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FOREWORD

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International Standard ISO/IEC 14543-5-22 was prepared by subcommittee 25: Interconnection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

The list of all currently available parts of ISO/IEC 14543 series, under the general title *Information technology – Home electronic system (HES) architecture*, can be found on the IEC web site.

This International Standard has been approved by vote of the member bodies, and the voting results may be obtained from the address given on the second title page.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

INTRODUCTION

ISO/IEC 14543-5, *Intelligent Grouping and Resource Sharing for HES (IGRS),* is divided into seven parts:

- **Part 5-1: Core protocol**
  - Specifies the TCP/IP protocol stack as the basis and the HTTP protocol as the message-exchanging framework among devices.
  - Defines a series of device and service interaction/invocation standards, including device and service discovery protocol, device and service description, service invocation, security mechanisms, etc.
  - Specifies core protocols for a type of home network that supports streaming media and other high-speed data transport within a home.
- **Part 5-21: Application profile – AV profile**
  - Based on the IGRS Core Protocol.
  - Defines a device and service interaction mechanism, as well as application interfaces used in IGRS Basic Applications.
- **Part 5-22: Application profile – File profile**
  - Based on the IGRS Core Protocol.
  - Defines a device and service interaction mechanism, as well as application interfaces used in IGRS Basic Applications.
- **Part 5-3: Basic application**
  - Includes an IGRS basic application list.
  - Defines a basic application framework.
  - Addresses operation specifics (device grouping, service description template, etc.), function definitions, and service invocation interfaces.
- **Part 5-4: Device validation**
  - Defines a standard method to validate an IGRS-compliant device.
- **Part 5-5: Device types**
  - Defines IGRS Device types used in IGRS applications.
- **Part 5-6: Service types**
  - Defines basic service types used in IGRS applications.

INFORMATION TECHNOLOGY – HOME ELECTRONIC SYSTEM (HES) ARCHITECTURE –

Part 5-22: Intelligent grouping and resource sharing for HES Class 2 and Class 3 – Application profile – File profile

1 Scope

This part of ISO/IEC 14543 specifies the file data streaming application profile, device interaction flow model, the request and response messages in the device interaction process, and the service description format of the devices based on Intelligent Grouping and Resource Sharing (IGRS), ISO/IEC 14543-5-1.

This standard is applicable to resource sharing and service collaboration of file data stream among computers, consumer electronics, and communication devices in a Local Area Network (LAN) or Personal Area Network (PAN) environment, especially in a wireless dynamic network.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

The provisions of the referenced specifications other than ISO/IEC, IEC, ISO and ITU documents, as identified in this clause, are valid within the context of this International Standard. The reference to such a specification within this International Standard does not give it any further status within ISO or IEC. In particular, it does not give the referenced specification the status of an International Standard.

ISO/IEC 14543-5-1, *Information technology – Home electronic system (HES) architecture – Part 5-1: Intelligent grouping and resource sharing for Class 2 and Class 3 – Core protocol*

W3C SOAP 1.2: *Simple Object Access Protocol Version 1.2*
http://www.w3.org/2002/12/soap-envelope