
Irish Standard
I.S. EN 62514:2010

# Multimedia gateway in home networks - Guidelines (IEC 62514:2010 (EQV))

# I.S. EN 62514:2010

*Incorporating amendments/corrigenda issued since publication:*

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN 62514

July 2010

ICS 33.160.60; 35.110; 35.200

English version

## Multimedia gateway in home networks - Guidelines
(IEC 62514:2010)

Passerelle multimédia dans les réseaux domestiques - Lignes directrices (CEI 62514:2010)

Leitfaden für Multimedia Gateway in Heimnetzwerken (IEC 62514:2010)

This European Standard was approved by CENELEC on 2010-07-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Ref. No. EN 62514:2010 E

## Foreword

The text of document 100/1672/FDIS, future edition 1 of IEC 62514, prepared by IEC TC 100, Audio, video and multimedia systems and equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62514 on 2010-07-01.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

| | | |
|---|---|---|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2011-04-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2013-07-01 |

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 62514:2010 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 62455 NOTE Harmonized as EN 62455.

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# Annex ZA
(normative)

## Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

| Publication | Year | Title | EN/HD | Year |
|---|---|---|---|---|
| IEC 62481 | Series | Digital living network alliance (DLNA) home networked device interoperability guidelines | EN 62481 | Series |
| IEC 62481-1 | 2007 | Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 1: Architecture and protocols | - | - |
| IEC 62481-2 | - | Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 2: DLNA media formats | - | - |
| ISO/IEC 14762 | 2009 | Information technology - Functional safety requirements for home and building electronic systems (HBES) | - | - |
| ISO/IEC 29341 | Series | Information technology - UPnP Device Architecture | - | - |
| ISO/IEC 29341-1 | - | Information technology - UPnP Device Architecture - Part 1: UPnP Device Architecture Version 1.0 | - | - |
| ISO/IEC 29341-3 | Series | Information technology - UPnP Device Architecture - Part 3: Audio Video Device Control Protocol | - | - |
| ISO/IEC 15045-1 | - | Information technology - Home electronic system (HES) gateway - Part 1: A residential gateway model for HES | - | - |
| ITU-T G.9960 | - | Next generation home networking transceivers | - | - |
| UPnP Forum | Series | Quality of Service:3 | - | - |
| RFC 2663 | - | IP Network Address Translator (NAT) Terminology and Considerations | - | - |
| RFC 3022 | - | Traditional IP Network Address Translator (Traditional NAT) | - | - |
| IEEE 802.16 | - | IEEE Standard for Local and metropolitan area networks – Part 16: Air Interface for Fixed Broadband Wireless Access Systems (WiMax) | - | - |

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# CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

# MULTIMEDIA GATEWAY IN HOME NETWORKS – GUIDELINES

## FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62514 has been prepared by technical area 9: Audio, video and multimedia applications for end-user network, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this standard is based on the following documents:

| FDIS | Report on voting |
|---|---|
| 100/1672/FDIS | 100/1705/RVD |

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

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

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

**IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.**

# INTRODUCTION

In a digital home, in order to meet the various requirements of digital living, all kinds of communication devices (computers, consumer-electrical products etc) are integrated into a home network. Such a network (comprising home information, entertainment, control services, etc.) thus forms a system of information exchange with outside networks.

A home network system is a Local Area Network (LAN) connecting such terminal devices as information devices, communication devices, entertainment devices, household appliances, meters of gas, water and electricity, health-care equipment, lighting and security systems, etc. to implement the network management and services and share the resources and services in the network.

The multimedia services and the management for devices mentioned above can be performed through a home multimedia gateway.