

Echelon Announces ISO/IEC Standardization of LonWorks® Control Networks



NEWSLETTER APICE 03/09

(San Jose, CA - December 3, 2008) - Echelon Corporation announced that the technologies underlying Echelon's LonWorks platform have been approved as a global control standard by the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC). Tens of millions of LonWorks based devices have been installed in a wide variety of applications worldwide in buildings, factories, trains, electric utilities, coal mines, and homes around the world.



ISO/IEC standardization represents the highest level of standardization attainable and reflects the tremendous market support and adoption of the LonWorks platform by thousands of companies worldwide. The acceptance of the protocol and key signaling technologies underlying LonWorks networks as ISO/IEC standards helps assure continued adoption of the platform, especially in the growing market for energy demand management in commercial buildings and homes.

Some of the world's most notable energy and control applications are built using the LonWorks platform including:

- The world's first and largest advanced metering infrastructure (AMI) system of over 27 million homes in Italy;
- McDonald's Corporation's "Kitchen of the Future";
- New York City Schools building control systems;
- City of Oslo's managed street lighting system that reduces lighting energy use by 40%;
- Duke Energy's "Utility of the Future" AMI pilot.

ISO and IEC have granted the communications protocol, twisted pair signaling technology, power line signaling technology, and Internet Protocol (IP) compatibility standard numbers ISO/IEC 14908-1, -2, -3, and -4 in the realm of building automation, control and building management.

Previously these technologies were standardized in Europe as EN 14908-1, 2, 3, and 4, in China as GB/T 20299.4-2006 and GB/Z 20177.1, 2, 3, 4-2006, and in the United States as ANSI/CEA 709.1, .2, and .3 and ANSI/CEA-852.

Since 1999, the underlying protocol, twisted pair, and power line signaling technology for the LonWorks control networking platform have been known collectively as the ANSI/CEA 709 -family of standards. Subsequently, ANSI/CEA-852 was ratified to add the use of the Internet Protocol (IP) as a transport medium for the LonWorks platform. The LonWorks platform has been ratified in numerous national and international standards for control and communications:

- IEEE for train controls
- EN 14908 for building controls in Europe
- AAR for electro-pneumatic train braking systems
- SEMI for semiconductor manufacturing equipment
- BACnet for heating, venting and air-conditioning equipment (transport layer)
- IFSF for European petrol stations
- GB/T for intelligent communities in China
- GB/Z for building automation in China

Some of the world's leading companies have adopted the LonWorks platform as the basis for global product offerings including, Samsung Electronics, Honeywell, Siemens, Philips, TAC, Groupe Schneider, Trane Company, and Johnson Controls.

Additional information about standards utilizing the technology of the LonWorks platform can be found at http://www.echelon.com/company/press/2008/ISO_IEC_QA.htm.