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Hemelektronik – Riktlinjer enligt Digital living network alliance (DLNA) för interoperabilitet för utrustning i hemnät – Del 3: Länkskydd

*Digital living network alliance (DLNA) home networked device interoperability guidelines –
Part 3: Link protection*

Som svensk standard gäller europastandarden EN 62481-3:2014. Den svenska standarden innehåller den officiella engelska språkversionen av EN 62481-3:2014.

Nationellt förord

Europastandarden EN 62481-3:2014

består av:

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- **IEC 62481-3, Second edition, 2013 - Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 3: Link protection**

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English version

**Digital living network alliance (DLNA) home networked device
interoperability guidelines -
Part 3: Link protection
(IEC 62481-3:2013)**

Lignes directrices pour l'interopérabilité
des dispositifs domestiques DLNA (Digital
Living Network Alliance) -
Partie 3: Protection des liaisons
(CEI 62481-3:2013)

Digital living network alliance (DLNA)
Interoperabilitäts-Richtlinien für Geräte im
Heimnetzwerk -
Teil 3: Verbindungsschutz
(IEC 62481-3:2013)

This European Standard was approved by CENELEC on 2013-11-27. 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 CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

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

Foreword

The text of document 100/1994/CDV, future edition 2 of IEC 62481-3, 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 62481-3:2014.

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) 2014-09-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-11-27

This document supersedes EN 62481-3:2011.

EN 62481-3:2014 includes the following significant technical changes with respect to EN 62481-3:2011:

- a) includes variable play (trick mode) support;
- b) includes updates to resolve interoperability issues.

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Endorsement notice

The text of the International Standard IEC 62481-3:2013 was approved by CENELEC as a European Standard without any modification.

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	2012
IEC 62481-2	2013	Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 2: DLNA media formats	EN 62481-2	2014
ISO/IEC 13818-1 + corr. December	2000 2002	Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems	-	-
ISO/IEC 14496-2	2004	Information Technology – Coding of audio-visual objects - Part 2: Visual	-	-
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	-	-
IETF RFC 1191	1990	Path MTU Discovery	-	-
IETF RFC 2616	-	Hypertext Transfer Protocol HTTP/1.1.	-	-
IETF RFC 3551	-	RTP Profile for Audio and Video Conferences with Minimal Control	-	-
IETF RFC 3550	-	A Transport Protocol for Real-Time Applications	-	-
IETF RFC 1738	1994	Uniform Resource Locators (URL)	-	-
DTCP Volume 1	2005	Digital transmission content protection specification	-	-
DTCP Volume 1 Supplement E	2005	Mapping DCTP to IP	-	-

DTCP Audio Compliance Rules EXHIBIT B-2	2002	Compliance rules for licensed products that receive or transmit commercial audio works	-	-
IEEE 802.1Q	-	IEEE Standard for Local and Metropolitan Area Networks - Virtual Bridged Local Area Networks	-	-
IEEE 802.11	-	IEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications	-	-
RTP	-	RTP Payload Format for Windows Media Audio and Video, Microsoft Corporation	-	-
DTCP	2005	DTCP Adopter Agreement, Digital Transmission Protection License Agreement	-	-
WMDRM-ND		Windows Media DRM for Network Devices, Windows Media Technologies	-	-

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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 achieve this interoperability, 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 standard serves that purpose and provides vendors with the information needed to build interoperable networked platforms and devices for the digital home.

This standard is organized to align with the overall structure of IEC 62481-1 and IEC 62481-2.

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

Part 3: Link protection

1 Scope

This part of IEC 62481 specifies the DLNA link protection guidelines, which are an extension of the DLNA guidelines. DLNA link protection is defined as the protection of a content stream between two devices on a DLNA network from illegitimate observation or interception using the protocols defined within this part of IEC 62481.

Content protection is an important mechanism for ensuring that commercial content is protected from piracy and illegitimate redistribution. Link Protection is a technique that enables distribution of protected commercial content on a home network, thus resulting in greater consumer flexibility while still preserving the rights of copyright holders and content providers.

The guidelines in this part of IEC 62481 reference existing technologies for Link Protection and provide mechanisms for interoperability between different implementations as well as integration with the DLNA architecture.

2 Normative references

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.

IEC 62481-1:2013, *Digital Living Network Alliance (DLNA) home networked device interoperability guidelines – Part 1: Architecture and protocols*

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ISO/IEC 14496-2:2004, *Information technology – Coding of Audio-Visual Objects – Part 2: Visual*
Amendment 1:2004, *Error resilient simple scalable profile*

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