

# INTERNATIONAL STANDARD



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**Digital living network alliance (DLNA) home networked device interoperability  
guidelines –  
Part 1-3: Architecture and protocols – Cloud access**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DIGITAL LIVING NETWORK ALLIANCE (DLNA) HOME  
NETWORKED DEVICE INTEROPERABILITY GUIDELINES –****Part 1-3: Architecture and protocols – Cloud access**

## FOREWORD

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International Standard IEC 62481-1-3 has been prepared under technical area 8: Multimedia home systems and applications for end-user network IEC technical committee 100: Audio, video and multimedia systems and equipment.

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

CDV	Report on voting
100/2738/CDV	100/2886/CDV

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.

A list of all parts of IEC 62481 series, published under the general title *Digital Living Network Alliance (DLNA) home networked device interoperability guidelines*, can be found on the IEC website.

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- withdrawn,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.

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## INTRODUCTION

Consumers are acquiring, viewing, and managing an increasing amount of digital media (photos, music, and video) on devices in the consumer electronics (CE), mobile, and personal computer (PC) domains. As such, they want to conveniently enjoy the content, regardless of the source, across different devices and locations in the home. The digital home vision integrates the Internet, mobile, and broadcast networks through a seamless, interoperable network, which will provide a unique opportunity for manufacturers and consumers alike. In order to deliver on this vision, a common set of industry design guidelines is needed that allows vendors to participate in a growing marketplace, leading to more innovation, simplicity, and value for consumers. This document serves that purpose and provides vendors with the information needed to build interoperable networked platforms and devices for the digital home.

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

## Part 1-3: Architecture and protocols – Cloud access

### 1 Scope

This part of IEC 62481 specifies guidelines for accessing content in the cloud, that is, outside of the home by devices in the home.

These Guidelines focus on the discovery, association, and control of Apps capable of augmenting DLNA devices with the ability to consume content from sources outside the home. The basic support is realized with the UPnP ApplicationManagement Service.

### 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 62481-1-1:2017, *Digital living network alliance (DLNA) Guidelines – Part 1-1: Architecture and protocols*

IEC 62481-2:2017, *Digital living network alliance (DLNA) Guidelines – Part 2: Media format profiles*

IEC 62481-6-1:2017, *Digital living network alliance (DLNA) Guidelines – Part 6-1: HTML 5 RUI*

ISO/IEC 29341-3-10, *Information Technology – UPnP Device Architecture – Part 3-10: Audio Video Device Control Protocol – Audio Video Transport Service*

ISO/IEC 29341-3-11, *Information Technology – UPnP Device Architecture – Part 3-11: Audio Video Device Control Protocol – Connection Manager Service*

ISO/IEC 29341-20-12, *Information technology – UPnP Device Architecture – Part 20-12: Audio video device control protocol – Level 4 – Content directory service*

IETF RFC 3986, *Uniform Resource Identifier (URI): General Syntax*.  
<http://www.ietf.org/rfc/rfc3986.txt>

UPnP/AMS, *ApplicationManagement:1*, UPnP Forum  
[https://members.dlna.org/apps/org/workgroup/ils/download.php/30975/ApplicationManagement-v1&2\\_-\\_20140331\\_v0.75\[1\].zip](https://members.dlna.org/apps/org/workgroup/ils/download.php/30975/ApplicationManagement-v1&2_-_20140331_v0.75[1].zip)