX Userclub, first activities were discussed. This KNX Userclub started on a high level of enthusiasm and potential and the future for this KNX Userclub as well as all other activities in India looks very promising indeed.

Foundation Meeting of KNX Userclub India

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KNX Kuwait Userclub Foundation during Buildings Automation Technology Event

At the governmental educational institute "Public Authority for Applied Education and Training" (PAAET) in Kuwait City, for the first time the Buildings Automation Technology Event was organized from 27th till 29th of October 2013.
At the concurrent fair, the attendees could visit the booths of participating organizations or companies, including ABB and Schneider Electric organising short training sessions on KNX.
Highlight for KNX was the foundation of the KNX Usergroup Kuwait. This group, which will act under the umbrella of PAEET and Kuwait Society of Engineers, has already attracted much attention and will surely open the market for KNX in Kuwait and the other GCC-Countries.

The picture shows a interested crowd at the concurrent fair organised during the PAAET Buildings Automation Technology Event

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Wholesalers support the KNX Professionals network

Dutch electronics wholesalers have been increasing their support for the KNX network in 2013. End 2012 KNX Netherlands decided to open its association for technical wholesale companies, allowing them to also join as a member. As a result, a few months later several large national chains of companies joined as a KNX Wholesale Partner. In the course of 2013 some smaller specialised wholesalers also joined in. In the meantime The Netherlands counts eight different KNX Wholesale Partners, together representing more than 100 selling points. Employees of each KNX Wholesale Partner can participate in KNX networking events. They can moreover promote themselves as a KNX specialist on the website of the KNX Professionals.
It is clear that more and more wholesalers want to obtain the label as a specialised supplier of KNX products. Several wholesalers offer KNX introductory courses, sometimes in cooperation with KNX manufacturers and top of that, also some of the wholesalers conduct KNX certified basic courses for their customers. With all these actions, wholesalers will surely help to expand the network of KNX Professionals in the next years.

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KNX at International Conferences / Fairs

Melbourne (Australia)

KNX and NECA working together

The KNX National Group and the National Electrical and Communications Association (NECA) proudly announced that they will be working together in Australia to promote the move towards compatible platforms across the electrical industry. NECA is the peak body of the electrical and communications industry of Australia. The two organisations share important synergies given the wide range of electrical and communication products available on the Australian market. NECA members will benefit from KNX's manufacturer-independent open protocol providing a truly converged solution in home and building automation on a single platform. As an international standard (IEC14543), KNX allows NECA members to protect the future requirements of a project

Ian Richardson (President KNX Australia) and Wes McKnight (President NECA Australia) signed the co-operation agreement.

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Medellin (Colombia)

KNX at FISE, the first official KNX representation in Colombia

For the past few months, KNX Association has been prospecting the Colombian market for opportunities. After positive feedback from the professionals on the market, KNX Association decided to participate in the most popular exhibition of the electrical sector: FISE 2013. Representatives from KNX Association had taken the opportunity to deploy a booth, which served as a meeting point for the most active players in Colombia. Moreover, KNX introductory seminars for newcomers were given at the booth during the days of the exhibition.

The KNX booth at FISE 2013

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Johannesburg (South Africa)

IDX Johannesburg becomes first KNX accredited test lab on African continent

On the 8th and the 9th of December 2013, the KNX audit team visited the company IDX – short for Industrial Data Xchange' – just outside Johannesburg (South-Africa) to check its ability to perform KNX Interworking/Functionality tests on behalf of KNX manufacturers requesting KNX certification of their devices. The company is already active as a listed KNX certified training center offering KNX basic courses. The audit as usual consisted of a part to check the lab's compliance to the ISO 17025 standard and a part to verify the competence to perform Interworking tests. The results being very positive and IDX can become the first KNX accredited test laboratory on the African continent.

The IDX Quality Manager Filip Paluncic and the IDX Technical Manager, Ryan Coetzee in the presence of the KNX audit team.

Contact: *http://www.knx.org/knx-en/community/test-labs/list/index.php*

Shanghai (China)

First KNX Scientific Forum in China

The first KNX Scientific forum was held on September 26th 2013 at the Shanghai Intelligent Building Technology exhibition (SIBT). The attendance was large and the visitors were strongly interested in the presentations. Among others, the Jianzhu University Shenyang (the first Chinese KNX scientific partner) introduced the audience to their Chinese-German smart home project. The Tianjin University of Technology and Education informed about their experience with KNX during WorldSkills 2013 in Leipzig, Germany.

The KNX Presentations at the forum could count on lots of interest from all participants

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Luxembourg (Luxembourg)

Successful KNX National Group Workshop in Luxembourg

In September, KNX celebrated the 9th Edition of the KNX National Group Conference, in which 18 KNX National Groups shared their experiences and discovered new ideas from their fellow national groups. The target of the meeting was to share experiences between all National Groups on promoting KNX. Different delegates as well as representatives of KNX Association International put forward new ideas and motivated them. It was remarkable to see what all KNX National Groups have achieved so far and what they are planning for 2014. This occasion underlined the increasing importance of KNX, since the Prime Minister of Luxembourg, Xavier Bettel, together with the President of KNX Luxembourg, Marco Zenner and the Secretary Alphonse Massard, opened the conference. We are looking forward to welcoming all NGs to Dubai (United Arab Emirates).

The representatives of the National Groups during the conference

Contact: *info@knx.org*

Kuwait City (Kuwait)

Public Authority for Applied Education and Training (PAAET) in Kuwait organizes Buildings Automation Technology Event

At the governmental educational institute PAAET in Kuwait City, for the first time the Buildings Automation Technology Event was organized from 27th till 29th of October 2013. The event, with a strong focus on KNX, consisted of a conference part and a fair part. The Conference was opened by the PAAET General Director, followed by Joost Demarest (CTO of KNX) again summarizing KNX' strong points, informing about KNX' activities in the Golf region and setting out the focal points of the cooperation between KNX and PAAET. Ms. Al-Naqib from the Kuwait Institute for Scientific Research made an interesting contribution on smart building requirements and barriers. Tarek Zakaria, President of KNX Middle East rounded off the conference of the first day with a speech on the remarkable development of KNX over the last 20 years. At the concurrent fair, the attendees could visit the booths of participating organizations or companies, including ABB and Schneider organizing short training sessions on KNX.

A full conference hall of the the PAAET during the conference part of the Building Automation Event

Contact: *info@knx.org*

Seoul (South Korea)

KNX Korea signed MOU with Seoul Messe

After last year's big success at the Smart Home Building Show, KNX Korea went one step further to raise the awareness for KNX in Korea. On the 9th of August, KNX Korea and Seoul Messe celebrated the signing of a MOU, which will make KNX Korea the mainstay of the biggest show for building automation in Korea. Two years after the foundation of KNX Korea, this KNX National Group has evolved from a small number of member companies to one of the strongest groups in Korea. This success will also not only affect the developments of home and building control in Korea, but also worldwide.

MOU signing celebration: Mr. Ik-Hwan Seo (middle) with representatives of Seoul Messe

Contact: *info@knx.org*

Datong (China)

KNX dinner during the Solar Decathlon China 2013

KNX China organized a KNX Team dinner in Datong during the Solar Decathlon China 2013. The Solar Decathlon is an international competition for universities to design and build energy self-sustaining solar homes. More than 20 teams came to Datong and competed in ten disciplines against each other. Some teams used the KNX technology. In order to get to know the teams' innovative technical approach, KNX China organized a dinner for the participants. More than 50 people from 13 universities participated in the dinner and shared their experience with KNX. KNX congratulates the winning Team UOW.

All participants of the KNX dinner in Datong

Contact: *info@knxchina.org*

Athens (Greece)

ETS Apps Workshop in Greece

More than 65 KNX Partners and system integrators from all over Greece attended the ETS Apps Workshop, which was organised by the National Group of Greece in Athens on the 7th of December. During the Workshop, the attendees were given a short introduction about the evolution of the KNX software tools followed by a presentation on ETS Apps. These topics were presented by Vassilios Lourdas, the System Engineer and responsible for ETS Apps at KNX Association international. The delegate Tutor of the National Group, George Lazos, presented the functions and the advantages of four different ETS Apps. This topic was very well received by the participants, especially by those until then unfamiliar with the topic of ETS Apps. Last, but not least, it is worth mentioning that it was the first time that all presentations were made in the local language to the Greek audience, a fact that shows the importance of the internationalization of KNX.

The Greek spectators enjoying the ETS Apps presentations

Contact: *geolazos@otenet.gr*

Velbert-Heiligenhaus (Germany)

KNX Association presents KNX Secure at Innosecure

Innosecure is a fair and exhibition for the access and safety industry. The second edition on September 25 – 26 in Velbert-Heiligenhaus, Germany, focused even more on the integration of the technologies and the Trusted Service Manager. This poses challenges to the in-house communication, which can in full be answered by KNX Secure, the recent KNX Extension supporting authentication and confidentiality (encryption).

Lukas Krammer during the KNX presentation at Innosecure

Lukas Krammer of TU Vienna took the honours introducing to the visitors KNX and KNX Association. He explained the features, protocols and technology of KNX Data Security and KNX IP Secure.

Contact: *info@knx.org*

Hong Kong

Successful KNX tutor crash course in Hong Kong

From 21st till 23rd of October, KNX Association again conducted a KNX crash course for potential tutors at existing or future Asian KNX certified training centers. This time the course was hosted by TÜV Rheinland in Hong Kong and welcomed 13 participants, coming from Singapore (four new tutors from the already certified training centers ITE West and East and one from the member company Schneider Electric), Taiwan

All participants of the KNX tutot course in the entrance hall of TÜV Rheinland Hong Kong.

(from the member company HEP) and Hong Kong (from the host TÜV Rheinland itself, from Schneider Electric Hong Kong, from the KNX electronics distributor Suffice, from the member company Jung and from one local System Integrator). 12 out of the 13 participants successfully passed the concluding theoretical and practical exam. KNX congratulates all new tutors!

Contact: *info@knx.org*

Kuwait City (Kuwait)

Tutor course at the Public Authority for Applied Education and Training (PAAET)

For the second time, KNX International organized a KNX tutor crash course in the Gulf region. After Dubai, the course was this time hosted by the governmental educational institute PAAET in Kuwait City (from 27th till 29th October 2013). Nine tutors from this institute enrolled for the course, consisting of a thorough online self-study before the actual course, a two day intensive training highlighting the main points of a number of chapters from the KNX standardized training documentation and a one day concluding theoretical and practical exam. Four tutors eventually succeeded in positively concluding the exam, bringing the total number of certified tutors to five at PAAET. KNX congratulates the new KNX tutors and expresses its thanks for the received hospitality and hosting of the event.

The candidate KNX tutors fully concentrated on the solving of the KNX tutor theoretical exam.

Contact: *info@knx.org*

Brussels (Belgium)

New Video: Advantages of KNX

KNX Association is now offering a new video on the advantages of KNX. This shows in an easy and informative way what KNX is and what different benefits it brings. The video can be used to give new business contacts a short introduction on KNX. The video is available in several languages and more translations will follow.

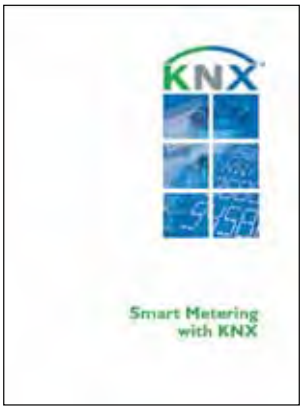
Contact: *www.youtube.com/knxAssociation*

The video shows the most important advantages of the KNX system

Brussels (Belgium)

New Smart Metering Flyer now available

Because of the increased awareness for energy conservation and as KNX' answer to the Smart Metering trend, KNX Association has published a flyer entitled "Smart Metering with KNX". This brochure gives information on smart metering & KNX, the KNX Metering Specification, a KNX product overview, how to connect M-Bus meters to KNX and much more. If you are interested, the flyer is downloadable: it is available from the download section of the KNX website. The flyer is available in six languages.



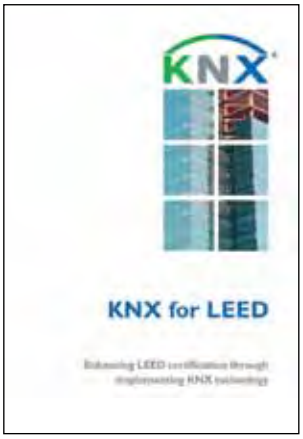
Contact: *http://www.knx.org/knx-en/knx/application-areas/smart-metering/knx-metering-is-smart/index.php*

The new Smart Metering flyer

Brussels (Belgium)

New book now available: KNX for LEED

KNX Association now offers a new book, called: "KNX for LEED, Enhancing LEED certification through implementing KNX technology". This guide describes in a simplified way, solutions to comply with LEED strategies. Without going into too many technical details, a knowledge base is offered that serves as orientation for the sustainable buildings consultant. Any professional familiar with the principles of LEED certification will find out how the standard KNX technology can help in the implementation of numerous strategies that are taught in the official LEED training, as well as in complying with numerous credits in order to obtain a particular level (platinum, gold…). This is precisely the content of this guide: concrete solutions for LEED strategies, through the use of standard KNX technology.



The book is available in English and Spanish and can now be ordered in the KNX Online Shop: http://onlineshop.knx.org

KNX Conferences / Fair Schedule

2014

EL & TEKNIK 2014
6. – 8. 5. 2014

Odense (Denmark)

Exhibition for electrical distribution, electrical equipment, lighting and ICT.

www.elogteknikmessen.dk

KNX Training Centre Conference
8. – 9. 05. 2014

Pamela (Lisbon, Portugal)

The meeting point for KNX certified training centres where the newest developments of ETS and KNX are shown.

http://www.knx.org/knx-en/community/training-centres/tc-conferences/index.php

Eliaden 2014
2. – 5. 6. 2014

Oslo (Norway)

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

www.eliaden.no

Electrical Building Technology Guangzhou
9. – 12. 6. 2014

Guangzhou (China)

The biggest lighting exhibition in Asia

www.messefrankfurt.com.hk/fair_homepage.aspx?fair_id=15&exhibition_id=16&hdnLang=en

PREDIALTEC 2014
11. – 13. 8. 2014

Sao Paulo (Brazil)

The bigest Brazilian trade show focus on audio and video control as well as home and building automation

www.predialtec.com

Shanghai International Intelligent Building Exhibition
3. – 5. 9. 2014

Shanghai (China)

The exhibition aims at brand-building and makes great efforts to invite professional buyers

www.messefrankfurt.com.hk/fair_homepage.aspx?fair_id=51&exhibition_id=56&hdnLang=en

KNX National Group Conference
30. 9. – 2. 10. 2014

Dubai (UAE)

Yearly conference for all KNX National Groups

www.knx.org

Euroskills 2014
2. – 4. 10. 2014

Lille (France)

Europe's largest international skills competition

www.euroskills.org

Hem & Villa Stockholm
2. – 5. 10. 2014

Stockholm (Sweden)

The largest do it yourself trade fair

www.hemochvilla.se

MATELEC 2014
28. – 31. 10. 2014

Madrid (Spain)

An ideal platform to present the new developments related to HBS and telecommunications.

www.ifema.es/ferias/matelec/default.html

Interlight Moscow
11. – 14. 11. 2014

Moscow (Russia)

International Trade Fair for Decorative and Technical Lighting, Electrical Engineering, Home and Building Automation

www.interlight.messefrankfurt.ru

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.

Online Distribution

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

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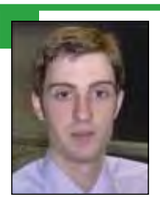

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