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Irish Standard  
I.S. EN 62379-5-1:2014

# Common control interface for networked digital audio and video products - Part 5-1: Transmission over networks - General

**I.S. EN 62379-5-1:2014**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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EUROPEAN STANDARD

**EN 62379-5-1**

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October 2014

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English Version

**Common control interface for networked digital audio and video products - Part 5-1: Transmission over networks - General  
(IEC 62379-5-1:2014)**

Interface de commande commune pour produits audio et vidéo numériques connectés en réseau - Partie 5-1: Transmission sur des réseaux - Généralités  
(CEI 62379-5-1:2014)

Gemeinsame Steuerschnittstelle für netzwerkbetriebene digitale Audio- und Videogeräte - Teil 5-1: Übertragung über Netzwerke - Allgemeines  
(IEC 62379-5-1:2014)

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## Foreword

The text of document 100/2107/CDV, future edition 1 of IEC 62379-5-1, prepared by technical area 4 "Digital system interfaces and protocols", 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 62379-5-1:2014.

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) 2015-05-13
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-08-13

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IEC 62379	NOTE	Harmonized in EN 62379 series.
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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62379-1	2007	Common control interface for networked digital audio and video products - Part 1: General	EN 62379-1	2007
IEC 62379-5-2	2014	Common control interface for networked digital audio and video products - Part 5-2: Transmission over networks - Signalling	EN 62379-5-2	2014

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**IEC 62379-5-1**

Edition 1.0 2014-07

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Common control interface for networked digital audio and video products –  
Part 5-1: Transmission over networks – General**

**Interface de commande commune pour produits audio et vidéo numériques  
connectés en réseau –  
Partie 5-1: Transmission sur des réseaux – Généralités**





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**IEC 62379-5-1**

Edition 1.0 2014-07

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Common control interface for networked digital audio and video products –  
Part 5-1: Transmission over networks – General**

**Interface de commande commune pour produits audio et vidéo numériques  
connectés en réseau –  
Partie 5-1: Transmission sur des réseaux – Généralités**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**COMMON CONTROL INTERFACE FOR NETWORKED  
DIGITAL AUDIO AND VIDEO PRODUCTS –**
**Part 5-1: Transmission over networks –  
General**

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International Standard IEC 62379-5-1 has been prepared by technical area 4: Digital system interfaces and protocol of IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this standard is based on the following documents:

CDV	Report on voting
100/2107/CDV	100/2304/RVC

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

A list of all parts in the IEC 62379 series, published under the general title *Common control interface for networked digital audio and video products*, can be found on the IEC website.

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

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

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

## INTRODUCTION

### **Structure of the family of standards**

IEC 62379 specifies the common control Interface, a protocol for managing networked audiovisual equipment. The following parts exist or are planned:

- 1 General
- 2 Audio
- 3 Video
- 4 Data
- 5 Transmission over networks
- 6 Packet transfer service
- 7 Measurement

IEC 62379-1:2007, specifies aspects which are common to all equipment, and it includes an introduction to the common control interface.

IEC 62379-2:2008, IEC 62379-3 (under consideration) and IEC 62379-4 (under consideration) specify control of internal functions specific to equipment carrying particular types of live media. IEC 62379-4 refers to time-critical data such as commands to automation equipment, but not to packet data such as the control messages themselves.

IEC 62379-5 specifies control of transmission of these media over each individual network technology. It includes network specific management interfaces along with network specific control elements that integrate into the control framework.

IEC 62379-5-1, (this standard) specifies management of aspects which are common to all network technologies.

IEC 62379-5-2 specifies protocols which can be used between networking equipment to enable the setting up of calls which are routed across different networking technologies.

IEC 62379-5-3, onwards, specify management of aspects which are particular to individual networking technologies.

IEC 62379-6, specifies carriage of control and status messages and non-audiovisual data over transports that do not support audio and video, such as RS232 serial links, with (as for IEC 62379-5) a separate subpart for each technology.

IEC 62379-7 specifies aspects that are specific to the measurement of the service experienced by audio and video streams and in particular to the requirements of EBU ECN-IPM Measurements Group.

# COMMON CONTROL INTERFACE FOR NETWORKED DIGITAL AUDIO AND VIDEO PRODUCTS –

## Part 5-1: Transmission over networks – General

### 1 Scope

This part of IEC 62379 specifies aspects of the common control interface that are common to all network technologies, including setting up and tearing down of sessions and the service provided by the network.

### 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 62379-1:2007, *Common control interface for networked digital audio and video products – Part 1: General*

IEC 62379-5-2:2014, *Common control interface for networked digital audio and video products – Part 5-2: Transmission over networks – Signalling*

### 3 Terms, definitions and abbreviations

#### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62379-1 and IEC 62379-5-2, as well as the following apply.

##### 3.1.1

##### **media port**

source or destination of media data in an interface unit

Note 1 to entry: A media port is either a physical port (e.g. an external audio or video connector on the unit) or a logical port (e.g. an internal connection to another part of the unit).

##### 3.1.2

##### **switch**

network element which routes media data and other messages between links

#### 3.2 Abbreviations

TCP          Transmission Control Protocol <sup>a</sup>

UDP          User Datagram Protocol <sup>b</sup>

MIB          Management Information Base

<sup>a</sup>          See RFC 793.

<sup>b</sup>          See RFC 768.

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