



automation**NEXT**



automate  
your world



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Live configuration  
instead of programming.



In the emerging area of building automation, it has become usual that hardware is linked to software by the same producer. In our view, this leads to an undesirable dependence.

In order to avoid this, it was our wish to create a software that combines the integration of different devices, hardware and systems in a standardized and user-friendly platform.

Our focus on the system integrator not only makes handling and control of all components practical, but also economically efficient and scalable.

Due to this scalability, simple control systems in private households and also complex systems for industrial buildings and company buildings can be implemented without having to abandon the handling and programming you are used to.

Our customers confirm that every day by expressing their satisfaction, for example in:  
International Airport, Capetown, South Africa  
Ronacher Theatre, Vienna, Austria  
Central station, Capetown, South Africa  
Mansion of a baseball star, Los Angeles, USA

**Quirino Nardin**

Managing director  
automationNEXT, Austria



- Examples for automatization
- Central on/off (panic button)
  - Scene come/go
  - Time clock with calendar
  - Scenes
  - Sequences (macro)
  - Individual room control (heating)
  - Presence detection (illumination on/off)
  - Daylight-dependent control (illumination/jalousie)
  - Automatic stove switch-off
  - Support with report function (SMS, e-mail, RSS)
  - Visualization (x.touch, iPhone, iPad)
  - Presence simulator
  - Energy metering (chart)
  - Air quality metering CO<sub>2</sub>
  - Access RFID
  - Jalousie management
  - Color-light adjustment
  - Media control
  - Rain alarm (window is closed in case of rain)
  - Wind alarm (jalousie is pulled up in case of wind)
  - Dawn functions
  - Garden irrigation
  - Pool management
  - Data recording of all switching operations

### Your options

Unfortunately, the possibilities of building automation have not been fully realized yet.

Building automation does not mean the loss of control over devices and situations, but intelligent support, safety, convenience and economic efficiency of building management.

**Imagine,**  
...you have to manage a huge complex with many objects. The next.system informs you about the present state of your building and informs you without delay about defective lights or alarms as well as about disturbances.

**Imagine,**  
... you are sitting in the opera house or in the cinema worrying if your daughter will come home in time. next.system will send you an SMS as soon as your daughter unlocks the door.

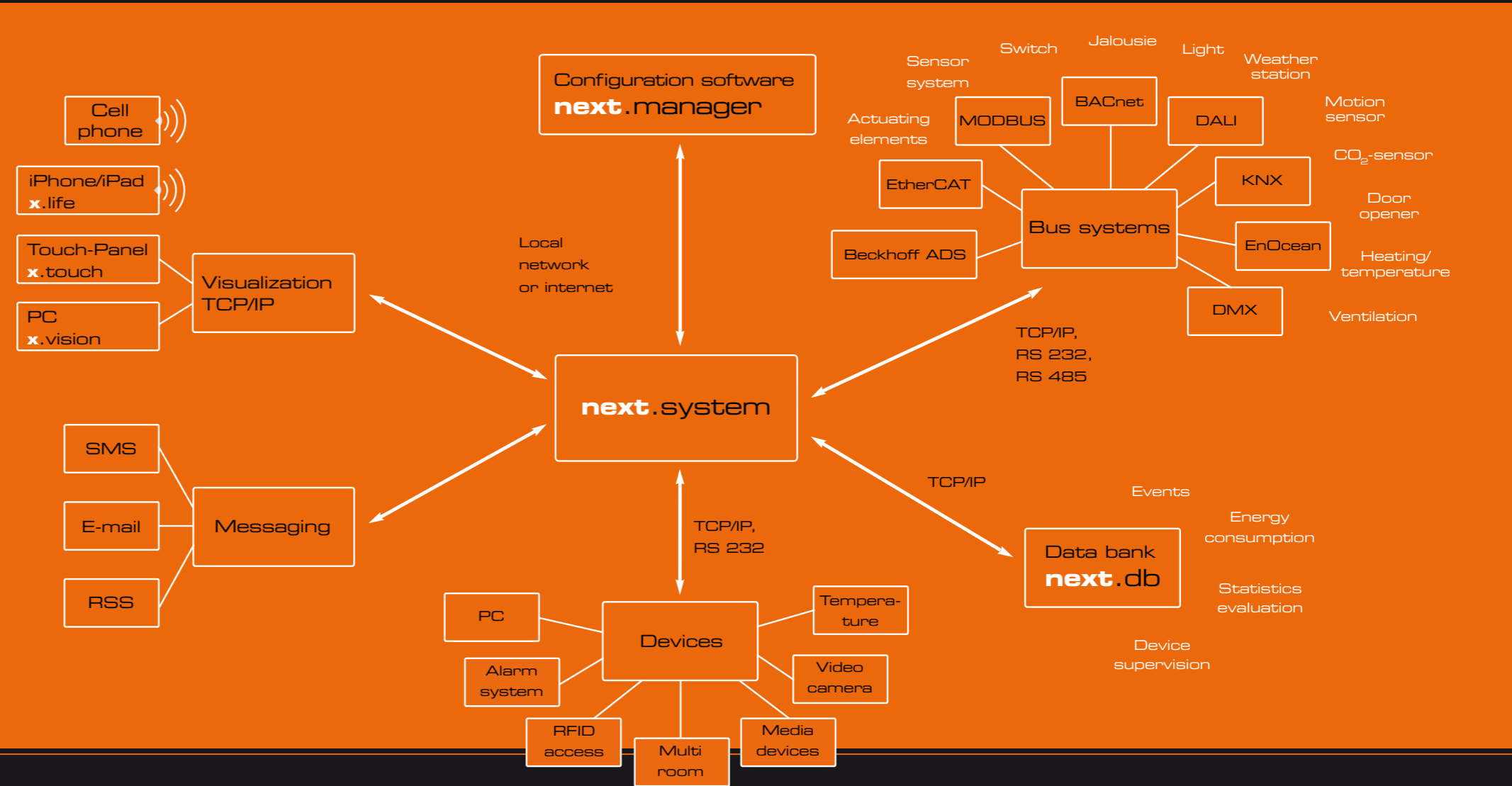
**Imagine,**  
...you could use light to get into a good mood or to work against negative feelings like coldness. The next.system knows the answers.

**Imagine,**  
...a special light dimming allows for a relaxed falling asleep of your children.

**Imagine,**  
...you have accidentally locked yourself out. By means of a finger print scanner or a cell phone, next.system can unlock the door for you.

**Imagine,**  
...depending on the time of day, the lights are controlled optimally for the required quantity of light. For example underground illumination during the night, so that you will not be awoken by flashy light.

**Imagine,**  
...you are informed that your concentration or your well-being will be affected, if the CO<sub>2</sub>-content in your living or working environment increases.



### The structure of the next.system

The core of the system gathers data from different devices and systems and controls the whole building on the basis of these data.

Depending on the system size, numerous objects can be integrated. If the system is configured, the modifications are carried out at once without any need for a restart or interruptions.

The next system is available in 4 different sizes:

- next.30
- next.100
- next.1000
- next.unlimited

The number stands for the number of integrated elements, like lights, shading, electric windows, screens, switchable sockets, door openers and control valves. This makes it easy for everybody to calculate the system size. It's no problem to complete your system later-on, no matter if you pick next.30 or next.100, all functions are the same both in the small and the big package and can be completed up to next.unlimited.

By means of the data bank, events and power consumption are recorded, which allows for the supervision of the devices and the creation of statistics.

System messages can optionally be sent by SMS, e-mail or RSS. All current bus systems like EIB/KNX, DALI, EnOcean, BACnet, MODBUS, Beckhoff ADS and EtherCAT are part of the system. The data are transmitted by TCP/IP, RS232 or RS485.

The next.system has an open and documented XML-interface for operational and visualization applications. The same interface is also used with our software x.live and x.touch and even gives developers the opportunity to create own applications.

The x.vision works as an integrated application on the next.system and provides a web-based visualization directly on the browser you are used to.

For developers: By means of our developer framework, everybody can take part in the development of the next.system and can make his developments available to others (next.store).

Further developments are integrated into the operating (OSGi-based) system and can be used at once.



The configuration software (next.manager)

With next.manager, we successfully developed a software that grants maximum user-friendliness and complex functional options at the same time. The next.manager is based on the eclipse framework and can be dynamically adapted to all requirements just like the next.system.

The next.manager is compatible with all current operational systems like Windows, Mac and Linux and displays the system live on your PC.

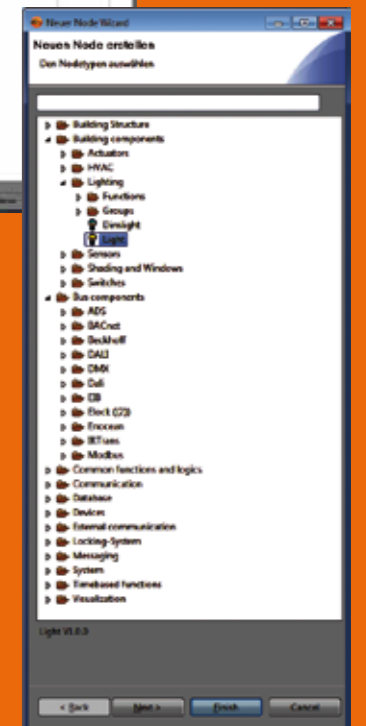
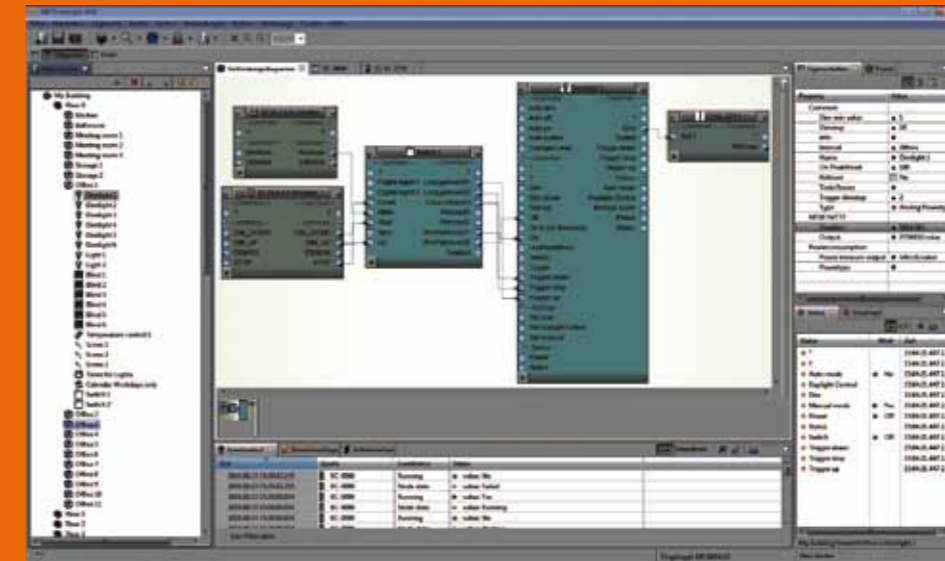
A simple connection by drag and drop connects the push-button with the light. More complex connections can be recorded by means of macro functions and can be repeated as often

as desired. Parts of the building are copied using "copy and paste", only the sensor system and the actuating elements have to be assigned anew. Especially in case of bigger buildings, these functions save both time and costs.

In the history view, all changes are recorded so that it will always be easy to trace back what happened within the system.

The event record shows all events in real time. By means of a comprehensive filter system, all events that are not needed at the moment are filtered out. This is especially helpful when the

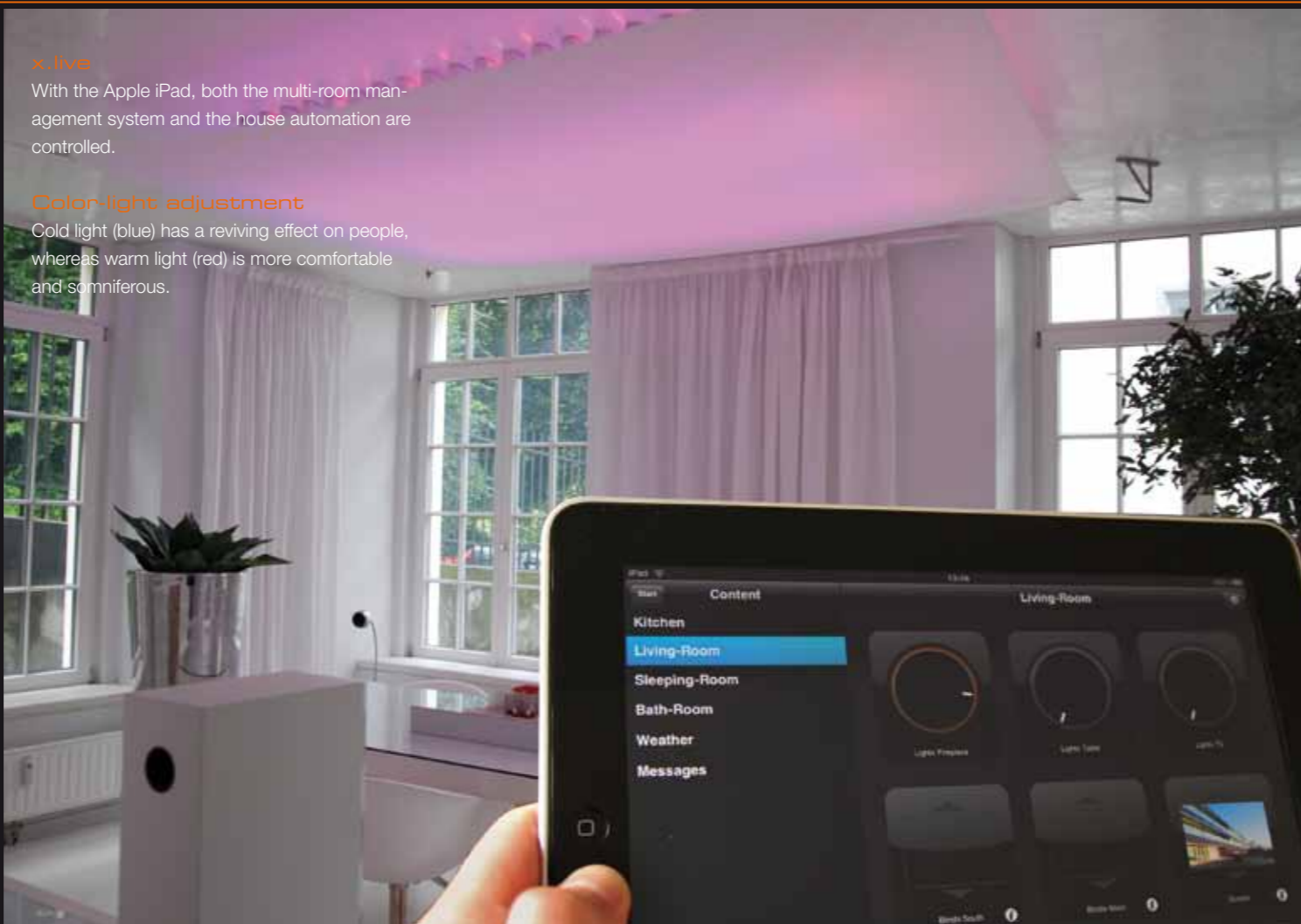
system is put into operation and when errors have to be detected later. By means of data recording, the events can even be traced back for several years.





**Home Cinema**

Your DVD is started at the push of a button. At the same time, the curtains close automatically, the light is switched off and you can relax and focus on the movie.

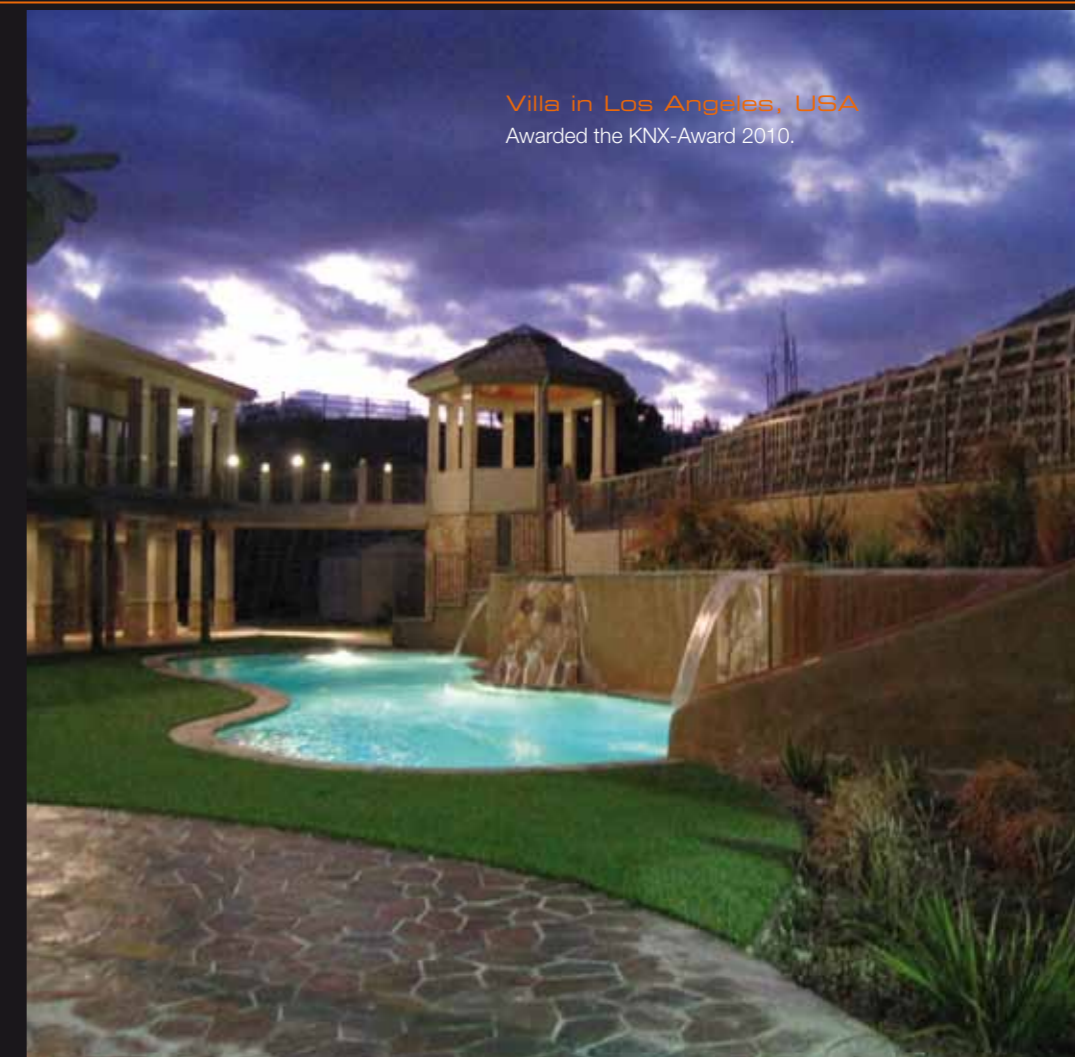


**x.live**

With the Apple iPad, both the multi-room management system and the house automation are controlled.

**Color-light adjustment**

Cold light (blue) has a reviving effect on people, whereas warm light (red) is more comfortable and somniferous.



**Villa in Los Angeles, USA**

Awarded the KNX-Award 2010.

**next.30**

**For private users, the next.30 system provides energy saving, convenience and above all a new dimension of safety.**

When you leave the house, the software can play the whole "scene" by pressing a button or by precise timing. This scene will control all end devices or switches in such a manner that open windows are shut in case of rain in order to avoid consequential damage or in order to secure the house against trespassing. During the day, the jalousies optionally provide warm or cool room temperature. By means of remote control, the heating can be configured

optimally for the homecoming in the evening.

You can do all this using a self-explanatory app, for example an Apple iPhone, iPad or a touch panel. You always have absolute control of the situation and you can modify the data as you like at any time. The app does not only serve as a control device, but also displays the current data, like the temperature, for example. Especially with the Apple iPhone, you are connected with your home when you are out. You can check spontaneously if the light is switched off or the door is closed and you can also correct things from afar, if necessary. In case of error messages or if a motion

sensor is triggered, you will instantly receive a warning by SMS. Another advantage is the variable configuration of the switches in the apartment: If you rearrange the furniture in your living room, you do not have to install a new wiring, the functions of the switches can easily be changed in the software.

Single-family house,  
Schwarzach, Austria  
The access system with fingerprint scanning opens the door and switches on the lights in the hallway.



Hotel Grüner,  
Sölden, Austria

Due to the innovative user interface on the desktop, in the general rooms, no switches at all are required, anymore.



next.30

The next.30 system is also absolutely suitable for small companies as well as for meeting rooms and conference rooms. For example, the CO<sub>2</sub> content of a meeting room can be controlled and the oxygen content can be improved by opening the window. Thus, the meeting participants will always give you their full attention.

The Grüner Hotel in Sölden applies next.30 in order to control the illumination in the whole building. The multitude of switches is replaced by three touch panels. The advantage is that many individual light sources can be controlled and dimmed centrally.

With another project, next.30 regulates the dimming of the light and the lowering of the screen. After that, the desired video player or video conference system is activated.

The output signal can also be directed into the end devices just by the push of a button and without any special knowledge.

If necessary, wall switches can be used as volume control switches.



**Look & Feel**

The sun automatic controls the jalousies depending on the blinding effect of the sun that is determined by weather data and calculation of the position of the sun. At the same time, it is made sure that the jalousies are all at the same height in order to safeguard a homogeneous visual appearance.



**Heron, Dornbirn, Austria**

Due to the simplicity of the system, completions and modifications can be carried out by the company technician.

**next.100**

This system with 100 (or more) elements to be actuated is applied in medium-sized buildings like the one close to Heron in Dornbirn/Austria. The multi-media components in six meeting rooms ranging from amplifiers to beamers, are coordinated by the system. The entry automation makes sure that the light is switched on as soon as somebody enters the room. By means of timer functions, valuable time is saved. Starting from 5 pm, motion sensors regulate where illumination is required. The jalousies are controlled synchronously in order to safeguard a homogenous visual appearance.

Thus, the system provides the company technician with necessary information.

The company technician can be trained by us to configure the whole building, even if he does not have any programming skills.



**Facility management**

All events are clearly displayed and recorded.

# 1000

**Daylight regulation**  
Depending on the exterior brightness, the lamps are dimmed to the required level.

**Schletter GmbH, Kirchdorf, Germany**  
The next.systems allows for a simple cooperation of the different crafts.



## next. 1000

The bigger the building, the more important are data recordings and especially the evaluations of energy consumption that show energy saving possibilities.

On the total area of 35,000 m<sup>2</sup> of the company building of the Schletter GmbH in Kirchdorf/Haag i. O., temperature equalization is carried out using our next.system. Hundreds of windows are opened simultaneously and provide ventilation - an efficient and cost-saving air conditioning system that cools down the rooms for the next day. During the day, the jalousies regulate the indoor climate.

With direct solar irradiation, the jalousies close automatically to keep the temperature down.

And here is another advantage of the next.system that is relevant especially for large-scale projects: The software is designed for big buildings, configurations can simply be copied for other areas. In the process of putting into operation, several technicians work simultaneously on the same project.

**Presence-dependent switching**  
Jalousies and lights are switched to the automatic mode as soon as everybody has left the room. At the same time, the system records the last meter reading and switches back to its previous position if somebody enters the room.



**International Airport,  
Capetown, South Africa**

Several thousand lamps are controlled by the next.system. The maintenance department is automatically informed by e-mail about light duration and defective lamps.



next.unlimited

**Unlimited building automation is our target.**

Complex buildings of the size of Cape Town International Airport have optimum pre-conditions to make use of all advantages of building automation.

Due to daylight-dependent light control and zone switching of unused areas, energy is saved. Exchanging individual lamps is extremely time consuming and causes avoidable costs. Thus, the life cycle of the lamp is controlled and a report is sent to the company technician by email, so that the exchange of old lamps can be carried out at one time.

By regulating the switch-on time (slow dimming), the durability of the lamps is further increased.

The facility manager can observe all states of the lamps in a graphic overview.

**Save energy**

By purposeful "on" and "off" switching of different power-consuming units, the demand for energy can be reduced by up to 30%.



### The simplest possible operability

We know that building automation only will be successful if it meets the requirements of real life. That's why we focus on people.

We focus on state-of-the-art technology in order to make the user-interface as convenient as possible and to enable the user to control complex processes from anywhere at any time. This goes along with maximum user-friendliness, for example using an Apple iPhone or an Apple iPad.

On the following pages, we will present you some of our products that are based on this concept and can be used with next.system.

For application developers: The XML-interface is open and can be used by anyone to create his own operating and visualization software.

## x.live

### Apple iPhone/iPad software

For Apple iPad  
For a clearly arranged handling or in order to display as many end devices as possible and to show result charts.



For Apple iPhone  
In order to have a permanent overview of the current situation, the iPhone is a self-evident option for mobile system management.

## x.live / x.touch

A convenient app on Apple iPad/iPhone/Touch Panel is used for the management of the building automation. It configures itself and is ready for use already after a few minutes. Temperature, light, shade, "scenes"(interactions of different devices), messages and much more can be managed using these simple and convenient systems. The visualization is simply modified according to your individual wishes using drag & drop, which makes handling even easier.

## x.touch

### Touchpanel software



Touch panel PC  
A fixedly installed touch panel makes many buttons redundant and provides valuable information like the energy consumption, for example.



August 3rd, 2009      Water temperature: 85° F      02:28 pm

Pool

Water temperature	85° F
Outside temperature	89° F
Air Pressure	965 hPA
Wind	1 km/h
Scene BBO	OFF
pH Value	OK
Filter	OK

Home    Options

Full screen display

The webbrowser below can be hidden completely. Thus, x.vision is also ideal for touch panel PCs and other end devices.

x.vision

Give the visualization of your management an individual face - that means your (company) logo!  
As the system is web-based and individually modified, almost everything is possible. Also a floor plan or a picture of the respective room including correctly positioned elements can be implemented as well as the visualization of the process cycles, for example the pumping operations of a solar heating. Thus, you virtually have a "picture" of the processes that are currently going on.

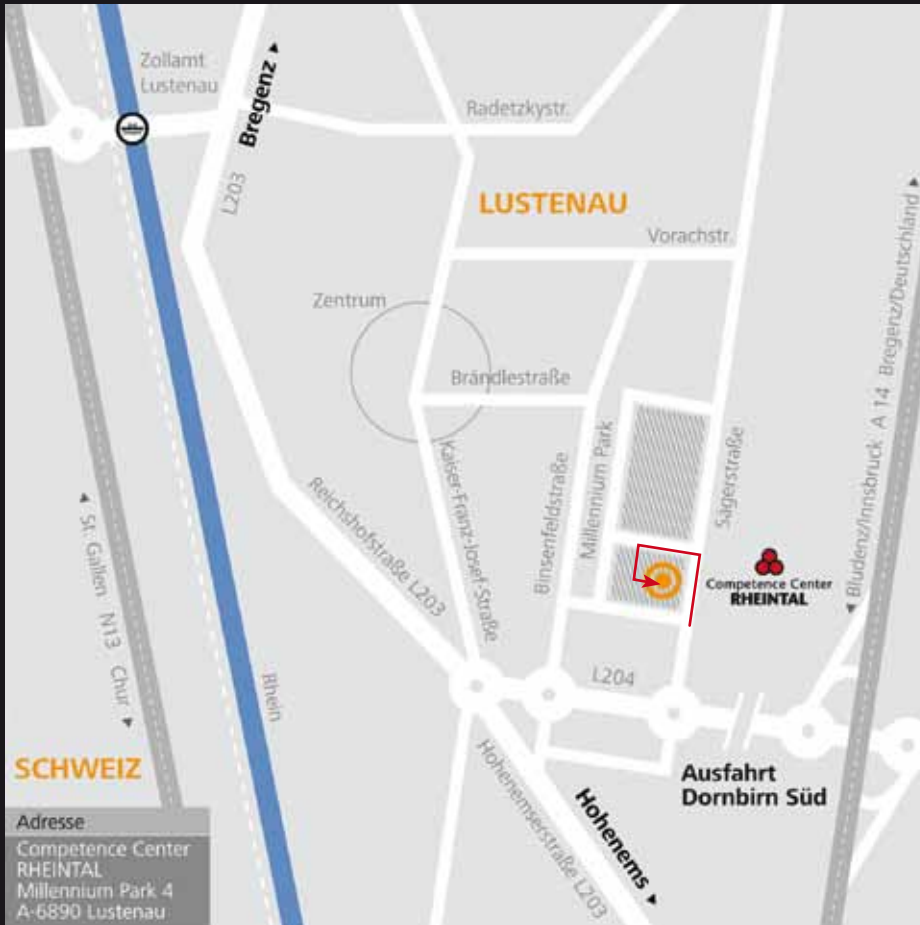
Floor plan display

In order to provide the user a better overview, realistic background pictures are integrated. These pictures can either be created using CAD-data or also by integrating a photo of the automated room.





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**automation.next**

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