

EHS AND KNX PROTOCOLS FOR POWER-LINE COMMUNICATION

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Technical services in the home have become a reality: control, security, diagnostics, and more. Soon your kitchen will be connected to the Internet. Your refrigerator, oven, and clothes dryer will communicate the temperature, the remaining cooking time, and the suggested drying time. Such services incorporated into your appliances provide greater comfort and convenience as well as increase the security in your home.

European communication standards have created a wide market for home technology products. TRIALOG produces components for the European Home Systems (EHS) standard, and it participates in the development of the KNX standard (EN 50090).

TRIALOG offers seminars on the EHS and KNX protocols as well as training courses on application development.

Seminar goals

- Introduction and details of EHS and KNX communication protocol
- Hands-on application development

The training is oriented towards managers (1 day) or developers (2 days).
The level can be for people with no previous knowledge of the protocol or for people who are already well acquainted with the domain.
It contains theory and/or practical, hands-on application development experience.

A seminar can be tailored to your specific needs. It can be at TRIALOG, or in exceptional cases at the client's site.

After such a seminar, engineers with absolutely no previous knowledge or experience with either protocol are able to return to their companies and develop sophisticated products completely on their own.

Seminar agenda (Duration: 2 days)

- 1. Objectives and Stakes of the EHS/KNX protocol
 - History, Installation Procedure
 - KNX versus EHS protocols
- 2. General Aspects of the protocols
 - OSI layers
 - The values of EHS and KNX
- 3. The Power Line
 - Cenelec Standard
 - Main issues for power line development
- 4. Application Models
 - Application Language
 - Application Interoperability Specification
- 5. Communication protocol
 - Plug & Play Protocol
 - Communication Gateways
- 6. Products Certification
 - Certification Procedure by Konnex Association
 - Conformance Test Specification
 - Interoperability Test Tool
- 7. Trialog technology products
 - Chipset
 - Libraries and Drivers.
 - Development Tools
- 8. Application examples
 - Programming Exercises