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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 30995.1-2014

**Information technology -- Home electronic system -- Guidelines
for product interoperability -- Part 1: Introduction**

信息技术 家用电子系统（HES） 产品互操作性指南 第1部分：导言
(English Translation)

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Foreword

GB/T 30995 "Information technology - Home Electronic Systems (HES) Product Interoperability Guide" is divided into three parts.

--- Part 1. Introduction;

--- Part 2. classification system and vocabulary;

--- Part 3. application model.

This section GB/T Part of 130,995.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses redrafted law revision using ISO/IEC 18012-1:2004 "Information technology - Home Electronic Systems product interoperability Guide Part 1. Introduction. " this part made the following technical corrections.

--- Normative references in the original using ISO/IEC TR314762, this standard has been canceled, modified to ISO/IEC 14762 "Information technology - Home and building electronic systems (HBES) with functional safety requirements." this part of the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

This section drafted by. China Electronics Standardization Institute.

Introduction

Extensive development of many national and private family network, has made the family system interoperability standards between applications is essential.

This standard will ensure the application of the same or a different network to coexist in the same buildings, and interoperability requirements, they will be safe, Reliable, predictable and consistent manner at work. In order to develop other parts of this series of standards provides a framework, this section defines Interoperability of components.

This section applies within the network, and within a local network between heterogeneous network components. It also applies to the equipment, for heterogeneous network connection.

In the field of home and building automation products from multiple vendors interoperate needs. Each are longing for a seamless manner to provide a single, Unified Network in order to deliver a wide variety of applications, such as lighting control, environmental control, and control audio and video equipment, and home security.

Figure 1, in the same building, the two (or more) of heterogeneous networks, each network should conform to this part, when in some matter

Processing means link, expects its shape as a network logically.

Figure 1 two interoperable network

Information technology - Home Electronic Systems (HES)

1 Part, Product Interoperability Guide. Introduction

1 Scope

GB/T 30995 provisions of this part of the home and building automation systems in the field of product interoperability requirements. This section provides the OSI reference model, wherein the first layer 6 and the layer 7 is sufficient for home electronic systems required for the design interoperable products, and 1 to 5 layers only Provisions to the extent of inspection equipment can interoperate.

This section applies to.

--- Independent LAN/home network devices and applications connected;

- Mixed LAN/home network, connect the devices and applications;
- Autoconfiguration;
- Staffing installation equipment;
- Installer configured the device group and device cluster.

This section of the system set up, operation and management provides for interoperability for set connected to a single family or a different control system Preparation. Although a single, unified home control system will simplify the operation, but in this section to confirm a number of different networks can coexist in the same family. Headquarters Sub-requirements, to ensure that the equipment from multiple vendors to work together to provide a particular application. At the same time, it is possible to use a specific device in a variety of Applications.

This section provides the interoperability requirements relate to.

- Safety;
- Addressing;
- application;
- Information transport;
- Set the device in the home network (element) - the static and/or dynamic binding between objects;
- management.

This section does not specify how the control system of two families share common resources, nor how to ensure that the provisions of the two sets of the same building used

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 9387.1-1998 Information technology - Open Systems Interconnection - Basic Reference Model - Part 1 Basic model (ISO/IEC 7498-1:1994, IDT).

ISO/IEC 14762 Information technology - Home and building electronic systems (HBES) with functional safety requirements

[Information technology-Functional safety requirements for Home and Building Electronic Systems (HBES)]

3.1 Terms and Definitions

The following terms and definitions apply to this document.