



KNX: Case study Consortium and IPR

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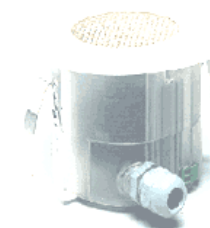
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- Achievements in International Standardization
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Who and what is KNX? (1)

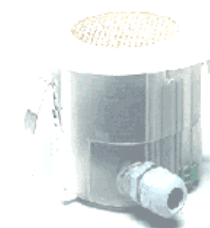
- Association founded *May 1990*
- Headquarters in the suburbs of *Brussels*
- Object of the association:
 - promotion KNX as a technical solution for *home and building control* (“intelligent homes/buildings”)
 - HBES can improve energy efficiency of homes and buildings in the area of lighting and HVAC by up to 50%
- Pools the resources of three former European Associations EIBA, Batibus and EHSA
- *Profit* organization: income from
 - Membership contributions
 - Certification of KNX compatible devices (symbolized by the KNX Trademark)
 - Certification of training centers
 - Licensing of KNX Tools – No sale of electronics





Who and what is KNX? (2)

- *KNX members*
 - Currently more than 200
 - Including key players in the electrical, HVAC, white goods, audio market
 - Including SMEs as well as multinational companies
 - Companies predominantly with European headquarters but some also in Asia/USA – representation in 22 countries worldwide
 - Number of involved manufacturers more doubled since 2001!
 - Offering KNX compatible solutions ranging from system components/stack implementations to complete off-the-shelf devices



International Standardisation Achievements

- KNX standard approved as a *European standard EN 50090* (December 2003) for Home and Building Electronic Systems, including
 - Protocol
 - Transmission media
- Referencing in CEN of EN 50090 as *EN 13321-1* approved December 2005 for Building Automation Control Systems
- EN 50090 approved as a worldwide standard as part of *ISO/IEC 14543 series* in October 2006
- IP Routing/Tunneling specifications approved in CEN as *EN 13321-2*
- *Chinese* translation of EN 50090 approved by SAC in July 2007 (*GB/Z 20965*)
- *Korean* translation in the process of national standardization





How?

- KNX became *Cooperating Partner* in 1999: by doing so:
 - KNX is able to make standard proposals without the need for a New work item proposal of a supporting country
 - KNX must relinquish copyright on standard text, even if it is derived from its industry standard: later publication and sale by national standardization bodies
- Submission to CENELEC *Technical Committee 205* 'Home and Building Electronic Systems' : Approval (as always) via voting by national committees
- Voting track followed: Unique Acceptance Procedure
- Requirement for voting: IPR Declaration from KNX
 - Granting of any IPR on Reasonable and Non-discriminatory conditions by its members
 - KNX has own IPR License procedure inside association: contract to be signed by any KNX members wishing to certify KNX devices
 - Does not cover third party IPR (KNX does not conduct IPR checks on patents on specifications other than that of its members)
 - Also ESOs insert disclaimer on this in standard text
 - Standardization bodies shall require consortia supplying input for standards to have internal IPR procedure to ensure that:
 - any member of the consortium is bound by these (contractual) obligations (including FRAND conditions for standardization), even when leaving the consortium
 - Obligation by member to report on change of ownership of patent



Thank you for your attention !

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