
**Information technology — Coding-
independent code points —**

**Part 3:
Audio**

*Technologies de l'information — Points de code indépendants du
codage —
Partie 3: Audio*

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ISO/IEC 23091-3:2018](https://standards.iteh.ai/catalog/standards/iso/9d2bcdab-0ced-42aa-933f-081dabb46e58/iso-iec-23091-3-2018)

<https://standards.iteh.ai/catalog/standards/iso/9d2bcdab-0ced-42aa-933f-081dabb46e58/iso-iec-23091-3-2018>



iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO/IEC 23091-3:2018

<https://standards.iteh.ai/catalog/standards/iso/9d2bcdab-0ced-42aa-933f-081dabb46e58/iso-iec-23091-3-2018>



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Code points and usage	2
4.1 General.....	2
4.2 Applicability.....	3
5 Principles for definition and referencing of code points	3
5.1 Code point encoding and defaults.....	3
5.2 Externally defined values.....	3
5.3 Reference format.....	3
5.4 Uniform Resource Name format.....	4
6 Audio code point definitions	4
6.1 Loudspeaker index and speaker channel position.....	4
6.2 Loudspeaker layout index and channel configuration.....	7
6.3 Loudspeaker positioning.....	12
6.4 Program loudness level.....	17
6.5 Anchor loudness level.....	17
6.6 Range of loudness.....	18
6.7 Top of loudness range.....	18
6.8 Maximum of momentary loudness level.....	18
6.9 Maximum of short-term loudness level.....	18
6.10 Short-term loudness level.....	18
6.11 Peak level.....	18
6.12 Compressor characteristic.....	19
Bibliography	22

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/IEC JTC1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

Together with ISO/IEC 23091-1 and ISO/IEC 23091-2¹⁾, this first edition of ISO/IEC 23091-3 cancels and replaces ISO/IEC 23001-8:2016, which has been technically revised.

A list of all parts in the ISO/IEC 23091 series can be found on the ISO website.

1) Under preparation. Stage at time of publication: ISO/IEC DIS 23091-2:2017.

Introduction

There is a need to identify some characteristics of media that are logically independent of the compression format (for example, aspects that relate to the sourcing or presentation or the role of the media component). These media characteristics have typically been documented by fields that take an encoded value or item selected from an enumerated list, herein called code points.

Prior to the existence of the parts of this standard, the specification of these fields was copied into every document that needed them, sometimes with new values being added.

This past practice has raised a number of issues, including the following.

- a) A lack of a formal way to avoid conflicting assignments being made.
- b) Having additional values defined in later documents that may be practically used with older compression formats, without clear formal applicability of these new values.
- c) Any update or correction of code point semantics can incur significant effort to update all places in which the code point is specified, instead of enabling a single central specification to apply.
- d) The choice of reference for other specifications (such as container or delivery formats) not being obvious; wherein a formal reference to a compression format specification appears to favour that one format over others, and also appears to preclude definitions defined in other compression format specifications.
- e) Burdensome maintenance needs to ensure that a reference to material defined in a compression format specification is maintained appropriately over different revisions of the referenced format specification, as the content of a compression format specification may change over time and is ordinarily not intended as a point of reference for defining such code points.

The parts of this series provide a central definition of such code points to address these issues. In this document, code points that are used for audio are specified. ISO/IEC 23091-1 specifies a Uniform Resource Name (URN) format that can be used with the code points defined in all parts of the series, including this one.

<https://standards.iteh.ai/catalog/standards/iso/9d2bcdab-0ced-42aa-933f-081dabb46e58/iso-iec-23091-3-2018>