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guidelines –
Part 2: Media format profiles**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DIGITAL LIVING NETWORK ALLIANCE (DLNA) HOME NETWORKED DEVICE INTEROPERABILITY GUIDELINES –

Part 2: Media Format Profiles

FOREWORD

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International Standard IEC 62481-2 has been prepared under technical area 8: Multimedia home systems and applications for end-user network, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

This third edition cancels and replaces the second edition published in 2013, and constitutes a technical revision.

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

- a) removal of optional media format profiles for Audio and AV content;
- b) addition of mandatory media format profiles for the CVP-2 Device Profile;
- c) includes updates to resolve interoperability issues.

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

CDV	Report on voting
100/2731/CDV	100/2881/RVC

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

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

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

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- withdrawn,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

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

INTRODUCTION

It is envisioned that in the home network environment, devices will be capable of exchanging content items that originate from different sources. Content items will typically come encoded in different formats. The term "format" designates the compression and encoding tools utilized to generate the binary instance of a content item, which will be eventually exchanged over the home network using streaming or file transfer protocols. Examples of formats include MPEG-2, MPEG-4, WMV and others for video; or MP3, AAC, WMA and others for audio.

Formats alone, however, include as part of their specifications, multiple parameters, features and tools which can be used in a myriad of combinations to generate content binaries. In this standard, the notion of a Media Format Profile is introduced to identify a particular suitable combination of format parameters which define a way for representing content binaries. A format like MPEG-2 for example, can have multiple Media Format Profiles depending on selections for the companion audio, the system-layer multiplexing specifications, allowed frame resolutions, allowed aspect ratios, allowed bitrates, etc.

The number of potential combinations for suitable Media Format Profiles increases rather quickly, as evidenced by the long profile lists observed in the different clauses and subclauses of this standard. Consequently, this standard introduces the notion of Mandatory Media Format Profiles, supported by all devices, as a means to provide baseline content interoperability in the home.

DIGITAL LIVING NETWORK ALLIANCE (DLNA) HOME NETWORKED DEVICE INTEROPERABILITY GUIDELINES –

Part 2: Media Format Profiles

1 Scope

This part of DLNA guidelines describes DLNA Media Format Profiles applicable to the DLNA Device Classes defined in IEC 62481-1-1:2017. Media Format Profiles are defined for each of the following Media Classes: Audio, Image, and AV. In addition, Profile ID values that identify media collections are also introduced.

The Profile ID is exposed in a server's Content Directory Service (CDS) to signal potential networked players or renderers the existence of a content item with particular coding and compression features defined precisely by the item's Profile ID.

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.

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⁴ Dolby® TrueHD is a trade name of a product supplied by Dolby Laboratories, Inc. This information is given for the convenience of users of this document and does not constitute an endorsement by IEC of the product named.

⁵ OpenCable is a trademark of a product supplied by Cable Television Laboratories, Inc. This information is given for the convenience of users of this document and does not constitute an endorsement by IEC of the product named.

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Can be obtained through the Windows Media 9 Series License Program

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