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Multimedia home network configuration - Basic reference model - Part 1: System model

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IEC 62608-1 has been prepared by subcommittee TA 18: Multimedia home systems and applications for end-user networks, of IEC technical committee TC 100: Audio, video and multimedia systems and equipment. It is an International Standard.

This second edition cancels and replaces the first edition published in 2014. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) addition of devices connected via wireless LAN;
b) addition of servers on the cloud.

The text of this International Standard is based on the following documents:

Draft	Report on voting
100/4200/CDV	100/4302/RVC

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

The language used for the development of this International Standard is English.

A list of all parts in the IEC 62608 series, published under the general title *Multimedia home network configuration – Basic reference model*, can be found on the IEC website.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION

Electronic power, as well as network connectivity, is necessary in order to use electronic devices at home. Some applications running on the devices do not work without an inside and outside network.

When a device connects to a home network, an appropriate network service must already be in place. Since network connections are a precondition of many applications, such as the applications in IEC 62481-1, IEC 62481-2 and IEC 6248-3, a digital living network alliance (DLNA) network management function is necessary.

Sometimes applications are asked to change the configuration of another device, gateway, and so on. Since it is too difficult to change the configuration of the device manually, an automatic configuration mechanism is needed for the home network. IEC 62514 defines the functions of a multimedia home gateway; this document complements the multimedia home gateway by establishing network connection automatically.

This document expands the scope of management to include devices connected via wireless LAN and servers on the cloud.

1 Scope

This part of IEC 62608 specifies the basic reference model to configure devices connected to a home network with a configuration framework for network applications running on such devices.

This document applies to devices that are cable or wireless LAN connected and switched on and that support IP protocol. The reference model covers inside and outside network connectivity.

This document specifies the system model and functions that each component should support.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 62608-2, *Multimedia home network configuration – Basic reference model – Part 2: Operational model*