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ISO/IEC 30100-3

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# INTERNATIONAL STANDARD



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**Information technology – Home network resource management –  
Part 3: Management application**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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# INFORMATION TECHNOLOGY – HOME NETWORK RESOURCE MANAGEMENT –

## Part 3: Management application

### FOREWORD

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International Standard ISO/IEC 30100-3 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 the ISO/IEC 30100 series, 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. An HES consists of a collection of devices that are able to interwork via a common internal network. In a home environment several HES networks may operate concurrently each with separate control and management methods. This part of ISO/IEC 30100 specifies the architecture and the base methodology to support applications that may span multiple different HES networks. Home resource management allows uniform fault processing, diagnostics and configuration management of HES elements in home environment.

This standard specifies an architecture for the home network resource management, a home resource model for transparent system configuration and a diagnostic processing in the home network.

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,
- an apartment complex server, located in an office at the of apartment complex office,
- a home residential gateway or set top box (STB).

# INFORMATION TECHNOLOGY – HOME NETWORK RESOURCE MANAGEMENT –

## Part 3: Management application

### 1 Scope

This part of ISO/IEC 30100 specifies a control and management interface for the integrated home network resources at the top of the interoperability framework specified by ISO/IEC 18012-1. Methods are specified for controlling and managing home network resources through a consistent interface regardless of the underlying home network middleware technologies. Based on the home resource management interface, a management application specifies HES device control services and fault management services. This part of ISO/IEC 30100 specifies the communications data formats and functions for messages sent between the objects of a resource management process and the objects of one or more management applications.

### 2 Normative references

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

ISO/IEC 14543-2-1, *Information technology – Home electronic system (HES) architecture – Part 2-1: Introduction and device modularity*

ISO/IEC 18012-1:2004, *Information technology – Home electronic system – Guidelines for product interoperability – Part 1: Introduction*

ISO/IEC 30100-2, *Information technology – Home network resource management – Part 2: Architecture*<sup>1</sup>

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<sup>1</sup> To be published.