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Universal serial bus interfaces for data and power - Part 1-7: Common components - USB Audio 3.0 device class definition data formats

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This standard includes the English version of the European Standard.

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Universal serial bus interfaces for data and power - Part 1-7:  
Common components - USB Audio 3.0 device class definition  
data formats  
(IEC 62680-1-7:2019)

Interfaces de bus universel en série pour les données et  
l'alimentation électrique - Partie 1-7: Composants communs  
- Définition de classes de dispositifs USB Audio 3.0 pour  
formats de données  
(IEC 62680-1-7:2019)

Schnittstellen des Universellen Seriellen Busses für Daten  
und Energie - Teil 1-7: Gemeinsame Komponenten - USB  
Audio 3.0 Geräteklassendefinition Datenformate  
(IEC 62680-1-7:2019)

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**EN IEC 62680-1-7:2019 (E)****European foreword**

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Edition 1.0 2019-09

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# NORME INTERNATIONALE



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Part 1-7: Common components – USB Audio 3.0 device class definition data  
formats**

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électrique –  
Partie 1-7: Composants communs – Définition de classes de dispositifs USB  
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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland  
Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

USB Implementers Forum, Inc.  
3855 S.W. 153rd Drive  
Beaverton, OR 97003  
United States of America  
Tel: +1 503-619-0426  
[admin@usb.org](mailto:admin@usb.org)  
[www.usb.org](http://www.usb.org)

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

CDV	Report on voting
100/3159/CDV	100/3229/RVC

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.

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This standard is the USB-IF publication USB Device Class Definition for Audio Data Formats Release 3.0.

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# UNIVERSAL SERIAL BUS DEVICE CLASS DEFINITION FOR AUDIO DATA FORMATS

**Release 3.0**  
**September 22, 2016**

## SCOPE OF THIS RELEASE

This document is the Release 3.0 of this device class definition.

## CONTRIBUTORS

Joe Scanlon	Advanced Micro Devices
Rhoads Hollowell	Apple Inc.
Girault Jones	Apple Inc.
Matthew X. Mora	Apple Inc.
Tzung-Dar Tsai	C-Media Electronics, Inc.
Brad Lambert	Cirrus Logic, Inc.
Dan Bogard	Conexant Systems, Inc.
Pete Burgers	DisplayLink (UK), Ltd.
David Roh	Dolby Laboratories, Inc.
Leng Ooi	Google, Inc.
Pierre-Louis Bossart	Intel Corporation
David Hines	Intel Corporation
Abdul Rahman Ismail (Co-Chair)	Intel Corporation
Devon Worrell	Intel Corporation
Chandrashekhar Rao	Logitech, Inc.
Terry Moore	MCCI Corporation
Alex Lin	MediaTek, Inc.
Bala Sivakumar	Microsoft Corporation
Geert Knapen (Co-Chair & Editor)	NXP Semiconductors <b>PL Mobile Audio</b> 411 E. Plumeria drive San Jose, CA 95134, USA E-mail: <a href="mailto:geert.knapen@nxp.com">geert.knapen@nxp.com</a>
James Goel	Qualcomm, Inc.
Andre Schevciv	Qualcomm, Inc.
Jin-Sheng Wang	Qualcomm, Inc.
Morten Christiansen	Synopsys

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2.0	May. 31, 06	Frmts20 final.pdf	Release 2.0
3.0	Sep. 22, 16	Frmts30.pdf	Release 3.0

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## 1 INTRODUCTION

The intention of this document is to describe in detail all the Audio Data Formats that are supported by the Audio Device Class. This document is considered an integral part of *the Audio Device Class Specification*, although subsequent revisions of this document are independent of the revision evolution of the main *USB Audio Specification*. This is to easily accommodate the addition of new Audio Data Formats without impeding the core *USB Audio Specification*.

### 1.1 RELATED DOCUMENTS

- *Universal Serial Bus Specification*, Revision 2.0 (referred to in this document as the *USB Specification*). In particular, see Chapter 5, “USB Data Flow Model” and Chapter 9, “USB Device Framework.”
- Universal Serial Bus Device Class Definition for Audio Devices (referred to in this document as USB Audio Device Class).
- Universal Serial Bus Device Class Definition for Terminal Types (referred to in this document as USB Audio Terminal Types).
- ANSI S1.11-1986 standard.
- MPEG-1 standard ISO/IEC 111172-3 1993. (available from <http://www.iso.ch> )
- MPEG-2 standard ISO/IEC 13818-3 Feb. 20, 1997. (available from <http://www.iso.ch>)
- Digital Audio Compression Standard (AC-3), ATSC A/52A Aug. 20, 2001. (available from <http://www.atsc.org> )
- Windows Media Audio (WMA) specification. (available from <http://www.microsoft.com>)
- ANSI/IEEE-754 floating-point standard.
- ISO/IEC 60958 International Standard: *Digital Audio Interface and Annexes*.
- ISO/IEC 61937 standard.
- ITU G.711 standard.
- ETSI Specification TS 102 114, “DTS Coherent Acoustics; Core and Extensions”. (Available from [http://webapp.etsi.org/action%5CPU/20020827/ts\\_102114v010101p.pdf](http://webapp.etsi.org/action%5CPU/20020827/ts_102114v010101p.pdf))

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