

the future today |  
system solutions from a single source



System Solutions by

 **NETxAutomation**  
Software GmbH

**tci**



enjoy the future | experience comfort



## The 4th dimension of living

Why wait until tomorrow when the future can already be experienced at home today? Unique design and unmatched function united in the KNX-compatible systems offered by NETxAutomation and tci to form a harmonious unit. Enabling you to see on a stylish touch panel when your visitors arrive and select freely-defined lighting scenarios while the appropriate music plays at ideal air temperatures. Reassuring security and energy-optimised air-conditioning are also automatically provided in the process.

Ideal for you: We offer you entire hardware and software packages from a single source. All elements go perfectly together and you can look forward to a sophisticated solution right from the very start.

## Green Building

Isn't it just ingenious when your house displays maximum comfort accompanied by a high degree of security and efficiency? Our solutions turn your "smart home" into a "green home": heating and ventilation are co-ordinated entirely automatically while lights are dimmed or switched when they are not required. What's even more, you receive information on open windows or activated devices when you leave the house. This way sustainable environmental protection feels really good!



Comfort

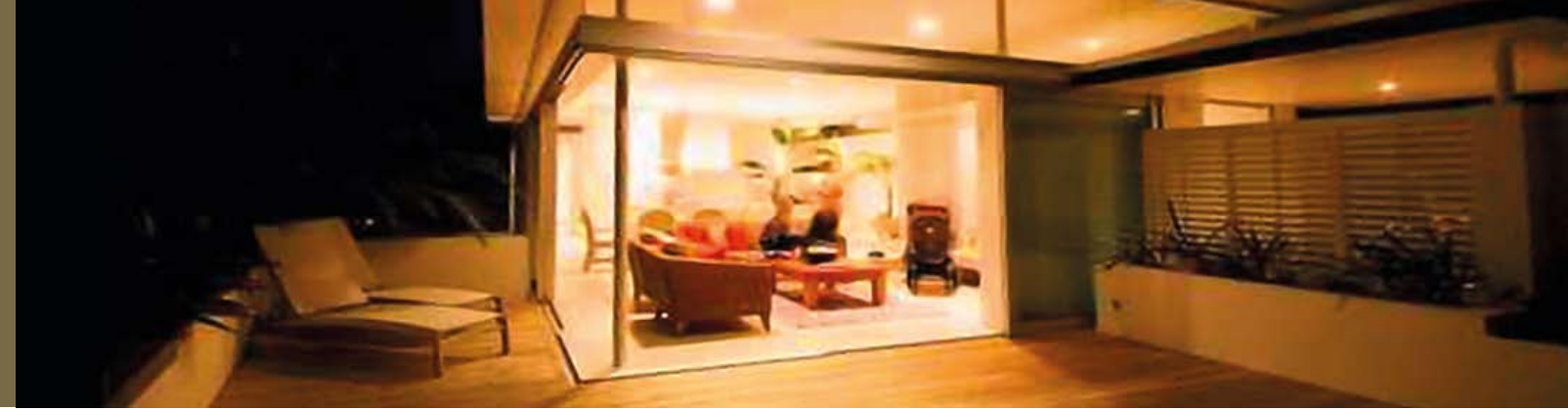
Security

Energy efficiency

Flexibility



infinite possibilities | finally possible



## Implementing good ideas in an ideal way

Regardless whether you start off with a small installation or plan a networked solution with every conceivable convenience – you already found the right partner in us. Our experts co-operate to find the ideal hardware and software which they combine to form a finished overall solution – from a single source and for even the most discerning demands.

## Integrated networks

All of the technical equipment such as lighting, shutters, sunblinds, air-conditioning, heating, multimedia, intruder protection and access control are integrated in the system via IP and/or KNX as well as being monitored and controlled central. Enabling you to react flexible to the requirements of the future, too.

## Energy Management

Systematic NETxLAB® MaRS Energy Management can reduce energy costs in a long-term. This is good for the environment and represents real cash savings. Several hundred measuring points can be integrated in a scalable and flexible manner. These include heating, ventilation and air-conditioning as well as lighting and other controllable consumers.

## Multimedia

Computers and media applications can be merged thanks to innovative multimedia control. With the touch panel systems from tci, everything is easily kept under control. Current technologies such as internet, e-mail, music and video distribution even as multi-room solutions are just as easy to realise as communication via intercom or CCTV control.

## Security

KNX is on guard for you 24/7. This intelligent network combines motion detectors, glass shatter sensors and shutter control with the alarm system. Panic buttons and even mobile phones can be included. The same applies for networked smoke detectors as well as water or gas sensors. The situation is detected and reported immediately before more extensive damage can arise. And to enable you to go on holiday with peace of mind, we make sure that your house looks “occupied”.



tci

KNX

NETxAutomation  
Software GmbH

hardware | as individual as you are

software | for flexibility every day

## Perfect in terms of design and function

Each ambiente is much more than a mere touch panel: it combines functionality with unique design.

Combine the materials which go best with your surroundings. Whether subtle glass, anodised aluminium, elegant wooden inserts or coloured plastic – the choice is yours!

What's more, intercoms and IR motion detectors can be integrated for energy-saving on/off switch applications.

All components are designed for smooth long-term operation which means you enjoy many years of building controls!



### ambiente

- Ultra-flat touch panel PC for frame-mounting with visual lightness
- With 10", 15" and 19" screen diagonals



### ambiente.mura

- Ultra-flat touch panel PC for under-plaster mounting with low installation depth
- With 8", 15" and 19" screen diagonals



### ambiente.mobile

- Mobile operating panel as a convenient supplement to ambiente
- With 8" and 12" screen diagonals



### amena

- Ultra-flat touch panel for under-plaster mounting
- Intelligent and flexible substitute for standard switches
- Particularly reasonable – for affordable comfort in every room
- With 3.5" and 7" screen diagonals

## Visualization – Voyager

The NETxLAB® Voyager controls and visualizes your KNX system using an OPC Server or a Direct(KNX) connection, thereby presenting the world of KNX on a convenient user interface.

The focus for users is on easy set-up and operation thanks to Drag&Drop as well as practicality for major projects. With the result that the Voyager can be used anywhere in automated building management. Whatever you wish to control – we swiftly realise professional visualizations in a reliable, open and above all user-friendly system.

### Features

- **User convenience**  
Project planning using the Drag&Drop feature enables you to achieve a complex visualization in the shortest of time. Voyager makes set-up and application faster than ever.
- **Design**  
The professional and fast graphic interface enables individual design of your visualization. There are no limits to your creativity.
- **Unlimited possibilities**  
From family homes to airport projects. The Voyager makes any conceivable visualization possible and is always stable.

## OPC Server interface Fidelio®

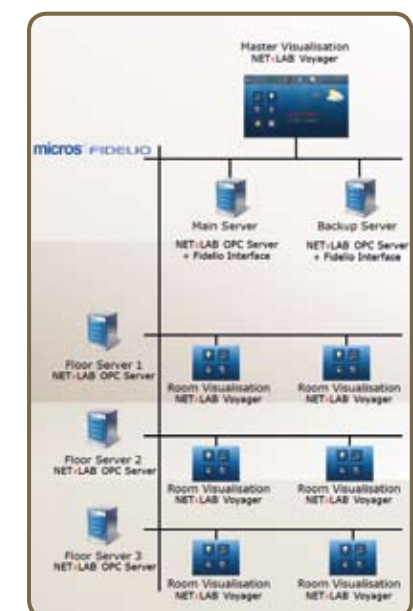
The NETxLAB® Fidelio interface permits connections of the KNX bus to the Micros® Fidelio/Opera Hotel Management System, enabling data to be exchanged between the two systems and thereby connected, jointly controlled and visualized.

## Server solutions – OPC Servers

NETxKNX® OPC Server solutions represent the heart piece of any installation. This is where all of the data comes together which means that the OPC Server represents a bridge between the KNX world and other systems.

### Features

- **Reliability**  
designed and developed for long-term operation
- **Scalability**  
up to 1000 IP gateways and more than 100,000 data points can be managed
- **Performance**  
enormous data transfer – up to 1,000 telegrams a second
- **Central monitoring**  
expanded OPC studio offers telegram and data point value monitoring
- **Redundancy**  
permits coupling of 2 OPC servers for even more reliability



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NETxAutomation  
Software GmbH



## We supply the right tools for any application

### From family homes to major projects

Benefit from our experience acquired within the framework of many successful national and international projects. We would like to provide you with a brief insight into some of the installations we have already realised; please feel free to request reports on any of these projects!

#### ■ Airport Beijing, Terminal 3, China

Size: ca. 100,000 data points, 2 x 260 gateways.  
Control of the entire lighting, heating, ventilation and air-conditioning via two NETxKNX® OPC Servers.

#### ■ New Bangkok International Airport, Thailand

Size: ca. 15,000 data points, 2 x 10 gateways.  
Control of around 60,000 lights as well as heating, ventilation and air-conditioning via two NETxKNX® OPC Servers.  
Visualization via the NETxLAB® Voyager.

#### ■ Mercedes Technologie Center – Daimler AG, Germany

Size: ca. 120,000 data points, 13 x 10 gateways.  
Lighting control, air-conditioning and shading as well as Cost Centre and Load Management of consumers via 13 NETxKNX® OPC Servers.

#### ■ Frankfurter Welle, Germany

Size: ca. 135,000 data points, 7 x 20 gateways.  
Control of lighting by seven NETxKNX® OPC Servers.  
Shading on ca. 4,800 windows with shutters and 3D calculation of annual sunshine using the NETxLAB® Shutter Control System.

#### ■ Deloitte Headquarters – Copenhagen, Denmark

Size: 5,000 data points, 2 x 5 gateways.  
Control of lighting by two NETxKNX® OPC Servers.  
Heating and cooling control via the NETxLAB® Heating/Cooling System.  
Shading controlled via the NETxLAB® Shutter Control System.



Ludwig-Rinn-Strasse 10-14  
35452 Heuchelheim/Giessen  
Germany

Phone: +49 (0) 6 41 - 962 84 - 0  
fax: +49 (0) 6 41 - 962 84 - 28

e-mail: [info@ambiente.de](mailto:info@ambiente.de)  
[www.ambiente.de](http://www.ambiente.de)

Member of the KNX Association



Maria Theresia Strasse 41  
4600 Wels  
Austria

Phone: +43 (0) 7242 252 900 - 0  
fax: +43 (0) 7242 252 900 - 21

e-mail: [office@netxautomation.com](mailto:office@netxautomation.com)  
[www.netxautomation.com](http://www.netxautomation.com)

Member of the KNX Association and OPC Foundation