

---

---

**Information technology — MPEG video  
technologies —**

**Part 5:  
Reconfigurable media coding  
conformance and reference software**

**AMENDMENT 2: Reference software for  
HEVC-related VTL extensions**

*Technologies de l'information — Technologies vidéo MPEG —*

*Partie 5: Conformité du codage média reconfigurable et logiciels de  
référence*

*AMENDEMENT 2: Logiciel de référence pour les extensions VTL liées  
au codage HEVC*



**COPYRIGHT PROTECTED DOCUMENT**

© ISO/IEC 2017, Published in Switzerland

All rights reserved. Unless otherwise specified, 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  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

## 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](http://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](http://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 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](http://www.iso.org/iso/foreword.html).

Amendment 2 to ISO/IEC 23002-5:2013 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

IECNORM.COM : Click to view the full PDF of ISO/IEC 23002-5:2013/Amd 2:2017

# Information technology — MPEG video technologies —

## Part 5:

## Reconfigurable media coding conformance and reference software

### AMENDMENT 2: Reference software for HEVC-related VTL extensions

*Page 1, Scope*

Replace the following:

Currently the following standards/profiles are included in ISO/IEC 23002-4 and in this part of ISO/IEC 23002 as reference software

- ISO/IEC 14496-2 Simple Profile,
- ISO/IEC 14496-10 Constrained Baseline Profile,
- ISO/IEC 14496-10 Progressive High Profile.

with the following:

Currently the following standards/profiles are supported in ISO/IEC 23002-4 and in this document as reference software

- ISO/IEC 14496-2 Simple Profile,
- ISO/IEC 14496-10 Constrained Baseline Profile,
- ISO/IEC 14496-10 Progressive High Profile,
- ISO/IEC 23008-2 Main Profile.

NOTE The reference software supports the decoding of bitstreams that conform to the Main Profile of ISO/IEC 23008-2, but does not support display-related features indicated in supplemental enhancement information (the support for which is a display capability that is outside the scope of ISO/IEC 23008-2).

*Page 14, Clause 9*

Replace the electronic attachment as found attached; which includes the prior reference software and adds a new “mpegh” subdirectory. The “mpegh” directory contains functional units and networks allowing decoding of the ISO/IEC 23008-2 Main Profile.

Add the following informative annex that describes how to compile the software to convert it into an executable form.

## **Annex A**

(informative)

### **Information on compiling the RMC reference software**

This annex provides information on how to compile the reference software of ISO/IEC 23002-5.

Like most software written in other programming languages, such as, for example, C, C++, Java, Verilog, or VHDL, the reference software written in RVC-CAL according to ISO/IEC 23001-4 first needs to be compiled in order to be executed on a processing platform. Since, in general, current processing platforms do not support RVC-CAL with platform-specific compilers, an RVC-CAL program needs to be cross-compiled into another language that is supported on the processing platform that is chosen as the program execution environment.

Any ISO/IEC 23001-4 RVC-CAL compliant cross compiler could be used for this purpose.

For instance, the Orcc cross compiler available at: <http://orcc.sourceforge.net> supports, for C and some other programming languages, the cross compilation of the reference software provided with this document.