

KNX U.motion

Bringing Spaces to Life

The Perfect LifeSpace Management System



Schneider
Electric



Complex requirements demand simple solutions

Every building demands its own intelligent solution, and every customer has its individual request. Increasingly more technologies are playing major roles, and their integration to be taken into account during planning of the project to achieve the requested functionality.

In addition to the technical challenge, the customer's desire for simple operation is also an important factor. This is the key to success. No matter how complex the control technology in the background is, your customers expect the very opposite from the handling: intuitive simplicity.

Get your customers into a comprehensive building control format that matches their active and digital lifestyle. It has never been so easy to create individual, energy-efficient and mobile building control solutions. U.motion LifeSpace Management fulfils your customers' wishes, while ensuring the best working conditions for you.



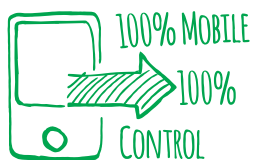
Flexibility

thanks to scalability, user-orientation and compatibility



Simplicity

of planning, installation, configuration and operation



Mobility

via convenient applications for mobile devices



Energy Efficiency

from measuring to visualisation to intelligent Energy Management

Perfect LifeSpace Management

Design comfortable and energy-efficient LifeSpaces where your customers will live, work and feel good: in private homes, villas, offices or even shops.

Convert building control into a comprehensive LifeSpace Management system, the solution that packs all the expertise of Schneider Electric. This is because U.motion combines products and technologies into an intelligent and energy-efficient solution which can be controlled easily and wherever you are. An uniform user interface on all devices allows your customers to control all KNX building functions – intuitively and conveniently.

The U.motion system is efficient

U.motion allows you to monitor consumptions and to realise active energy management.

The U.motion system is simple

- in installation
- in configuration
- in operation

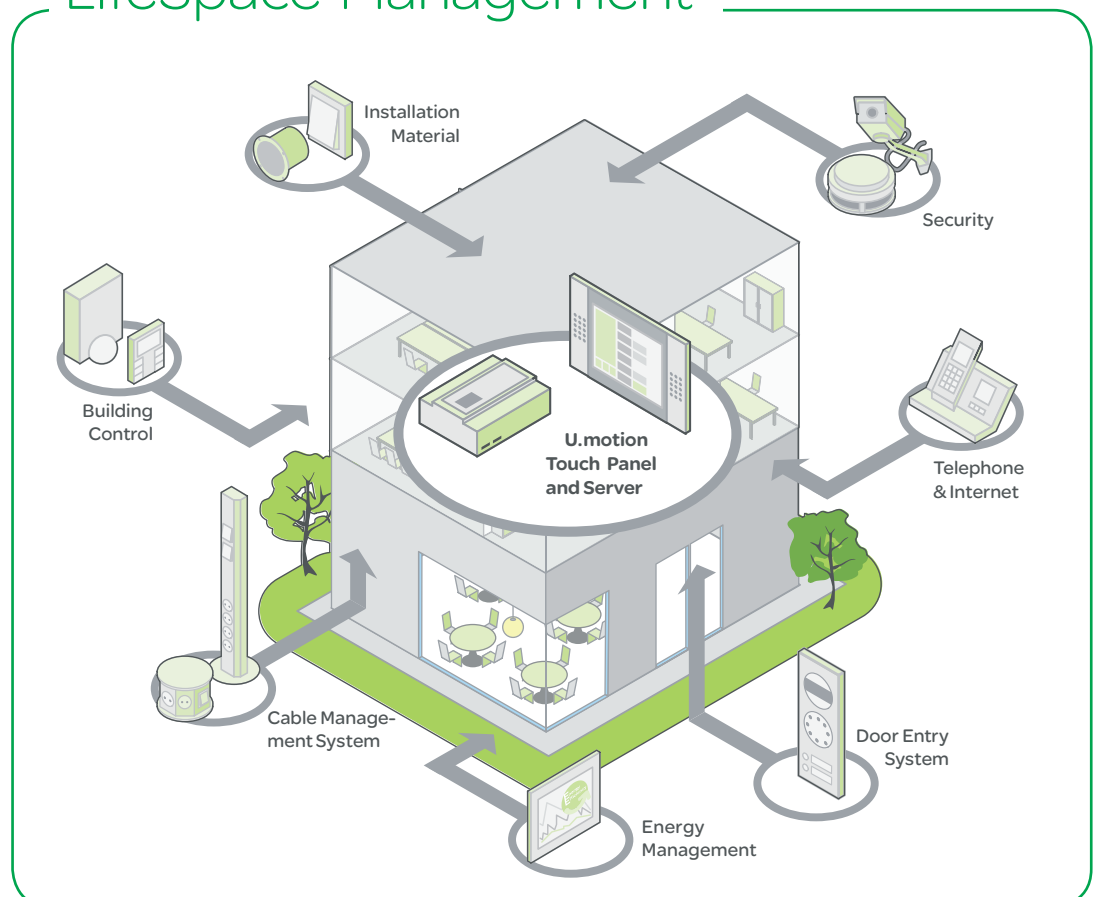
Many components and technologies can be combined.

The U.motion system is flexible

- in planning
- in expansion
- in modification

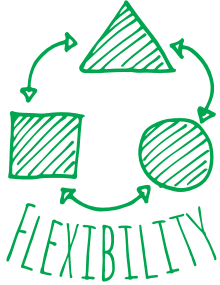
Open system for all building types, compatible with external devices, scalable from individual room control to a multi-room or building system.

LifeSpace Management



Plan flexibly and easily

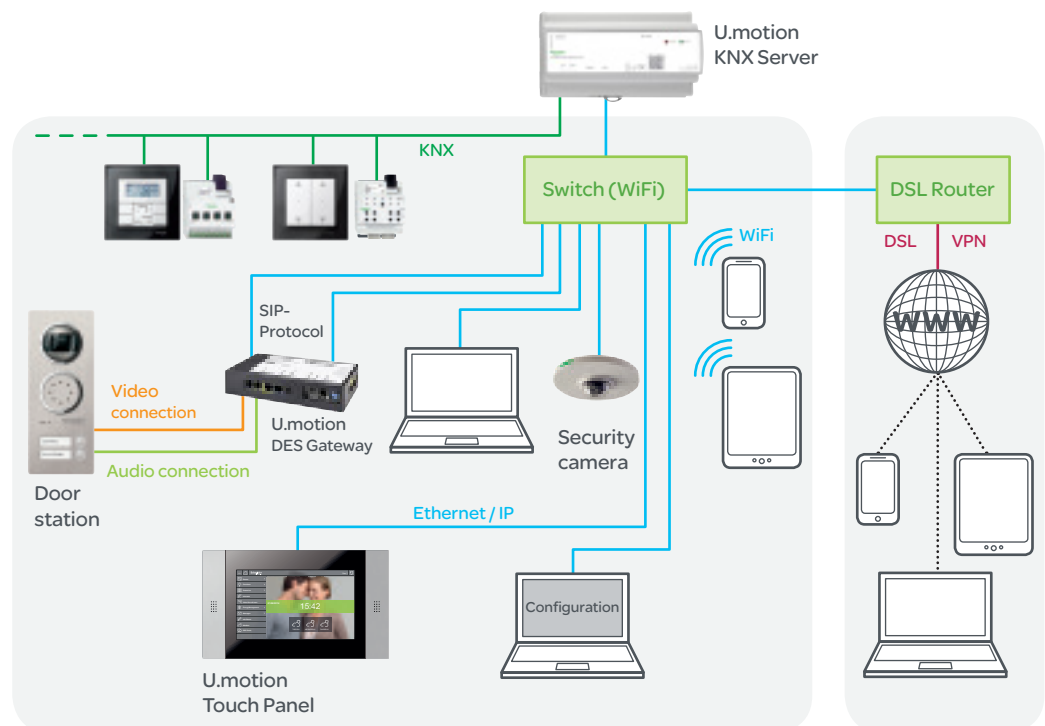
When it comes to planning, U.motion certainly keeps the promises of simplicity and flexibility: it is an open, maximally compatible system integrating all functions like lighting, HVAC, shutters and blind control, weather information, door entry systems or energy consumption graphs as well as load management and puts them to your fingertips.



From a basic KNX installation to a large server solution with numerous Touch Panels – U.motion is freely scalable.



Example of the U.motion system



Simplified illustration

LifeSpace Management – centrally controlled by U.motion



For you, U.motion combines flexibility and simplicity in each individual work step. KNX, Door Entry Systems or IP: U.motion brings technologies together. In addition, VoIP telephony can be integrated straight away, if requested by your customers. No matter what technologies are used or what size of system is required – U.motion makes planning, installing and configuring the complete customised solution easy.

**All the U.motion components are tested and coordinated,
which simplifies parts planning.**

U.motion KNX Server & KNX Server Plus

Two different versions of the U.Motion KNX Server allow to adapt to the project requirements while keeping at the right price point.

The U.motion KNX Server is the entry point to the U.motion solution and is an ideal option for those cases where Apps and mobile devices or 7" Touch Panels will be used for visualisation and control.

In addition to that, the U.motion KNX Server Plus allows for more complex projects that integrate the larger Touch Panel versions or integration of Door Entry systems.



U.motion KNX Server in two versions

U.motion DES Gateway & Acero Door Station

Further incorporation of the U.motion DES Gateway facilitates to also operate video intercom functions from an outdoor station via the U.motion system.

Calls can be received on several Touch Panels or even on connected mobile devices.



Acero stainless steel door station video
U.motion DES Gateway



U.motion Touch 7, 10 & 15

U.motion KNX Server Touch 10 & 15

The U.motion Touch Panels put an elegant frame around the particular visualisation. Three different sizes are available to cope with different requirements and budgets from an ultraslim Android-based 7", which can be installed vertically or horizontally, to a larger 10" to an impressive 15" premium screen. Dedicated boxes are

available for masonry and dry wall installation. For the 10" and 15" versions, special cavity wall sets enable a refined and totally flush-mounted installation. The whole family is completed by the U.motion KNX Server Plus Touch 10 & 15 – touch panels for stand-alone installation with integrated KNX server capabilities.

U.motion Touch 7:

Capacitive 7" LED backlight TFT
Resolution: 800x400 pixel
Power supply: PoE compatible or 9-36 VDC
Available for horizontal, vertical and flush-mounted installation

U.motion Touch 10 & 15:

Capacitive 10"/15" LED backlight TFT
Resolution: 1024x600 pixel / 1366x768 pixel
Power supply: AC 100-240 V
Available for horizontal and flush-mounted installation

U.motion Control & Communication Apps

The U.motion Control and Communication Apps are certainly free of charge and enable your customer to use the U.motion system very conveniently via their smartphone or tablet as well. The U.motion Access App unites both single Apps for an even easier handling of all functionalities and is preinstalled on the U.motion Touch 7.





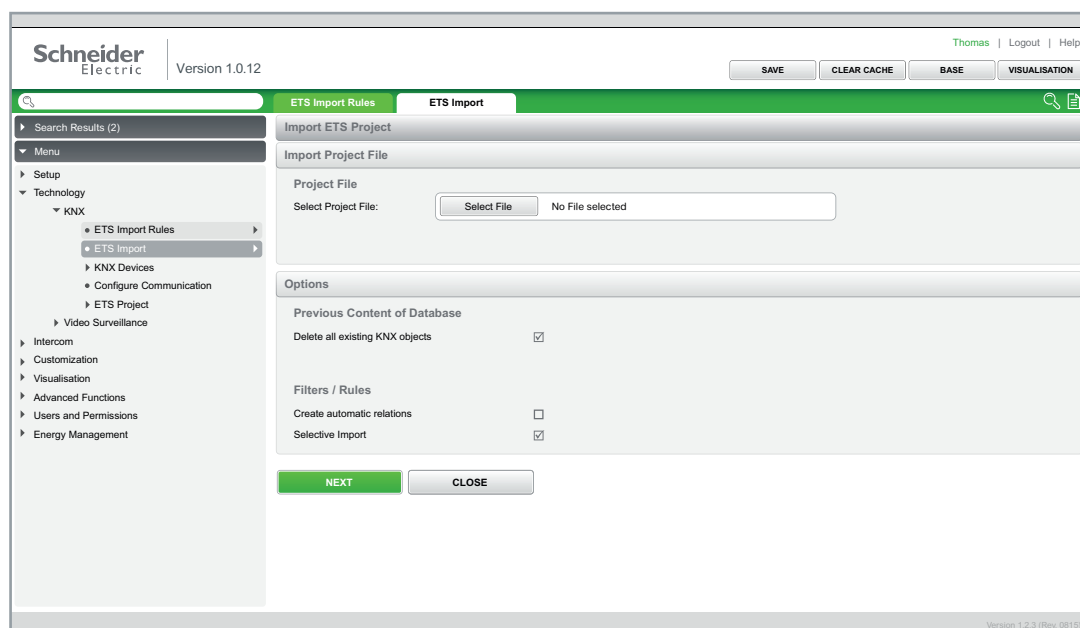
Quick configuration with the U.motion Builder

The U.motion Builder makes it quick and easy to set up the Touch Panels and KNX Server. Like the whole system, also the configuration software is powerful yet user-friendly and offers maximum security, even when set up remotely.



The U.motion Builder is web-based and therefore enables secure system configuration online – without the need to install any additional software on the configuration PC. In addition, the configuration menu is very clearly structured, following a straight-forward linear arrangement, making orientation really easy. Settings and

changes are saved each time you exit a menu item. It is not necessary to restart the server. Each detail is configured easily, securely and quickly. ETS project files can be imported and objects are classified according to flexible rules, thus giving the possibility to implement the different functions.



Configuration with the U.motion Builder

Scan the QR Code
and download the
U.motion Builder



Online version

U.motion Builder is embedded directly in the server. Just connect your PC to the U.motion network and use a web browser to access the server. Logging in using an administrator account will enable the administration back-end to do small changes in the settings or to build a complete project.

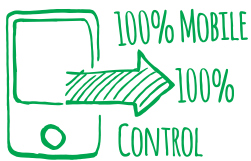
Offline version

Download the U.motion Builder from our corporate website and install it on your PC. This lets you work on the setup, even if you are not directly connected to the physical device. The visualisation can be saved as back-up file and imported later on to the destination U.motion KNX Server. Reusing the project file as a basis for other projects is also possible.



Convenience in control wherever your customers are

Your customers live a modern life – active, connected, responsible. But beside all the comfort, efficiency and safety today's digital lifestyle provides, there is a strong need to rest and recharge from this highly connected life and work. Wouldn't it be great to be able to offer an intelligent home that perfectly matches their needs and cares for them?

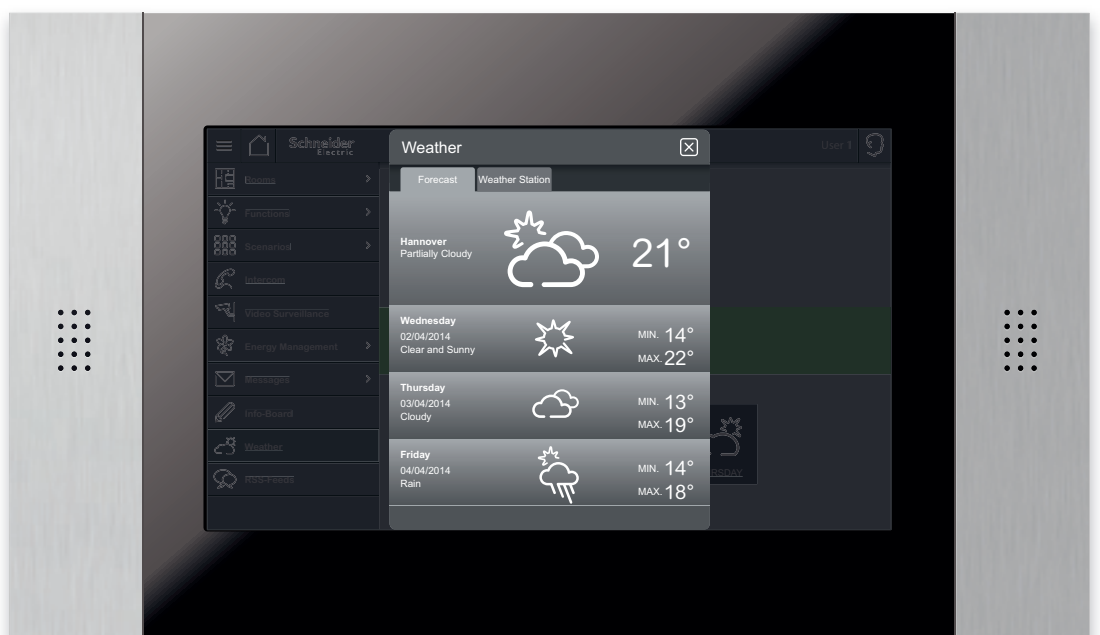


The U.motion Control App as well as the U.motion Communication App provide further comfort in terms of mobility. The U.motion Control App communicates with the U.motion KNX Server, allowing the visualisation and control of all the KNX building control functionalities

as well as integrated cameras. The U.motion Communication App with the intercom system enables a huge number of smartphones and tablets to become mobile indoor stations and to receive the calls from the outdoor station also on the accordant smart-phone or tablet.



Scan the QR-Code
and download the
Apps for free



Energy Efficiency with U.motion

Energy saving is not just a matter of conviction but is also a cost factor that puts money in your customers' pockets. U.motion offers the optimum basis for energy efficiency and can be expanded with additional components as required.



Energy Saving
just by visualising
consumption

Comprehensive energy management

Schneider Electric – leading supplier of energy management solutions – offers a large scope of energy solutions which can be perfectly combined with U.motion. And all of this is from a single source, so compatibility is assured. LifeSpace Management is a comprehensive solution that you can adapt to each customer's individual situation.

Measuring and visualising – the first step to savings

Energy efficiency starts with the clear visualisation of all energy consumption values. Studies have shown that simply visualising energy consumption values prompts users to change their behaviour – with a potential saving of up to 10%!



U.motion Touch 10
Visualisation of Energy Consumption

Saving and evaluating energy data

The energy data can be measured and recorded, and then displayed as graphs. The longer the time frame of energy recording, the more precisely a building can be evaluated in terms of energy.

Devices with a high energy consumption can easily be identified, and their consumption can be immediately optimised via U.motion. Energy management with U.motion pays off – for you and for your customers.

Improvement starts with a decision about what to implement

The trump card of LifeSpace Management with U.motion is flexibility. For each requirement, Schneider Electric offers solutions for achieving individual energy efficiency concepts and energy

saving scenarios. The combination of switch actuators with current detection or KNX Energy Meter plus individually set switching times helps your customers to save energy.

Monitoring with high accuracy

The KNX Energy Meter provides energy measuring with class 1 accuracy for single and groups of devices. It records total and period energy as well as instant power and provides 8 different alarm thresholds. When consumption exceeds preset limit, commands for switching or dimming can be sent or KNX scenes can be activated. The commands can be provided with adjustable delays if needed. Alarms can be sent to U.motion as well in case of current power, e.g. if server cooling falls below preset limits.

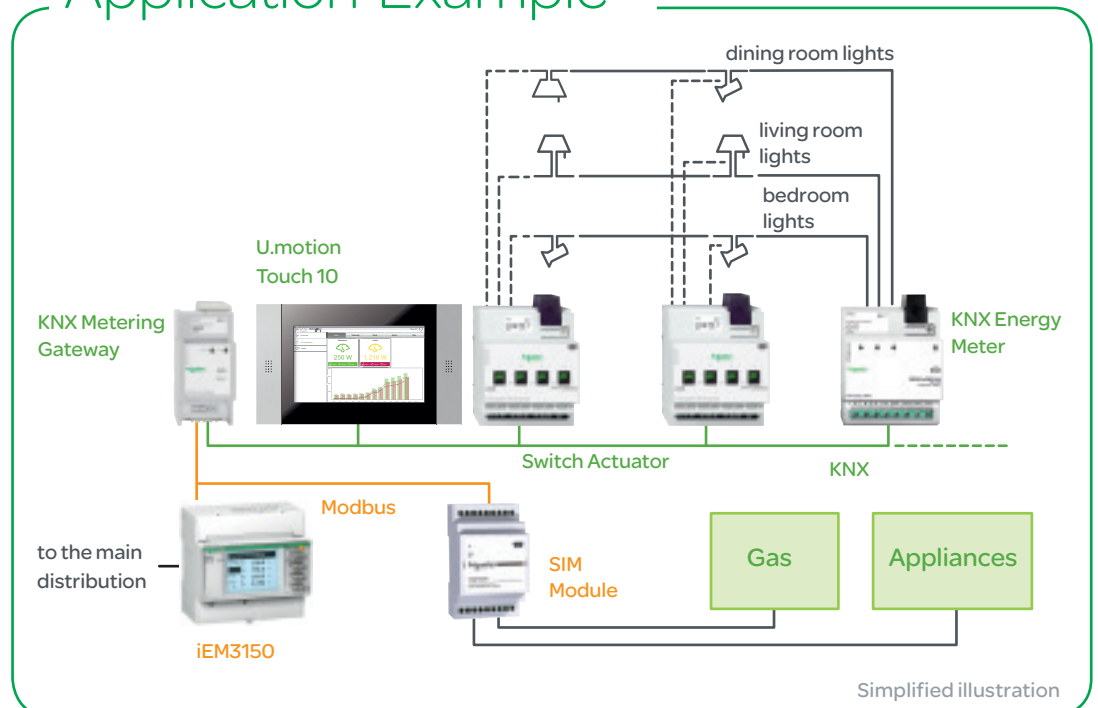


KNX and Modbus: an intelligent combination

The KNX Metering Gateway combines the expertise of the Modbus open standard with KNX intelligent building control. Measured values of up to 10 meters with a Modbus interface and connected SIM modules for recording gas and water consumption via impulse can be integrated into the KNX Energy Management, thus enabling comprehensive analysis of consumption.



Application Example





Comfort and security at home achieved with an eye to efficiency

With U.motion, perfect residential comfort can be achieved in private houses. However, the system can do even more. Control all the functions in your house using a simple interface that is intuitive to understand. Provide your customers with a convenient way to control various scenes and make them also available on all Touch Panels just as on an almost unlimited number of smartphones or tablets.

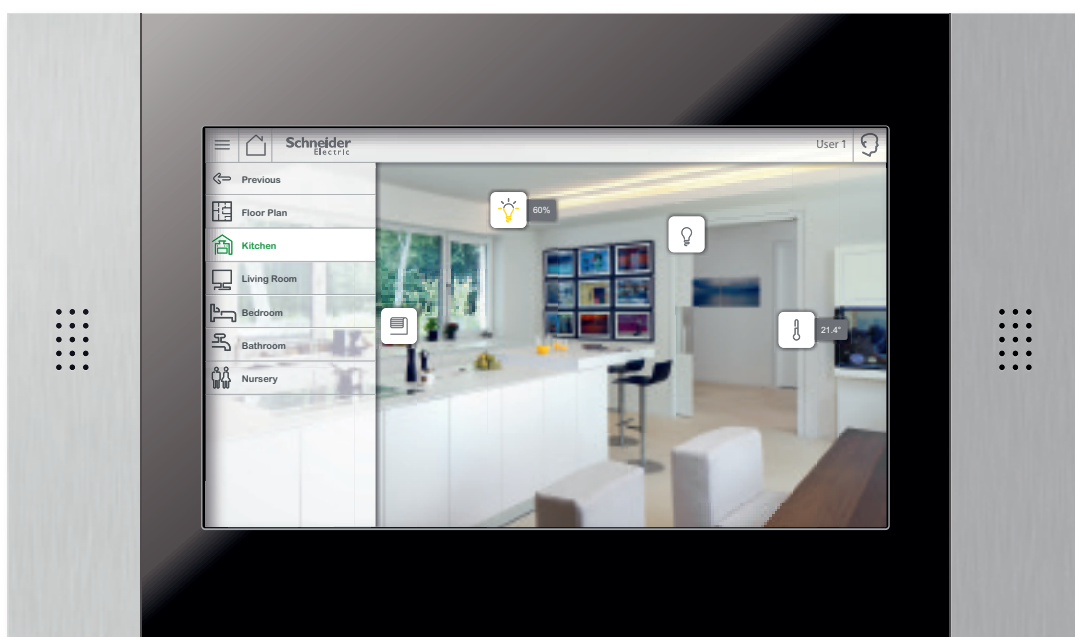


Design individual living comfort as per your customers' request. Composed of the entire range of solutions from Schneider Electric. U.motion LifeSpace Management fulfils the requirements in the easiest possible way.

For a secure feeling install a U.motion Touch Panel in a central location. This will rapidly provide your customers with information about the status of their home as everything can be seen at a glance.

Door Stations with camera functions can also be easily integrated into the system, which allows door calls to be received conveniently on each Touch Panel in the house, or even on connected U.motion mobile devices.

Furthermore, the U.motion Touch Panels also include a convenient intercom connection to each other to conveniently communicate inside the building.



U.motion Touch 15
Floor plan of a kitchen

A good start into building management with a cost efficient U.motion solution



U.motion in private houses

For their first owned house, a young family likes to have a KNX installation that provides a good mixture of comfort, security and energy-saving opportunities. The integration of existing devices such as smartphones or tablets into the U.motion system further creates a cost-efficient and flexible solution.

U.motion solution

Create flexible control possibilities by combining a U.motion KNX server with U.motion Touch 7, several KNX push-buttons and smartphones or tablets. Set up lighting and shutter scenes in the U.motion Interface. By including a KNX CO₂ Sensor and smoke detectors the system provides a good security standard by automatically sending alarms to the residents.

Customer benefit

Your customer is able to increase comfort, security and flexibility cost-effectively with a future-proof KNX system that can be extended with the requirements. The residents will no longer need to adjust various functions like lighting or shutters individually. U.motion scenes can be perfectly matched to the exact needs of the family: from a TV comfort scene in the living room to a reading scene in the bedroom.

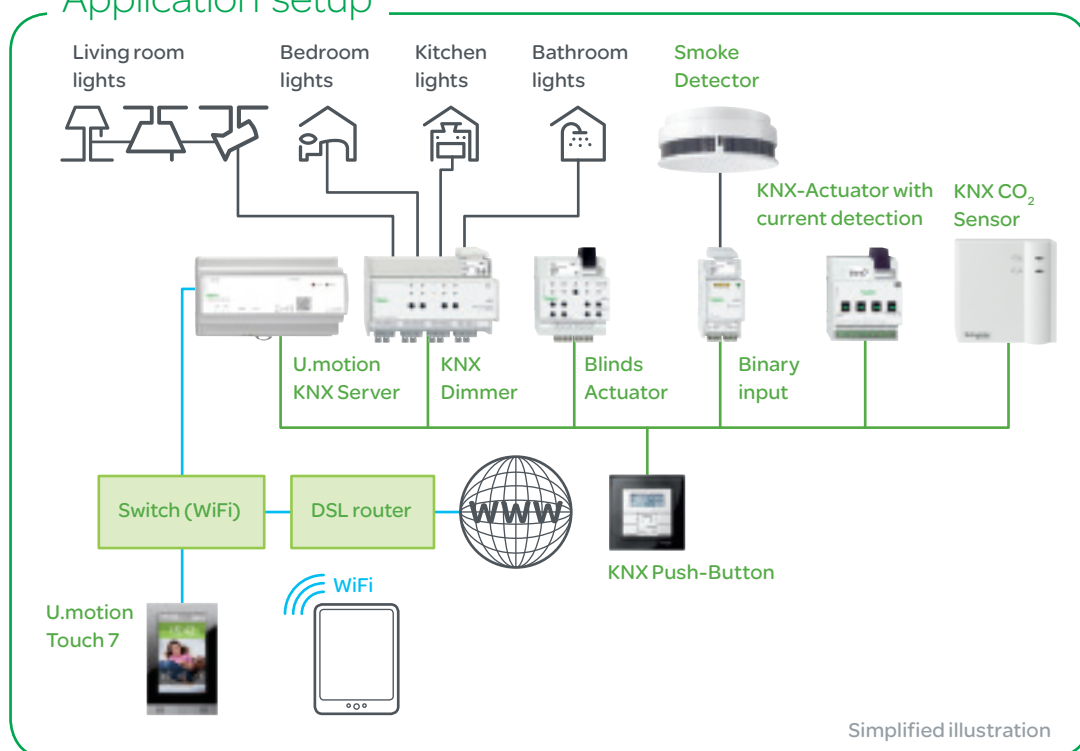
Additional benefit

By using U.motion with existing devices like smartphones, tablets and the U.motion apps the family is highly flexible: they can also use this state-of-the-art building control system when they are not at home. On the road or at work, your customers are able to carry the benefits of U.motion with them.



Versatile scene control responds to the different LifeSpaces of your customers

Application setup



1
U.motion
KNX Server

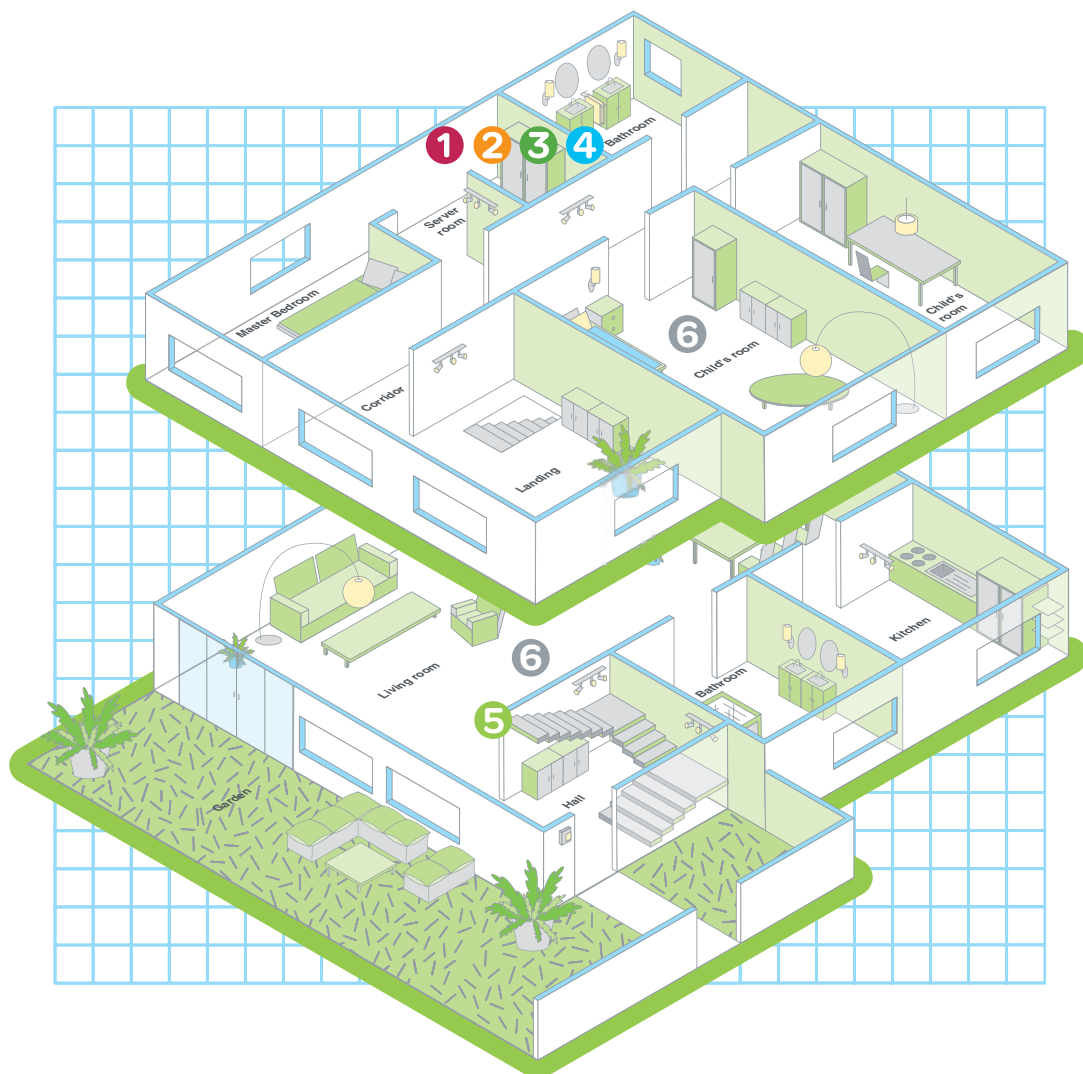
2
KNX
Dimmer

3
Blinds
Actuator

4
KNX Actuator with
current detection

5
U.motion
Touch 7

6
Smoke
Detector



Tablet with U.motion Interface
Using devices like smartphones and tablets for controlling the building with U.motion guarantees flexibility.

The full range of comfort and energy efficiency. The benefits of an extended U.motion system.



U.motion in
private houses

For their large house a family likes to have a building management system that covers the whole property including the garage and a garden. Extended functionality for a high level of comfort, security and energy efficiency is requested.

U.motion solution

With U.motion you can integrate further lighting solutions, cameras and a door entry station that provide a wider range of comfort and security. U.motion Touch Panels in combination with tablets provide highly flexible control of the whole system. KNX switch actuators with current detection enable targeted control of individual devices, thus offering further possibilities in terms of energy efficiency.

Customer benefit

Your customer will have a clear overview from every U.motion Touch Panel enabling targeted control of all consumers in the house, swimming pool, garage and garden. All electrical devices controlled by energy meters can be simply displayed and then be managed. Dimmers and RGB DALI ballasts, integrated via KNX DALI Gateway provide ambient lighting in every room.

Additional benefit

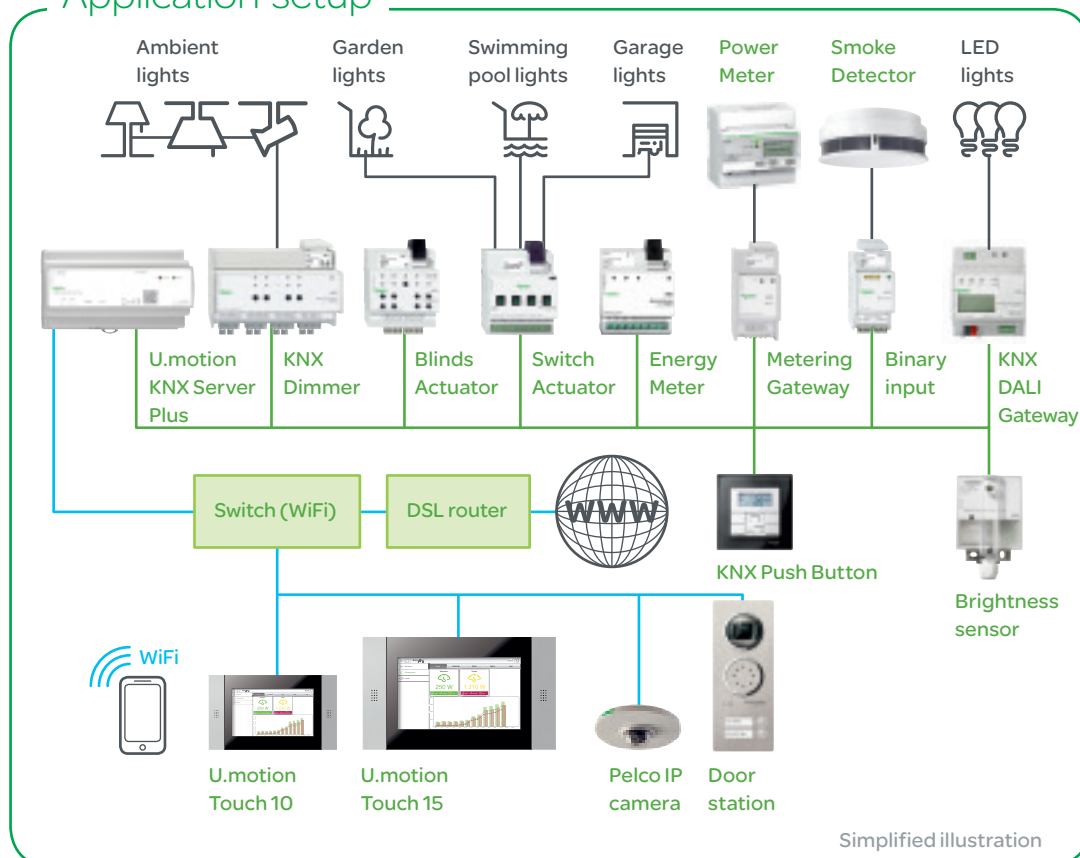
Integration of several door entry stations and cameras is possible. Detailed energy consumption data can be captured and displayed. The U.motion KNX Server Plus serves as a data store for all consumption data.

Binary input connected to the smoke detector actuator which gives a notification on all U.motion Touch Panels and by e-mail.



U.motion enables
building control func-
tions and energy man-
agement

Application setup



1
U.motion
KNX Server Plus

2
Energy Meter,
Power Meter

3
Blinds Actuator,
Switch Actuator

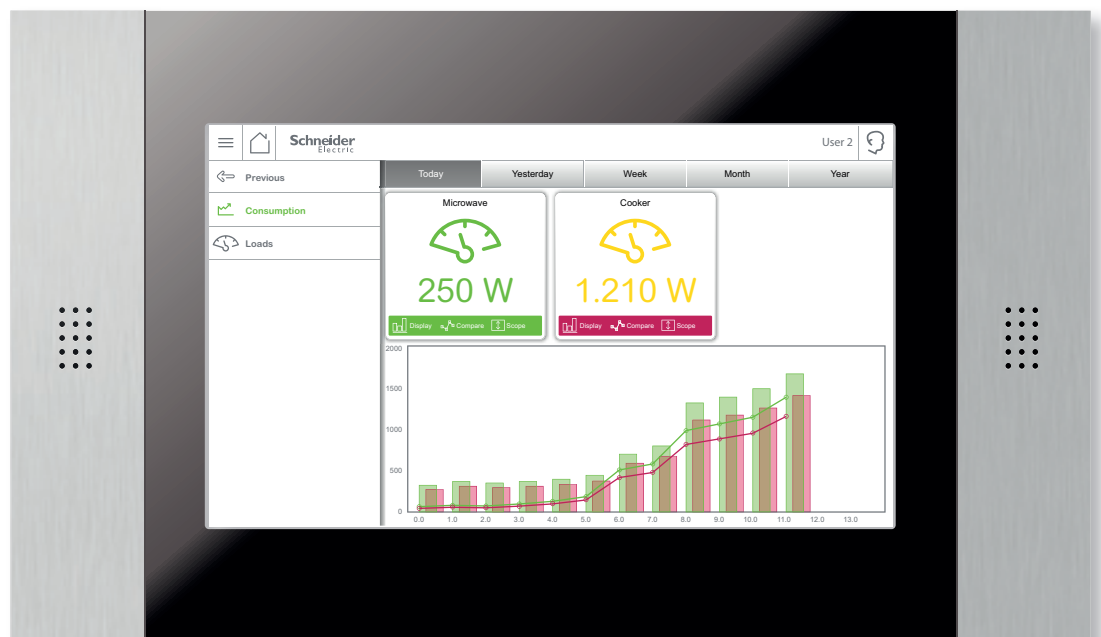
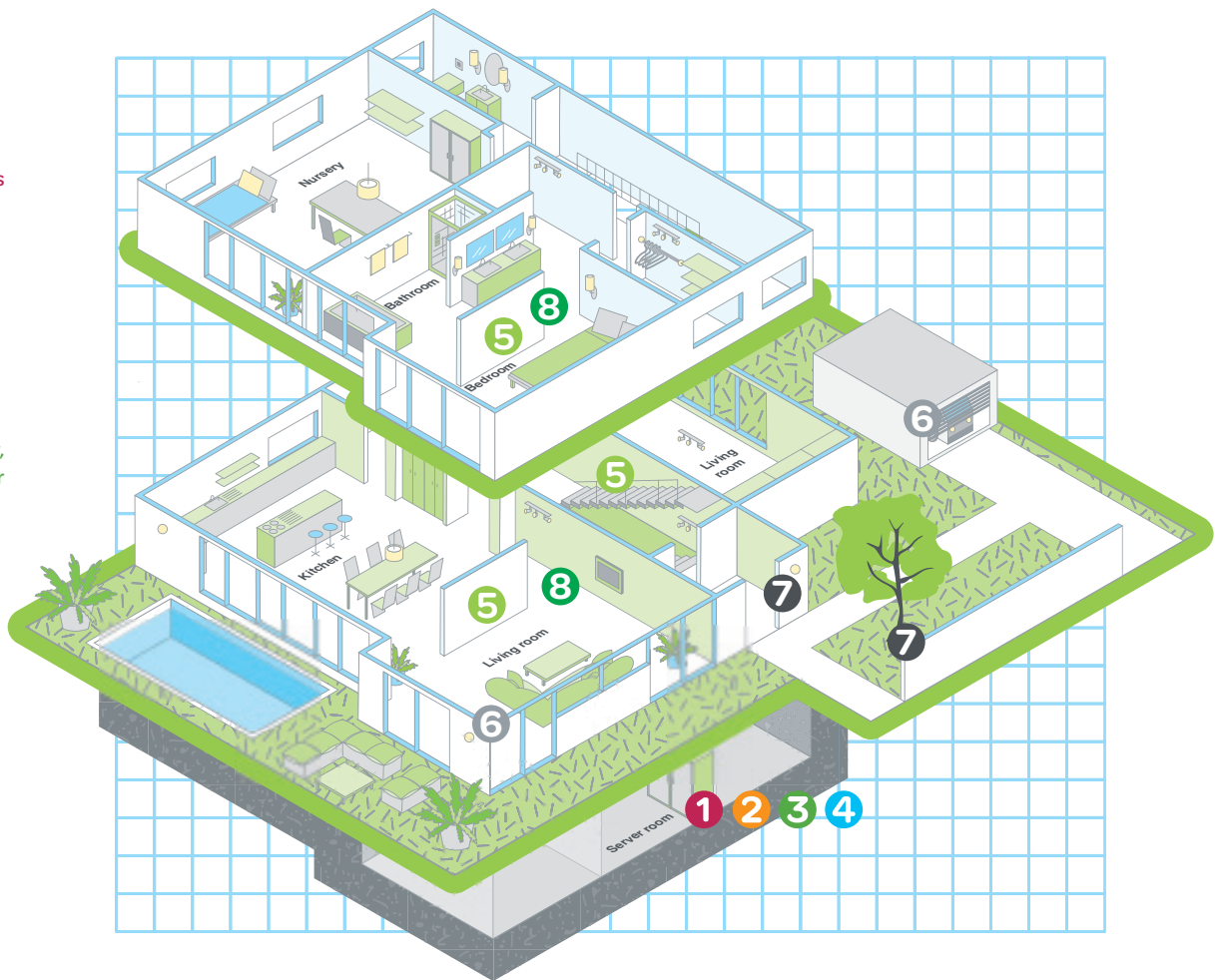
4
KNX
DALI -Gateway

5
U.motion
Touch 10/15

6
Pelco IP
camera

7
Door Station

8
Smoke
Detector



U.motion Touch 15
All consumption events can be captured and displayed as energy curves
in the U.motion Interface.



Convert offices and even shops into efficient LifeSpaces

With U.motion, you can offer your customers more than an intelligent building control system for offices or commercial buildings. You optimise the everyday working processes of all staff members and increase productivity by means of simple, flexible and energy-efficient solutions – incorporated in one tailor-made solution.



Take a flexible approach to dynamic systems and enable owners and users of offices or shops to respond quickly and easily to changed requirements. U.motion LifeSpace Management is compatible with all technologies and products, and can easily be adapted to the building scale.

With U.motion you can offer your customers a combined control of lights, shutters, dimmers, security cameras or other building functions with an interface that is easy and intuitive to use.

From reception to the different rooms and areas of a whole building – with U.motion, you create an efficient and comfortable working environment.

Deliberate energy saving often takes second place in working areas. U.motion LifeSpace Management visualises energy consumption and permits energy management during on-going operation.



U.motion Touch 15
Daily Planning

Security, comfort and energy-saving solutions for small commercial shops.



U.motion
in shops

The owner of small commercial shops (from a jeweler to a supermarket) have something in common: they want to have a cost-efficient and easy-to-use building management system that provides a high level of energy efficiency and security combined with comfort, that makes the daily operational procedure more effective.

U.motion solution

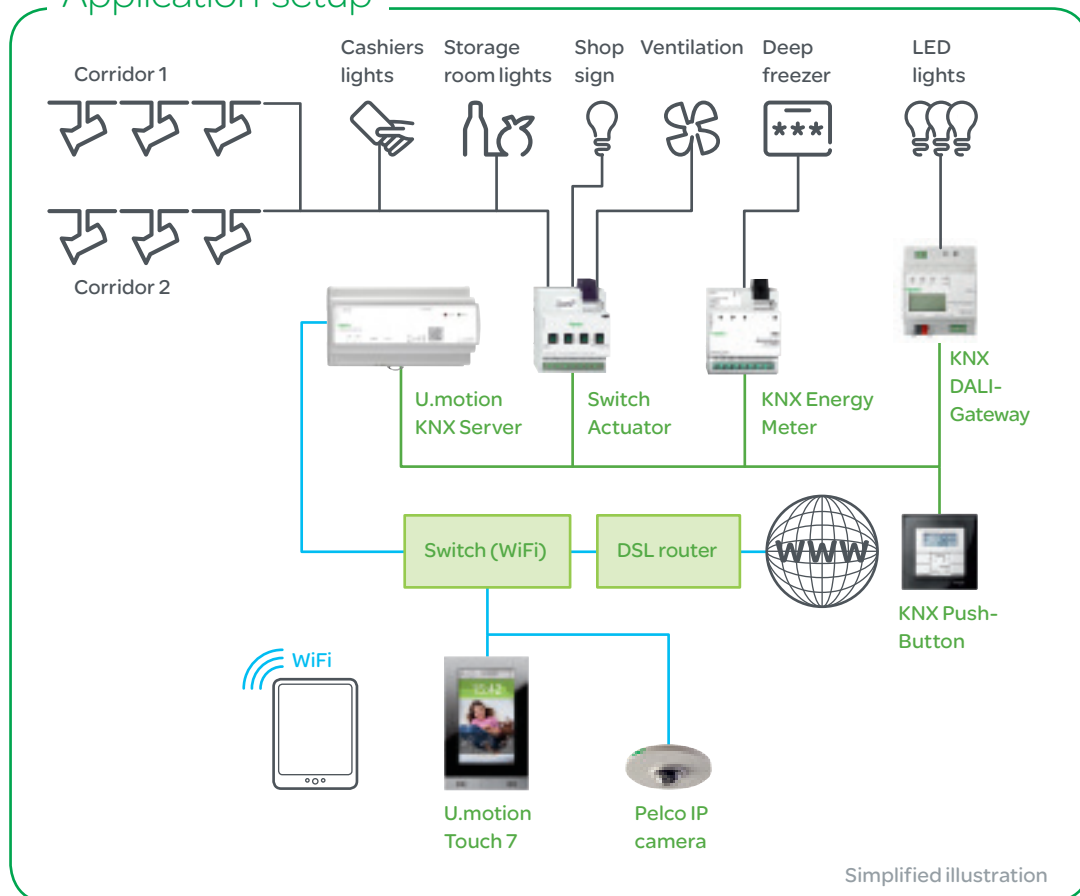
Support your customer in saving energy by time-controlled room functions by installing a range of switch actuators and energy meter. Set up floor plans for comfortably managing lighting, air conditioning or heating within all areas of the shop. Install a U.motion Touch 7 in a central position and several security IP cameras in unclear areas inside as well outside the building. Integrate a tablet into the U.motion system for flexible control and install smoke detectors to increase security.

Customer benefit

The U.motion Touch 7 and the U.motion Interface on the tablet provide comfortable organisation of all building functions – for single rooms, floors or the entire shop: HVAC control, con-

sumption control and camera images. Individual switch-off times prevent a waste of energy due to inobservant lighting, air conditioning or heating.

Application setup



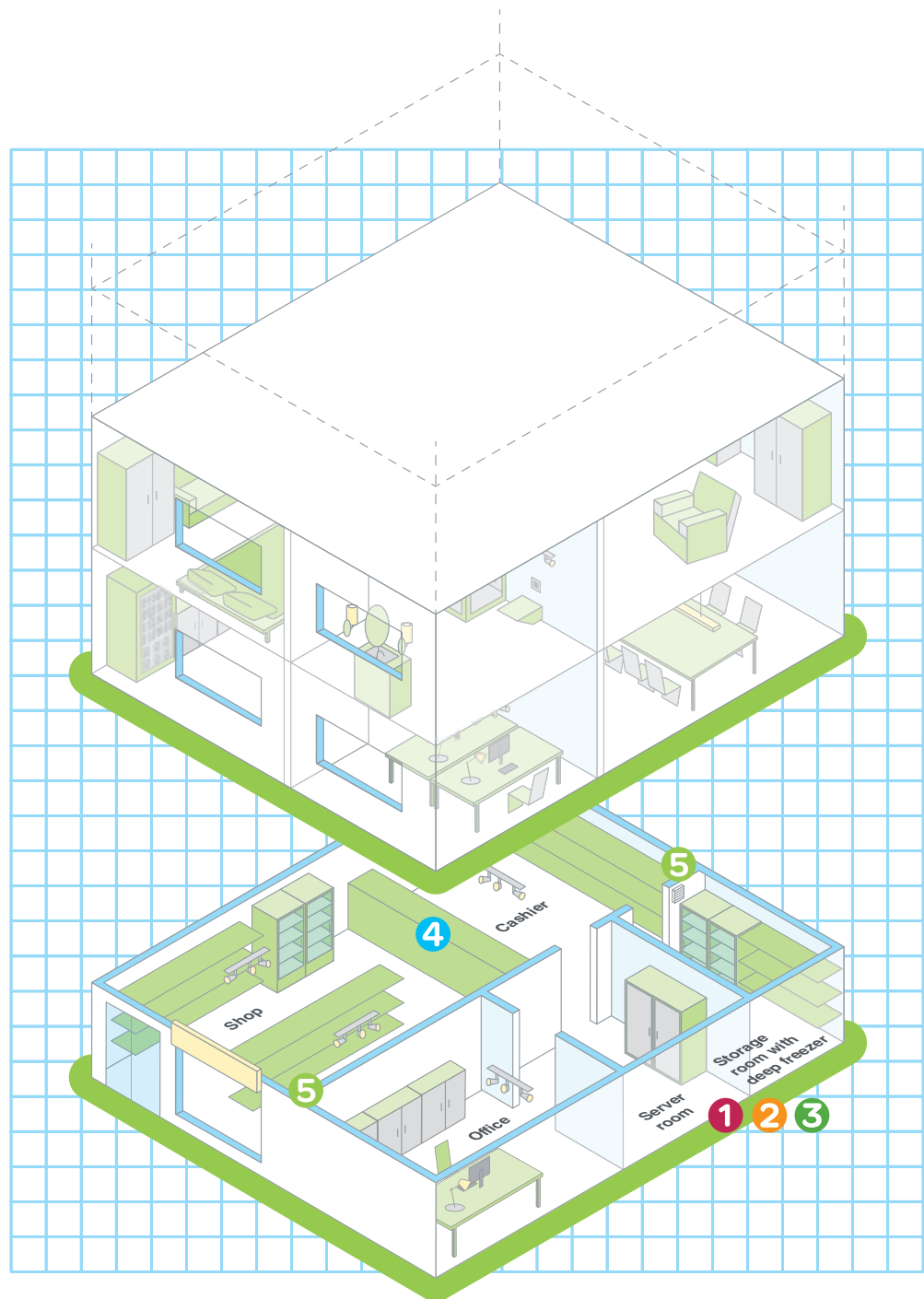
1
U.motion
KNX Server

2
KNX Energy
Meter

3
Switch
Actuator

4
U.motion
Touch 7

5
Pelco IP
camera

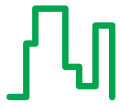


Additional benefit

In case of power loss, e.g. of a deep freezer, the shop owner or the employees will be alerted via e-mail.

The energy consumption of specific consumers can be captured and controlled with Energy Meters.

Optimizing everyday working processes in office buildings with U.motion



U.motion
in office buildings

Increasing productivity of all staff members by means of a simple, flexible and energy-efficient solution – from the reception through to facility management is highly demanded. U.motion creates an efficient and comfortable working environment.

U.motion solution

U.motion combines products and technologies into an intelligent and energy-efficient solution, which can be comfortably controlled via Touch Panel and devices as smartphones or tablets.



U.motion provides facility manager with convenient central control for the entire building

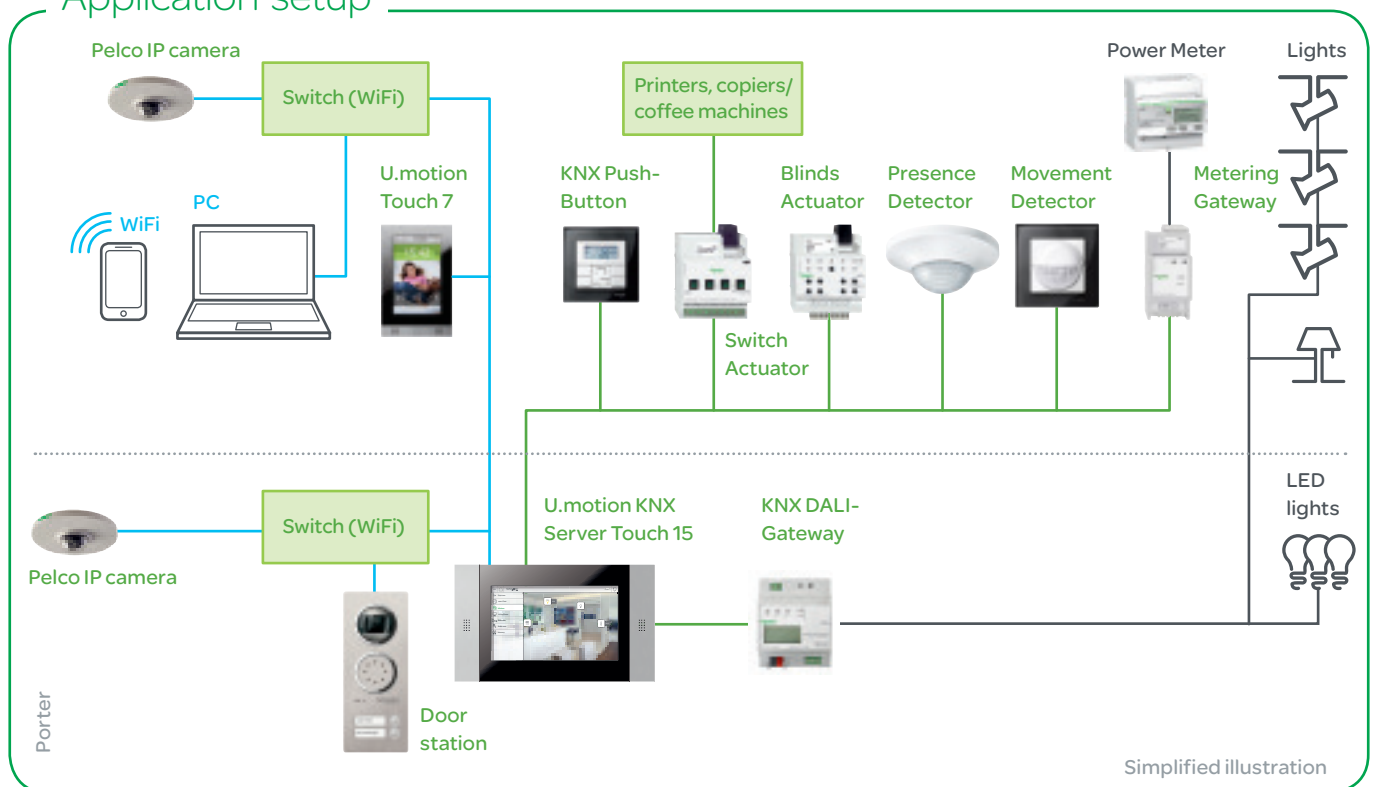
Customer benefit

Comfort starts with a friendly RGB lighting at the reception – easily connected via the KNX DALI-Gateway. The room light, copier and coffee machine are switched on by activating a corresponding scene. Different scenes set up in the U.motion Interface will set lights, blinds, heating and ventilation, e.g. in meeting rooms. Presence detectors, push-buttons and time control settings will ensure constant light, heating and air conditioning – only when needed.

Additional benefit

Switch actuators with current detection switch off devices such as printers or copiers when they are not being used. All consumption events can be specifically evaluated and displayed as energy curves in the U.motion Interface. Floor plan status offers a quick way of checking windows, but also the statuses of building functions. Cameras outside the building give a good overview of the entrance or parking area.

Application setup



1

U.motion KNX Server
Touch 15

2

Power
Meter

3

Blinds Actuator,
Switch Actuator

4

KNX DALI -
Gateway

5

Presence
Detector

6

Movement
Detector

7

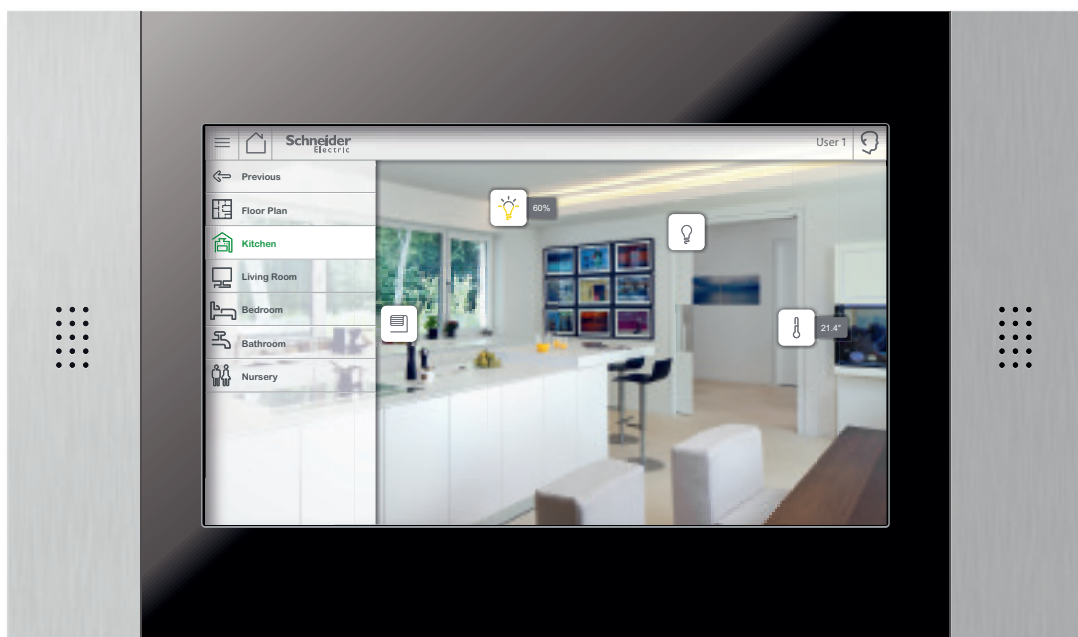
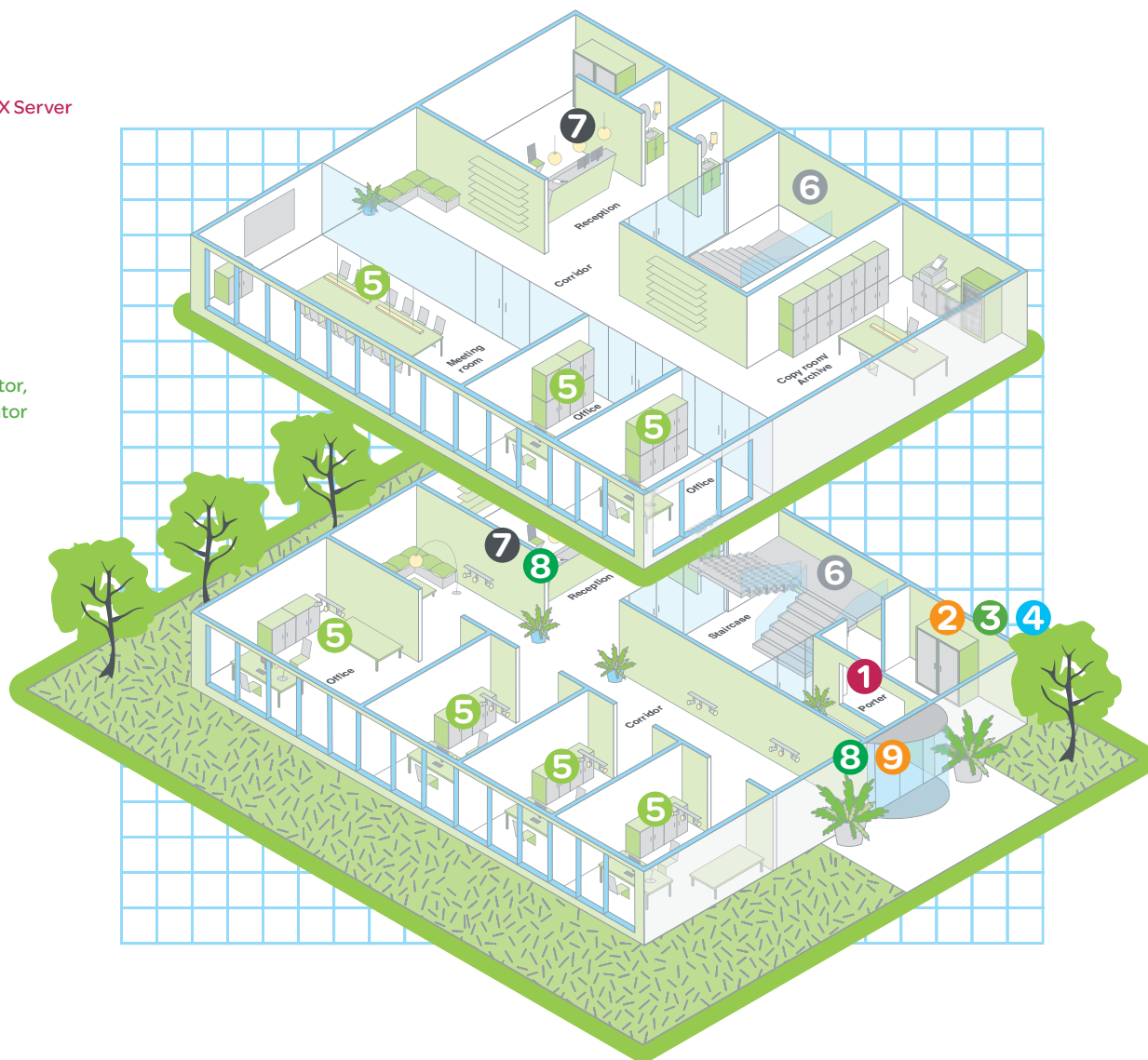
U.motion
Touch 7

8

Pelco IP
camera

9

Door Station



U.motion KNX Server Touch 15
The room or floor plan view makes checking the status of the building's functions quick and easy.

Schneider Electric – Your Partner



Benefit from
complete solutions
from one source!

Energy efficiency, flexibility, comfort and security – in addition to KNX, Schneider Electric offers further solutions from one source with perfectly coordinated components. Implement intelligent building control for maximum profitability and highest customer satisfaction.

Wiring Devices

As a matter of course comfort, safety, security and flexibility are combined with an extensive variety in design and functions.

Customers' wishes can be met easily, as most functions are available for the common design ranges from Schneider Electric: starting from various versions of KNX push-buttons, e.g. with room temperature control units or IR receivers, up to flush-mounted KNX movement or presence detectors.

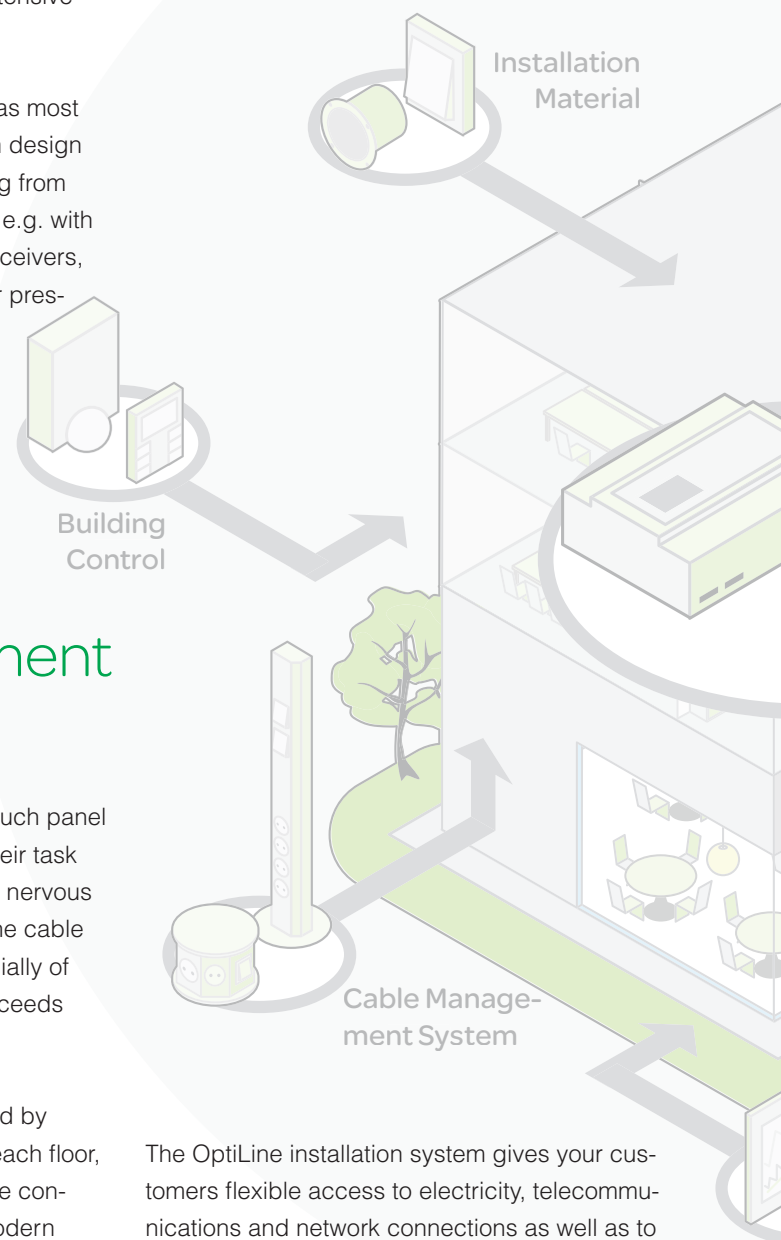
Cable Management Systems

No matter whether it's a light switch, touch panel or server cabinet, they can only fulfil their task once they have been connected to the nervous system of any electrical installation – the cable management. The cable length, especially of cables laid in office buildings, soon exceeds several kilometres.

A cable management system as offered by Schneider Electric is indispensable if each floor, each room and each workplace is to be connected to all the available functions modern offices require today in a secure and maintenance-friendly way.

The OptiLine installation system gives your customers flexible access to electricity, telecommunications and network connections as well as to operating elements, wherever they are needed. The modular structure fits in with any room situation or type of usage.

LifeSpace Management



... for future-proof solutions

Safety and Security

Whether it's in a private home or in a commercially used object – the demand for security is equally high in both. So it's good that Schneider Electric offers numerous security solutions which are capable to close security gaps easily and quickly: starting with life-saving smoke detectors, movement or presence detectors, which also secure access routes effectively, to security cameras and complete emergency lighting systems.

No matter what your customers may request, Schneider Electric offers the right solution for all aspects considering the security of persons at home or in the office.

Network Connectivity

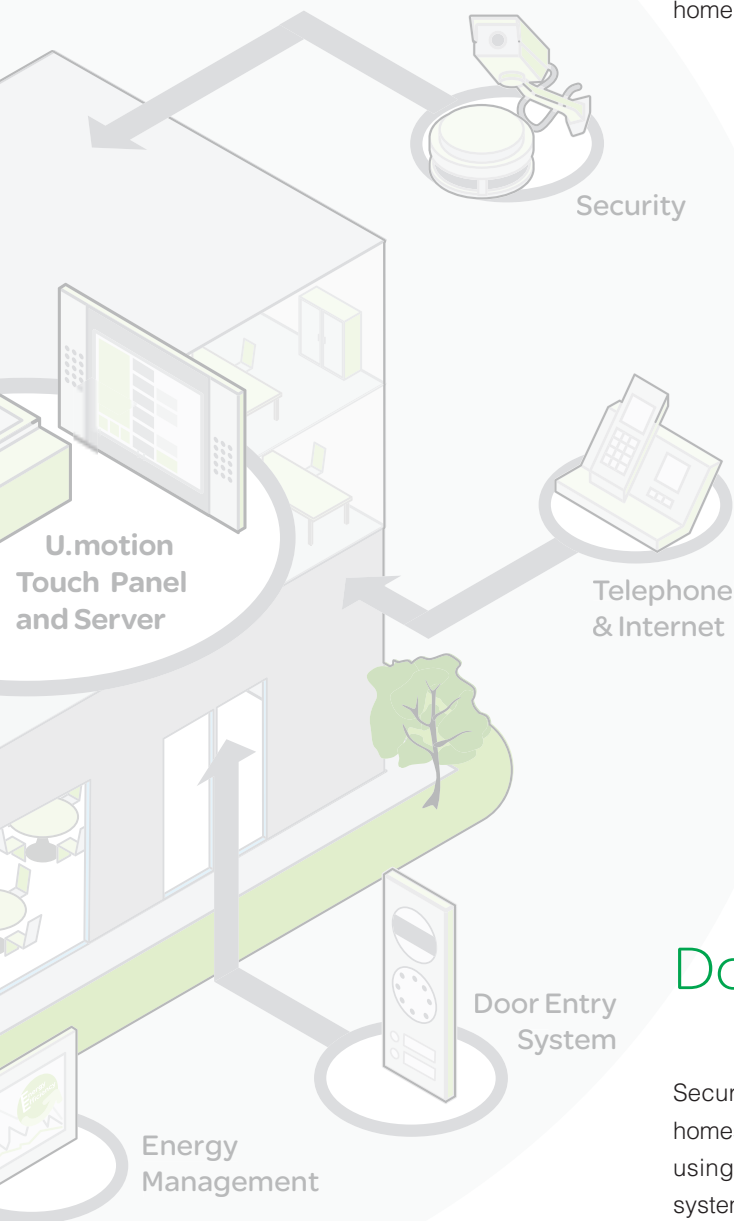
Today the perfect integration of data and communication lines into the electrical installation is an integral part especially of commercially used objects such as office buildings.

Schneider Electric offers a comprehensive portfolio for the establishment and connection of networks that is ideally combinable with the cable management solutions. With Schneider Electric, bundled solutions from one source guarantee an efficient working environment.

Door Entry Systems

Secure and comfortable access control is equally important in private homes and functional buildings. From security cameras to access control using PIN codes or fingerprints to complete building communication systems – Schneider Electric offers the perfect solution for every need and purpose. The advanced TwinBus technology can easily be integrated into existing KNX systems as well, thus further enhancing the comfort in access control.

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* Make the most of your energy

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