KNX National Group
Czech Republic

Foundation Meeting

September 24th, 2014

KNX Association International

www.knx.org
The worldwide STANDARD for home and building control
KNX is the Standard

- **CENELEC**
  
  **EN 50090** – the only European Standard for Home and Building Electronic Systems (HBES) based on KNX.

- **CEN**
  
  **EN 13321-1** – the European Standard for Building Automation based on KNX.

- **ISO/IEC**
  
  **ISO/IEC 14543-3** – the World`s only Standard for Home Electronic Systems (HES) based on KNX.

- **GB/T**
  
  **GB/T 20965** – Chinese Standard for Home and Building Control based on KNX

- **US Standard (ANSI/ASHRAE 135)**

**KNX: The worldwide STANDARD for home and building control!**
Advantages of KNX

www.knx.org
KNX – Advantage No. 1

KNX is a standard here to stay!

- **CENELEC**
  2003: KNX became **EN50090**

- **CEN**
  2005: KNX became **EN13321-1/2**

- **ISO/IEC**
  2006: KNX became **ISO/IEC14543-3**

- **SAC (P.R. China)**
  2013: KNX became **GB/T 20965**

- **ANSI/ASHRAE**
  KNX referenced in **US ANSI/ASHRAE standard 135**
KNX – Advantage No. 2

Guaranteed Interoperability through neutral certification

1. KNX is the only home and building control standard running global certification schemes for
   A. Products
   B. Training Centers
   C. Persons

2. Product compliance is checked at neutral third party test laboratories

KNX Logo guarantees interoperability between products of different manufacturers and applications
KNX – Advantage No. 3

KNX = High Product Quality

1. KNX Association requires *high level production and quality control* during all stages of the product’s life

2. All manufacturers have to show compliance to *ISO 9001 = prerequisite for product certification*
KNX – Advantage No. 4

One Tool – the Engineering Tool Software ETS™!

1. One PC software tool for
   A. Design
   B. Configuration
   C. Diagnostics
   of KNX all certified products

2. Tool is manufacturer, devices and application independent – integrator can combine products of different manufacturers and applications in one installation

3. Tool is extendable with customized Apps
KNX – Advantage No. 5

Fit for use in ALL applications in home and building control!
KNX – Advantage No. 6

Fit for use in all kinds of buildings!

1. New or Existing Buildings

2. One family houses or large size buildings

3. Easy extendible/adaptable to new needs
KNX – Advantage No. 7

Support for different transmission media

1. **Twisted Pair**

2. **Power Line**

3. **Radio Frequency**

4. **Ethernet/WIFI**
KNX – Advantage No. 8

Support for different configuration Modes

1. **System Mode**
   A. Configuration with PC (ETS)
   B. Prior basic course training recommended
   C. Any size of installation

2. **Easy Mode**
   A. Configuration without PC
   B. No prior training necessary
   C. Small or medium size installations
KNX – Advantage No. 9

Easy coupling to other systems

1. KNX members offer large variety of gateways to couple to other systems

2. Examples

   A. Mapping to BACnet

   B. Interfacing with DALI
KNX – Advantage No. 10

KNX is independent from any hard- or software technology

1. KNX manufacturers can develop own protocol solution
   1. From scratch
   2. On basis of existing certified system components from other KNX members

2. KNX is completely FREE of additional royalty fees: No IPR royalties to be paid for KNX standard features used in KNX certified products to other KNX members
369 Members in 37 countries
369 Members in 37 countries

Australia  Austria  Belgium  Canada  China  Croatia  Czech Republic  Denmark  Finland  France  Germany  Greece
Hungary  India  Israel  Italy  Japan  Saudi Arab.  Latvia  New Caledonia  New Zealand  Norway  Poland  Portugal
Russia  Singapore  Slovenia  S-Korea  Spain  Sweden  Switzerland  Taiwan  Netherlands  Turkey  UAE  UK

USA
KNX Members

KNX: The worldwide STANDARD for home & building control
More than 7000 certified KNX Devices
299 Training Centres in 55 countries
299 Training Centres in 55 countries
43573 Partners in 127 countries
43573 Partners in 127 countries
KNX Partners

Annual Increase

Total number

KNX: The worldwide STANDARD for home & building control
107 Scientific Partners in 29 countries
107 Scientific Partners in 29 countries
KNX Scientific Partners

Annual Increase

2003 11
2004 14
2005 8
2006 7
2007 6
2008 3
2009 12
2010 69
2011 75
2012 87
2013 98

Total number
16 Userclubs in 15 countries

Austria
Belgium
Germany
Greece
Hong Kong
Hungary
India
Kuwait
Malaysia
Norway
Poland
Russia, CIS and Baltics
Spain
Sweden
The Netherlands
16 Userclubs in 15 countries
7 Associated Partners
Local representation of KNX: 42 KNX National Groups
42 KNX National Groups
11 Test labs in 5 countries
ETS Sold in more than 120 countries
KNX Projects in more than 120 countries
BSRIA

European Smart Home Market Study

www.knx.org
European Smart Home Market Study

Share of KNX in the total smart home market value

<table>
<thead>
<tr>
<th>Year</th>
<th>KNX Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>63%</td>
</tr>
<tr>
<td>2010</td>
<td>67%</td>
</tr>
<tr>
<td>2011</td>
<td>70%</td>
</tr>
<tr>
<td>2012</td>
<td>74%</td>
</tr>
</tbody>
</table>
„In 2011 the share of KNX-based solutions exceeded 70% of the total market value. In the last three years, the KNX share has been adding three percentage points on average, suggesting the growing importance of KNX“

(„BSRIA - Smart home market: impressive growth; new opportunities”, June 20, 2012)
KNX city

New business opportunities

www.knx.org
From the KNX building to the KNX city

- Buildings are responsible worldwide for…
  - …40% of the consumption of final energy
  - …21% of the production of greenhouse gases
  - …an increasing demand for energy
Energy Efficiency in the KNX Buildings

Energy Savings with KNX in the buildings:

- up to 40% with KNX shading control
- up to 50% with KNX individual room control
- up to 60% with KNX lighting control
- up to 60% with KNX ventilation control
From the KNX building to the KNX city

- Cities are worldwide responsible for…
  - …two third of the total energy consumption
  - … 60% of the total water consumption
  - … 70% of the production of greenhouse gases

- More than 50% of the world population live already today in metropolitan areas
  - ➔ Until 2050 it will be up to 70% of the world population
KNX has its focus in the building…
… but considers Smart Grid and city issues

- A “Single solution” doesn’t meet city sustainability objectives
- Smart cities require buildings that interact with the city
- Different fields need to interact. Examples:
  - “Mobility” effects “buildings”, e.g. charging of electric vehicles
  - „Energy generation“ affects buildings, e.g. decentralized generation on roofs of “buildings”.
  - The building affects the “City”, e.g. by feeding in surplus energy into the grid.

→ KNX city sets a new focus with existing KNX technologies in the buildings
KNX city distributed facilities

- KNX offers communication by twisted pair, IP and radio frequency
- Buildings can be connected to each other over distances by IP as if they were one building
  - Distributed facilities
  - Energy management over distances
  - Balancing of generation and consumption of different buildings.
From the building to the KNX city

KNX city offers solutions in the interaction of buildings, mobility, infrastructure and energy generation.
KNX city
KNX city - Taiwan
KNX city - China

KNX provides a whole system solution for sustainable city.
KNX Facts & Figures September 2014

- 369 KNX Members in 37 countries
- 7000 certified product groups
- 43573 KNX Partners in 127 countries
- 299 Training Centers in 55 countries
- 107 Scientific Partners in 29 countries
- 16 Userclubs in 15 countries
- 7 Associated partners
- 42 National Groups
- 11 Test labs in 5 countries
- ETS sold in more than 120 countries
Join the worldwide KNX community

Czech Republic
KNX National Group
Czech Republic

Foundation Meeting

September 24th

KNX Association International

www.knx.org
Agenda

1. Summary, Discussion and Adaptions of Statutes
2. Election of Offices
3. Signing of Cooperation Agreement
4. Further Activities
5. Open Discussion
The Statutes of the KNX National Group Czech Republic
Agenda

1. Summary, Discussion and Adaptions of Statutes
2. Election of Offices
3. Signing of Cooperation Agreement
4. Further Activities
5. Open Discussion
1. Statutes

1. Name

This Association should be known as „KNX National Group Czech Republic“
1. Statutes

2. Place of Business

The place of business shall be: KNX National Group Czech Republic C/o Brno University of Technology Antonínská 1, 602 00 Brno
3. Objectives

- To **represent and promote** KNX in Czech Republic;

- To **assist in the development and application** of technology, infrastructure and manpower skills for KNX;

- To **promote the development and applications of KNX Systems** for the expansion of Intelligent Building Control;

- To **advance, and actively promote and support education and technical training** to include KNX in the local teaching curriculum and to enhance productivity, skills and product quality for consultants and electrical contractors;

- To **act as the advisory, consultative and coordinating body** for KNX Systems;
1. Statutes

3. Objectives

- To **acquire new members** for the KNX Association International
- To **promote the usage of the Engineering Tool Software (ETS)**
- To **act as a negotiating body for members** of the association concerning intelligent building control systems and technology with users, specifiers and relevant regulators;
- To **organize and/or participate in exhibitions, conferences for the promotion of its activity**;
- To **promote trade, friendly relations and contacts**;
- Generally to **do all lawful things** as the association may consider incidental or conductive to the attainment of objects of the association or any of them.
1. Statutes

4. Membership

- **Board Membership:**
The Board Membership is **open to all members of KNX Association International in Czech Republic.**
Board Members are decision makers for all activities of KNX National Group Czech Republic during the Board meetings (2-3 / year).
Board Members have a **weighted vote of 5** in the General Assembly.

- **Ordinary Membership:**
Ordinary Membership is **open to manufacturers (respectively to only one of their official representative).**
Ordinary members are invited to the GA (1/year) in order to approve the common budget for the next financial year.
**Ordinary Members have a weighted vote of 2 votes in the GA.**
If the company, which is represented by an official representative, joins itself, the official representative shall resign and be listed as an integrator member,
4. Membership

- **Integrator Membership:**
The System Integrator Membership is open to persons, involved in the integration of KNX Solutions in home and buildings (like contractors, system integrators, consultants, specifiers and architects).
Integrator Members are invited to the General Assembly (1/year) in order to approve the common budget for the next financial year.
Integrator Members have one weighted vote in the General Assembly.

- **Associated Membership:**
The Associated Membership is open to companies, institutions, statutory bodies and relevant regulators of national standings, supporting and promoting the aims and essence of the association.
Associated Members have one weighted vote in the General Assembly.
4. Membership

- **Educational Membership:**

The Educational Membership is open to educational institutions, like universities and (vocational) schools that are directly linked to the KNX Technology for supporting the aims of the association. Educational Members have no right to vote in the General Assembly.
1. Statutes

5. Entrance Fees, Annual Subscription

- Entrance fee shall be CZK 25,000

- Educational Memberships are not subject of entrance fees or annual subscriptions as long as relevant KNX Training and Research & Development are conducted.
1. Statutes

5. Entrance Fees, Annual Subscription

- Entrance Fee shall be waived for foundation members

(Members, which hand in their application form till the day of official Czech registration)
5. Entrance Fees, Annual Subscription

• Entrance fee shall be CZK 25,000

• Educational Memberships are not subject of entrance fees or annual subscriptions as long as relevant KNX Training and Research & Development are conducted.
1. Statutes

6. Membership Fee Structure (from 1st of January 2014 on)

KNX National Group Czech Republic:

...
1. Statutes

Schedule for 2014/2015:

- KNX Training Workshop (Q4 2014)
- KNX Technical Workshop (Q1 2015)
- KNX Czech Republic Fair (Q2 2015)
- KNX city Forum (Q3 2015)
- 2nd Czech Forum (August 2015)
- For Arch (September 2015)
- ...and much more!
6. Membership Fee Structure (from 1st of January 2014 on)

KNX National Group Czech Republic:

- Board Members: CZK 100,000
- Ordinary Members: CZK 50,000
- Integrator Members: CZK 25,000
- Associated Members: CZK 30,000
Agenda

1. Summary, Discussion and Adaptions of Statutes
2. Election of Offices
3. Signing of Cooperation Agreement
4. Open Discussion
2. Election of Offices

1. Management and Committee

The administration of the Society shall be entrusted to a Committee consisting of the following to be elected:

President

Vice President

Secretary

Treasurer

The President shall chair the General and Committee Meetings. He shall also represent the Society in its dealings with outside persons.
2. Election of Offices

1. Management and Committee

The administration of the Society shall be entrusted to a Committee consisting of the following to be elected:

Vice-President

The Vice-President shall assist the President and deputize for him in his absence but will not take any decision without the consent of the President.
2. Election of Offices

1. Management and Committee

The administration of the Society shall be entrusted to a Committee consisting of the following to be elected:

Secretary

The Secretary shall keep all the National Group's activities and key records of the Society and shall be responsible for all decision-making at Board meetings. He shall maintain an up-to-date Register of Members at all times. He shall not keep more than CZK 15,000 in cash and money in excess of this will be deposited in a bank to be named by the Committee. For the Secretary’s work, the Secretariat will be remunerated from the funds received via membership fees and decided upon by the General Assembly.
2. Election of Offices

2. Election:

President

Proposal:
Jiri Plachy,
Marketing Manager
ABB
2. Election of Offices

2. Election:

Vice President

Proposal:
Jakub Horna, Siemens
2. Election of Offices

2. Election: Secretary

Proposal: Josef Kunc
Agenda

1. Summary, Discussion and Adaptions of Statutes
2. Election of Offices
3. Signing of Cooperation Agreement
4. Open Discussion
3. Signing the Statutes

By signing the cooperation agreement, the KNX NATIONAL GROUP CZECH REPUBLIC will be an official KNX National Group.

Czech Republic
Agenda

1. Summary, Discussion and Adaptions of Statutes
2. Election of Offices
3. Signing of Cooperation Agreement
4. Open Discussion
4. Open Discussion
Thank you very much for your attention

For any questions – Contact info@knx.org – www.knx.org