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Edition 1.0 2016-04

# INTERNATIONAL STANDARD



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## Information technology – Home network resource management – Part 2: Architecture





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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
Fax: +41 22 919 03 00  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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**Information technology – Home network resource management –  
Part 2: Architecture**

INTERNATIONAL  
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## INFORMATION TECHNOLOGY – HOME NETWORK RESOURCE MANAGEMENT –

### Part 2: Architecture

#### FOREWORD

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International Standard ISO/IEC 30100-2 was prepared by subcommittee 25: Interconnection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

A list of all currently available parts of the ISO/IEC 30100 series, published under the general title *Information technology – Home network resource management*, can be found on the IEC website.

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.

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## INTRODUCTION

The ISO/IEC 30100 series of standards specifies an abstract model for remote management of home networks conforming to the Home Electronic System (HES) architecture specified in ISO/IEC 14543-2-1. HES consists of a collection of devices that are able to interwork via a common internal network. In a home environment several HESs may operate concurrently, each with separate control and management methods. The Home resource management architecture allows uniform fault processing, diagnostics and configuration management of HES elements in a home environment.

The ISO/IEC 30100 series specifies the home network resource management architecture and an information model for various home network elements. The information model specifies the minimum requirements of the functionalities that shall be provided by each HES entity. It is specified by the XML-based schema provided in Clause 7. The information consists of the mandatory and optional attributes including user-defined attributes. The user-defined attributes are used for a proprietary purpose or to define attributes that are not specified in the information model. In this part, the information model is specified to cover the physical space, device, network and service information. This information model can be easily extended to accommodate new types of information including user-defined attributes. These functionalities are required to accommodate changes with minimal uploads and restructuring.

Currently, ISO/IEC 30100, *Information technology – Interconnection of information technology equipment – Home Network Resource Management*, consists of the following parts:

Part 1: Requirements

Part 2: Architecture

Part 3: Management application

ISO/IEC 30100 is applicable to:

- a management server located at a home network service provider that manages home networks;
- an apartment complex server, located in an office at the apartment complex;
- a home residential gateway or set top box (STB).