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Universal serial bus interfaces for data and power—Part 1-6: Common components – USB Audio 3.0 device class definition basic functions (standards.iteh.ai)

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Partie 1-6: Composants communs – Definition de classes de dispositifs USB Audio 3.0 pour fonctions de base





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

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1 INTRODUCTION

1.1 SCOPE

The USB Audio Device Class Definition for Basic Audio Functions applies to all USB Audio Functions that are based on the Universal Serial Bus Device Class Definition for Audio Devices Release 3.0. It defines baseline audio functionality for all ADC 3.0 compliant Hosts and Devices.

1.2 PURPOSE

The purpose of this specification is to create a higher level of interoperability among Hosts and Audio Devices. By establishing a set of essential audio features, users can expect a consistent experience, Device manufacturers have a solid template to follow, and Host drivers may be simplified.

1.3 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 3.1 Specification, Revision 1.0 (referred to in this document as the USB 3.1 Specification). This document covers details specific to SuperSpeed and SuperSpeed+ devices.
- Universal Serial Bus Device Class Definition for Audio Devices Release 3.0 (referred to in this document as Audio 3.0 Specification or ADC 3.0 in short). DARD PREVIEW
- Universal Serial Bus Device Class Definition for Audio Data Formats Release 3.0 (referred to in this document as Audio 3.0 Data Formats).
- Universal Serial Bus Device Class Definition for Terminal Types Release 3.0 (referred to in this document as <u>IEC 62680-1-6:2019</u>

 Audio 3.0 Terminal Types). https://standards.iteh.ai/catalog/standards/sist/02e61383-980a-4df2-8694-
- Device Class Definition for Human Interface Devices (HID) Version 1.11. June 27, 2001.
- *HID Usage Tables* Version 1.12. October 28, 2004. Please visit www.usb.org for the latest additions to the HID Usage Tables.

1.4 TERMS AND ABBREVIATIONS

This section defines terms used throughout this document. For additional terms that pertain to the Universal Serial Bus, see the "Terms and Abbreviations" section in the *USB Specification* and for terms that pertain to the Audio Device Class, see the "Terms and Abbreviations" section in the *Audio 3.0 Specification*.

Note: the terms "Audio Device" and "Audio Function" are used interchangeably in this document. Since audio functionality always resides at the interface level, the term Audio Device is strictly speaking omly valid for devices that contain audio functionality only.

BADD: Acronym for Basic Audio Device Definition.

BAIF: Acronym for Basic Audio Input Function.

BAIFT: Acronym for Basic Audio Input Function Topology.

BAIOF: Acronym for Basic Audio Input/Output Function.

BAIOFT: Acronym for Basic Audio Input/Output Function Topology.

BAOF: Acronym for Basic Audio Output Function.

BAOFT: Acronym for Basic Audio Output Function Topology.

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