



SLOVENSKI STANDARD

SIST EN 62481-2:2014

01-april-2014

Smernice za medobratovnost naprav, povezanih v domače omrežje po standardu za hišna digitalna omrežja (DLNA) - 2. del: Formati medijev po DLNA

Digital living network alliance (DLNA) home networked device interoperability guidelines -
- Part 2: DLNA media formats

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| 33.160.01 | Avdio, video in avdiovizualni sistemi na splošno | Audio, video and audiovisual systems in general |
| 35.100.05 | Večslojne uporabniške rešitve | Multilayer applications |
| 35.110 | Omreževanje | Networking |

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EUROPEAN STANDARD
NORME EUROPÉENNE
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English version

**Digital living network alliance (DLNA) home networked device
interoperability guidelines -
Part 2: DLNA media formats
(IEC 62481-2:2013)**

Lignes directrices pour l'interopérabilité
des dispositifs domestiques de la DLNA
(Digital living network alliance) -
Partie 2: Formats de média DLNA
(CEI 62481-2:2013)

Digital living network alliance (DLNA)
Interoperabilitäts-Richtlinien für Geräte im
Heimnetzwerk -
Teil 2: Medien-Formate
(IEC 62481-2:2013)

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Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 100/1993/CDV, future edition 2 of IEC 62481-2, prepared by technical area 9, "Audio, video and multimedia applications for end-user network", of IEC/TC 100, "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62481-2:2014.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-07-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-10-30

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Endorsement notice

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

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

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|--------------|-------------|
| IEC 62481-1 | 2013 | Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 1: Architecture and protocols | EN 62481-1 | 2014 |
| ETSI EN 301 192 | 2003 | Digital Video Broadcasting (DVB) - DVB specification for data broadcasting, V1.2.1 | - | - |
| ETSI EN 300 472 | 2003 | Digital Video Broadcasting (DVB) - Specification for conveying ITU-R system B teletext in DVB bitstreams | - | - |
| ETSI TS 102 366 | 2005 | Digital Audio Compression (AC-3, Enhanced AC-3) | - | - |
| ETSI TS 102 366 | 2008 | Digital Audio Compression (AC-3, Enhanced AC-3) | - | - |
| ETSI TS 101 154 | 2005 | Digital Video Broadcasting (DVB); Specification for the use of Video and Audio Coding in Broadcasting Applications based on the MPEG-2 Transport Stream | - | - |
| ETSI TS 101 154 | 2009 | Digital Video Broadcasting (DVB); Specification for the use of Video and Audio Coding in Broadcasting Applications based on the MPEG-2 Transport Stream | - | - |
| ETSI EN 300 468 | 2003 | Digital Video Broadcasting (DVB): Specification for Service Information (SI) in DVB systems | - | - |
| ETSI EN 300 468 | 2009 | Digital Video Broadcasting (DVB): Specification for Service Information (SI) in DVB systems | - | - |
| ETSI EN 301 775 | 2003 | Digital Video Broadcasting (DVB) - Specification for the carriage of Vertical Blanking Information (VBI) data in DVB bitstreams | - | - |
| ISO/IEC 10918-1 | 1994 | Information technology - Digital compression and coding of continuous-tone still images: Requirements and guidelines | - | - |
| ISO/IEC 11172-2 | 1993 | Information technology - Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s - Part 2: Video | - | - |
| ISO/IEC 11172-3 | 1993 | Information technology - Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s - Part 3: Audio | - | - |

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|-------------------------------------|--------------|---|--------------|-------------|
| ISO/IEC 13818-1 + corr. December | 2000 2002 | Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems | - | - |
| ISO/IEC 13818-2 | 2000 | Information technology - Generic coding of moving pictures and associated audio information: Video | - | - |
| ISO/IEC 13818-3 | 1998 | Information technology - Generic coding of moving pictures and associated audio information - Part 3: Audio | - | - |
| ISO/IEC 13818-7 | 2003 | Information technology - Generic coding of moving pictures and associated audio information - Part 7: Advanced Audio Coding (AAC) | - | - |
| + A1 | 2007 | | - | - |
| + A1 | 2004 | | - | - |
| ISO/IEC 13818-11 | 2004 | Information technology - Generic coding of moving pictures and associated audio information - Part 11: IPMP on MPEG-2 systems | - | - |
| ISO/IEC 14496-1 | 2001 | Information technology - Coding of audio-visual objects - Part1: Systems | - | - |
| ISO/IEC 14496-2 + A2 | 2001 2002 | Information technology - Coding of audio-visual objects - Part 2: Visual | - | - |
| ISO 14496-2 + A2 | 2004 2005 | Information technology - Coding of audio-visual objects - Part 2: Visual | - | - |
| ISO/IEC 14496-2 | 2004 | Information Technology - Coding of audio-visual objects - Part 2: Visual | - | - |
| + A1 | 2004 | | - | - |
| + A1 | 2004 | | - | - |
| + A3 | 2007 | | - | - |
| + A4 | 2008 | | - | - |
| ISO/IEC 14496-3 + A1 | 2001 2003 | Information technology - Coding of audio-visual objects - Part 3: Audio | - | - |
| ISO/IEC 14496-3 | 2005 | Information technology - Coding of audio-visual objects - Part 3: Audio | - | - |
| + A2 | 2006 | | - | - |
| + A2 | 2006 | | - | - |
| ISO/IEC 14496-4 + corr. August | 2004 2005 | Information technology - Coding of audio-visual objects - Part 4: Conformance testing | - | - |
| ISO/IEC 14496-10 | 2003 | Information technology - Coding of audio-visual objects - Part 10: Advanced Video Coding | - | - |
| ISO/IEC 14496-12 | 2004 | Information technology - Coding of audio-visual objects - Part 12:ISO base media file format - Hint track format for ALC/LCT and FLUTE transmission and multiple meta box support | - | - |
| ISO/IEC 14496-14 | 2003 | Information technology - Coding of Audio-Visual Objects - Part 14: MP4 file format | - | - |

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|---------------------------|-------------|--|--------------|-------------|
| ISO/IEC 14496-15 | 2004 | Information technology - Coding of Audio-Visual Objects - Part 15: AVC file format | - | - |
| ISO/IEC 15948 | 2004 | Information technology - Computer graphics and image processing - Portable Network Graphics (PNG) - Functional specification | - | - |
| ISO/IEC 23003-1 | 2007 | Information technology - MPEG audio technologies - Part 1: MPEG Surround | - | - |
| ISO/IEC 29341-3-12 | 2008 | Information technology - UPnP Device Architecture - Part 3-12: Audio Video Device Control Protocol - Content Directory Service | - | - |
| ETSI TS 102 114 | - | DTS Coherent Acoustics; Core and Extensions | - | - |
| ETSI TS 102 366 | - | Digital Audio Compression (AC-3, Enhanced AC-3) Standard, Version 1.1.1 | - | - |
| ETSI TS 102 563 | - | Transport of Advanced Audio Coding AAC) audio, Digital Audio Broadcasting (DAB), Version 1.1.1 | - | - |
| IETF RFC 1945 | - | Hypertext Transfer Protocol – HTTP/1.0, T. Berners-Lee, MIT/LCS, R. Fielding, UC Irvine, H. Frystyk | - | - |
| IETF RFC 2046 | - | Multipurpose Internet Mail Extensions (MIME) - Part 2: Media Types | - | - |
| IETF RFC 2616 | - | Hypertext Transfer Protocol HTTP/1.1. | - | - |
| IETF RFC 3551 | - | RTP Profile for Audio and Video Conferences with Minimal Control | - | - |
| IETF RFC 3555 | - | MIME Type Registration of RTP Payload Formats, S. Casner, Packet Design | - | - |
| ANSI/SCTE 43 | 2005 | Digital Video Systems Characteristics Standard for Cable Television | - | - |
| ANSI/SCTE 65 | 2008 | Service Information Delivered Out-Of-Band For Digital Cable Television | - | - |
| ANSI/SCTE-128 | 2010 | AVC Video Systems and Transport Constraints for Cable Television | - | - |
| ARIB ST B-1 | - | Digital Receiver for Digital Satellite Broadcasting Services using Communication Satellites | - | - |
| ARIB TR B-14 | - | Operational Guidelines For Digital Terrestrial Television Broadcasting | - | - |
| ARIB TR B-15 | - | Operational Guidelines For Digital Satellite Broadcasting | - | - |
| ARIB STD B-21 | - | Receiver for Digital Broadcasting | - | - |
| ARIB B 24 | - | Data Coding and Transmission Specification for Digital Broadcasting, Association of Radio Industries and Businesses | - | - |
| ARIB STD B-32 | - | Video Coding, Audio Coding and Multiplexing - Specifications for Digital Broadcasting | - | - |
| ASF | - | Advanced System Format (ASF) Specification | - | - |
| ATRAC3 plus specification | - | Licensing Program for DLNA, Sony | - | - |

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|-------------------------|-------------|---|--------------|-------------|
| ATSC Standard A/6 | - | Program and System Information Protocol for Terrestrial Broadcast and Cable (PSIP) | - | - |
| ATSC Standard A/52A | - | Digital Audio Compression (AC-3*) Rev A, Advanced Television Systems Committee | - | - |
| ATSC A/53B Annex B | - | ATSC Digital Television Standard - Part 1: Digital Television System | - | - |
| ATSC Standard A/53- | - | Digital Television Standard | - | - |
| ETSI TS 102 005 | - | Specification for the use of video and audio coding in DVB services delivered directly over IP, Digital Video Broadcasting (DVB), Version 1.2.1 | - | - |
| ATSC Standard A/53C | - | Digital Television Standard, Revision C with Amendment 1 | - | - |
| ETSI ES 201 812 | - | Multimedia Home Platform (MHP) specification 1.0.3 (DVB-MHP), V1.1.1, Digital Video Broadcasting (DVB), European Telecommunications Standard Institute | - | - |
| ETSI EN 301 775 | - | Specification for the carriage of Vertical Blanking Information (VBI) data in DVB bitstreams (DVB VBI data), European Telecommunications Standard Institute, V1.2.1, Digital Video Broadcasting (DVB) | - | - |
| ETSI EN 301 192 | - | DVB Specification for Data broadcasting (DVB-data broadcasting), V1.3.1, European Telecommunications Standard Institute | - | - |
| ETSI EN 300 743 | - | Subtitling systems (DVB Subtitles), V1.2.1, Digital Video Broadcasting (DVB), European Telecommunications Standard Institute | - | - |
| ETSI EN 300 468 | - | Specification for Service Information (SI) In DVB systems (SI), Digital Video Broadcasting (DVB), v1.10.1, European Telecommunications Standard Institute | - | - |
| ITU-R Rec BO 1516 | - | Digital multiprogramme television systems for use by satellite operating in the 11/12 GHz frequency range, System B, International Telecommunications Union | - | - |
| ITU-T Rec G.726 | - | General Aspects of Digital Transmission Systems, Terminal Equipment - 40, 32, 24, 16 kbit/s Adaptive Differential Pulse Code Modulation (ADPCM) | - | - |
| ITU-T Rec H.263 Annex X | - | Profiles and levels definition | - | - |
| ITU-T Rec H.263 | 2005 | Video coding for low bit rate communication | - | - |
| ISO/IEC 11172-1 | 1993 | Information technology - Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s - Part 1: Systems | - | - |
| ITU-R Rec BS.1196-11 | 2011 | Audio coding for digital terrestrial television broadcasting, Annex 2 (Dolby* AC-3 Audio), International Telecommunication Union | - | - |

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
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<http://www.highmat.com/license/specifications.asp>

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which can be obtained through the Windows Media 9 Series License Program
<http://wmlicense.smdisp.net/licenserequest/>

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3GPP TS 26.090, *Adaptive Multi-Rate (AMR) Speech Codec, Transcoding functions*, Release 6 Version 6.0.0, 2005-01-06

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<http://www.3gpp.org/ftp/Specs/html-info/26101.htm>

3GPP TS 26.140, *Multimedia Messaging Service (MMS); Media Formats and Codecs*, Release 6 Version 6.2.0, 2005-04-01

<http://www.3gpp.org/ftp/Specs/html-info/26140.htm>

3GPP TS 26.140, *Multimedia Messaging Service (MMS); Media Formats and Codecs*, Release 7

3GPP TS 26.234, *Transparent End-to-End Packet-Switched Streaming Service (PSS); Protocols and Codecs*, Release 6 Version 6.4.0, 2005-06-24

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3GPP TS 26.234, *Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs*, Release 7

3GPP TS 26.244, *3GPP file format (3GP)*, Release 7

3GPP TS 26.290, *Extended AMR Wideband codec; Transcoding functions*, Release 6 Version 6.3.0, 2005-06-24

<http://www.3gpp.org/ftp/Specs/html-info/26290.htm>

3GPP TS 26.346, *Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs*, Release 6

3GPP TS 26.346, *Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs*, Release 7

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INTERNATIONAL STANDARD



**Digital living network alliance (DLNA) home networked device interoperability
guidelines –
Part 2: DLNA media formats**

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