

BS EN 62481-4:2014



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Digital living network alliance (DLNA) home networked device interoperability guidelines

Part 4: DRM interoperability solutions (TA9)

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The UK participation in its preparation was entrusted to Technical Committee EPL/100, Audio, video and multimedia systems and equipment.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

Digital living network alliance (DLNA) home networked device
interoperability guidelines - Part 4: DRM interoperability solutions
(TA9)
(IEC 62481-4:2014)

Directives d'Interopérabilité des dispositifs de réseau
domestique DLNA (DIGITAL LIVING NETWORK
ALLIANCE) - Partie 4: Solutions d'interopérabilité de
gestion des droits numériques
(CEI 62481-4:2014)

Digital living network alliance (DLNA) Interoperabilitäts-
Richtlinien für Geräte im Heimnetzwerk - Teil 4: Digitale
Rechte Management (DRM) Interoperabilitätslösungen
(IEC 62481-4:2014)

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Comité Européen de Normalisation Electrotechnique
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Foreword

The text of document 100/2250/FDIS, future edition 1 of IEC 62481-4, 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 62481-4:2014.

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-04-10

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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 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here:

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<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
IEC 62481-2	2013	Digital living network alliance (DLNA) home networked device interoperability guidelines -- Part 2: DLNA media formats	EN 62481-2	2014
IEC 62481-3	2013	Digital living network alliance (DLNA) home networked device interoperability guidelines -- Part 3: Link protection	EN 62481-3	2014
ISO/IEC 29341-3-12 -		Information technology -- UPnP Device Architecture -- Part 3-12: Audio Video Device Control Protocol - Content Directory Service	-	-
DTCP Adopter Agreement	-	Digital Transmission Content Protection License Agreement	-	-
DTCP Volume 1 Supplement E	-	Mapping DCTP to IP	-	-
DTCP Volume 1	-	Digital transmission content protection specification	-	-

CONTENTS

INTRODUCTION.....	5
1 Scope.....	6
2 Normative references	6
3 Terms, definitions and abbreviated terms	7
3.1 Terms and definitions	7
3.2 Abbreviated terms	7
3.3 Conventions	7
4 Networking architecture, device models and guideline conventions	7
4.1 DLNA home networking architecture.....	7
4.2 DLNA device model.....	7
4.3 Guideline terminology and conventions	8
5 Guideline requirements.....	8
5.1 General	8
5.2 Common DRM interoperability guidelines	8
5.2.1 General	8
5.2.2 Media management – MM/CP additional MM flags-param (flags parameter).....	8
5.2.3 DRM interoperability technology guidelines requirements – DTCP-IP DIS support	9
5.3 DTCP-IP DIS guidelines	9
5.3.1 General	9
5.3.2 Media management	9
5.3.3 Media Transport	11
5.3.4 DTCP profiling guidelines	14
5.3.5 DTCP-IP DIS requirements	15
Annex A (informative) DTCP-IP DIS behaviour explanations	19
Figure A.1 – Overview of DTCP-IP DIS Behavior	19
Figure A.2 – Example of Download Copy sequence	20
Figure A.3 – Example of Download Move sequence.....	21
Figure A.4 – Example of Upload Copy sequence.....	22
Figure A.5 – Example of Upload Move sequence	24

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 cater for this need, 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 International Standard 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 4: DRM interoperability solutions

1 Scope

This part of IEC 62481 specifies DLNA guidelines for DRM interoperability.

The set of guidelines in this part of IEC 62481 are based on DLNA DRM Interoperability Solutions (DIS), which are defined as methods to enable the secure transfer and use of protected commercial content among different implementations on network media devices. This content could be protected by different content protection technologies. In this standard they are referred to as DRMs.

The guidelines are not intended to replace or disable other interoperability mechanisms that could already be in place, e.g. DLNA Link Protection guidelines stated in IEC 62481-3 or mechanisms provided by underlying DRMs.

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*

IEC 62481-2:2013, *Digital Living Network Alliance (DLNA) home networked device interoperability guidelines – Part 2: DLNA media formats*

IEC 62481-3:2013, *Digital Living Network Alliance (DLNA) home networked device interoperability guidelines – Part 3: Link protection*

ISO/IEC 29341-3-12, *Information technology – UPnP Device Architecture – Part 3-12: Audio Video Device Control Protocol – Content Directory Service*

DTCP Volume 1 (informational version), *Digital Transmission Content Protection Specification Volume 1*, Revision 1.51: October 1, 2007
http://www.dtcp.com/data/info/20071001/DTCP_V1_1p51.pdf

DTCP Volume 1 Supplement E (Informational Version), *Mapping DTCP to IP*, Revision 1.2: June 15, 2007
http://www.dtcp.com/data/info/20070615/DTCP_V1SE_1p2.pdf

DTCP Adopter Agreement, *Digital Transmission Content Protection License Agreement, DTLA*, June 30, 2007
<http://www.dtcp.com/>

3 Terms, definitions and abbreviated terms

For the purposes of this document, the terms and definitions, symbols and abbreviations given in IEC 62481-1:2013, as well as the following apply.

3.1 Terms and definitions

3.1.1

copy

propagating content from a source device to a destination device such that the source device maintains its original version of this content

3.1.2

move

propagating content from a source device to a destination device such that the source device no longer maintains a usable copy of this content

3.2 Abbreviated terms

3.2.1

DRM Interoperability System**DIS**

a means for content to be protected by DRM A on one device to be transformed to the same content protected by DRM B on another device

3.2.2

Digital Rights Management**DRM**

system for protecting the copyrights of electronic digital media

3.2.3

Digital Transmission Content Protection over Internet Protocol Digital Rights Management Interoperability System**DTCP-IP DIS**

DIS implemented according to the DTCP-IP specification

3.3 Conventions

In IEC 62481-1:2013 and this standard, a number of terms, conditions, mechanisms, sequences, parameters, events, states, or similar terms are printed with the first letter of each word in uppercase and the rest lowercase (e.g., Move). Any lowercase uses of these words have the normal technical English meanings.

4 Networking architecture, device models and guideline conventions

4.1 DLNA home networking architecture

See IEC 62481-1:2013, Clause 4, for a full description of the DLNA home networking architecture.

4.2 DLNA device model

See IEC 62481-1:2013, Clause 5, for a full description of the DLNA device model. This standard extends the existing DLNA Device Classes and Device Capabilities to include protected content used for the following System Usages:

- Upload System Usage;
- Download System Usage;