
**Information technology — Multimedia
content description interface —**

**Part 7:
Conformance testing**

**AMENDMENT 2: Fast access extensions
conformance**

iTeh STANDARD PREVIEW

(standards.iteh.ai)

*Technologies de l'information — Description de l'interface du contenu
multimédia —*

ISO/IEC 15938-7:2003/Amd 2:2007

<https://standards.iteh.ai/en/standards/iso-iec-15938-7-2003-amd-2-2007>

Partie 7: Essais de conformité

c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007

AMENDEMENT 2: Conformité des extensions d'accès rapide

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO/IEC 15938-7:2003/Amd 2:2007](https://standards.iteh.ai/catalog/standards/sist/64dd48f0-81a5-40da-a136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007)

<https://standards.iteh.ai/catalog/standards/sist/64dd48f0-81a5-40da-a136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007>



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2007

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

Amendment 2 to ISO/IEC 15938-7:2003 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

(standards.iteh.ai)

[ISO/IEC 15938-7:2003/Amd 2:2007](https://standards.iteh.ai/catalog/standards/sist/64dd48f0-81a5-40da-a136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007)

<https://standards.iteh.ai/catalog/standards/sist/64dd48f0-81a5-40da-a136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO/IEC 15938-7:2003/Amd 2:2007](https://standards.iteh.ai/catalog/standards/sist/64dd48f0-81a5-40da-a136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007)

<https://standards.iteh.ai/catalog/standards/sist/64dd48f0-81a5-40da-a136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007>

Information technology — Multimedia content description interface —

Part 7: Conformance testing

AMENDMENT 2: Fast access extensions conformance

Add the following subclause:

4.2.3 Conformance testing of random access terminals

The conformance testing involves the comparison of the result of processing (searching) an index access unit stream and search criteria with the test terminal, against the conformance pass/fail criteria associated with the stream. Pass/Fail criteria has been selected as the conformance test, rather than comparison with reference terminal, as the random access processing is not an interoperability point. As such different implementations may express the same result quite differently. The pass/fail criteria specifies what information shall and shall not be returned as the result of a searching process, and not the form that the result shall take. Figure Amd2.1 shows an overview of conformance testing of ISO/IEC 15938 terminals only composed of a systems random access decoder. Figure Amd2.2 shows an overview of conformance testing of ISO/IEC 15938 terminals composed of random access decoder, systems decoder and a validating parser. The conformance testing of the terminal checks two things:

- Does the test terminal provide the same results set for the given search criteria as the conformance pass criteria for the index stream?
- Does the test terminal provide the same results for the reconstructed XML document representation as the reference terminal?

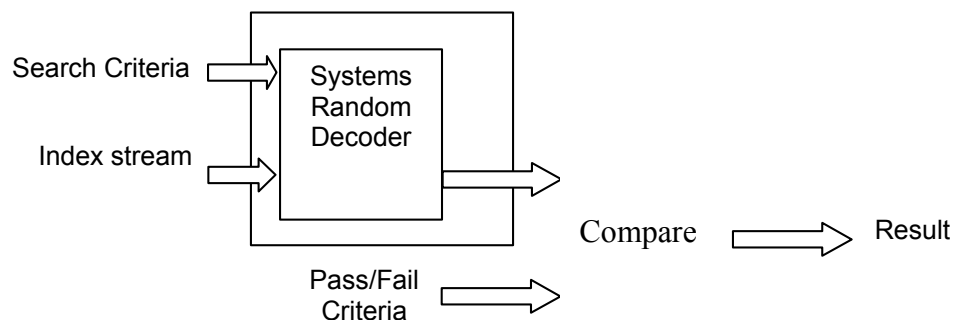


Figure Amd2.1 — Overview of conformance testing of random access terminal

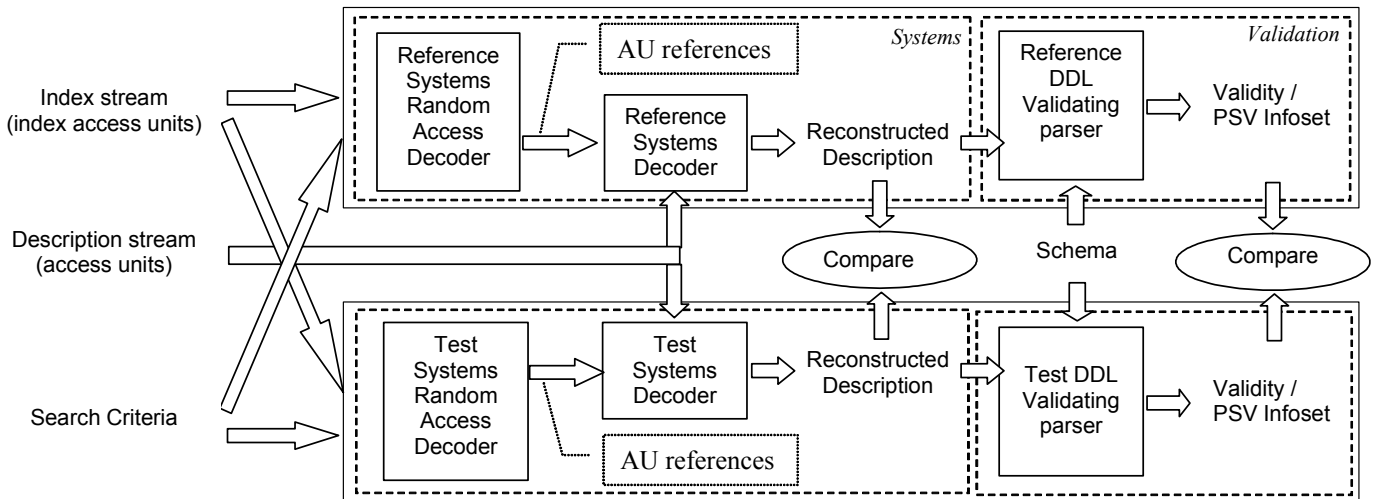


Figure Amd2.2 — Overview of conformance testing of random access systems based validating terminals

Add the following subclause:

5.10 Systems Random Access (Indexing) Encoder

The Systems Random Access (Indexing) Encoder consumes a textual XML description, producing a random access index in index access unit form and a description in binary access unit form. Conformance testing of the Systems Random Access (Indexing) Encoder is not provided.

<https://standards.iteh.ai/catalog/standards/sist/64dd48f0-81a5-40da-a136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007>

Add the following subclause:

5.11 Systems Random Access (Indexing) in Index Access Unit Form

The bitstream in index access unit form, together with its IndexDecoderInit and associated binary access unit bitstream and DecoderInit, are fed to the binary reference systems random access decoders. The search criteria, specified in the bitstream's associated pass/fail criteria document, is fed to the binary reference systems random access decoders. The decoded information is used to create a results set of fragment references after each search criteria. Each resulting results set of fragment references is compared against the pass/fail criteria specified in the bitstreams associated pass/fail criteria document.

The following conditions must be fulfilled as a necessary condition for each binary bitstream in index access unit form:

The syntax of each index access unit as well as the syntax of the IndexDecoderInit, must have correct syntax with respect to the Indexing syntax defined in Clause 10 of ISO/IEC 15938-1:2002.

The syntax of each binary access unit as well as the syntax of the binary DecoderInit must comply with subclause 5.8 of this specification.

Each bitstream, or collection of bitstreams, in index access unit form shall be accompanied by an associated pass/fail conformance document.

The associated pass/fail conformance document shall define the search criteria and the conformance pass/fail criteria for each conformance test.

After each search criteria defined in the associated pass/fail criteria document has been applied, the results set shall match the pass criteria specified in the associated pass/fail criteria document.

Add the following subclause:

5.12 Systems Random Access (Indexing) Decoder

The Systems Random Access (Indexing) Decoder consumes an index in index access unit form, and a search criteria and produces a results set of fragment references, as described in ISO/IEC 15938-1. Conformance testing of the Systems Random Access Decoder involves checking whether the results set of the Systems Random Access Decoder is equivalent to that specified in the pass/fail criteria document associated with the index access unit bitstream. The Test Systems Random Access Decoder is said to be compliant if it produces a results set that matches that specified in the conformance test bitstream's associated pass criteria. The Test Systems Random Access Decoder is not compliant if it returns a results set with more, or less, fragment references than stated in the pass/fail criteria document.

In 6.5.1 Introduction, replace first and second sentences with the following:

“The Systems Conformance Bitstreams consist of streams for BiM conformance, TeM conformance, and Random Access (Indexing) conformance. Table 1, Table 2 and Table Amd2.1 summarize the Systems Conformance Bitstreams.”

iTech STANDARD PREVIEW
(standards.itech.ai)

Add the following subclause:

6.5.1.3 Systems Random Access (Indexing) Conformance Bitstreams.

<https://standards.itech.ai/itec-catalog/644487-itec-40da136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007>

Table Amd2.1 summarizes the Systems Random Access (Indexing) conformance bitstreams.

Table Amd2.1 — Systems Random Access (Indexing) Conformance Bitstreams

Conformance Stream	Index Decoder Init	Index Configuration	String Encoding	Value Encoding	B Tree Path Index	Literal Path Index	BiM Stream Reference Formats	Value Sub Index
\1 IndexDecoderInit\1.1 ...	✓							
...								
\1 IndexDecoderInit\1.2 ...								
\2 IndexConfiguration\2.1 ...		✓						
...								
\2 IndexConfiguration\2.3 ...								

\3 StringEncoding\3.1 ...	✓			
...				
\3 StringEncoding\3.8 ...				
\4 ValueEncoding\4.1 ...	✓			
...				
\4 ValueEncoding\4.2 ...				
\5 BTreePathIndex\5.1 ...		✓		
...				
\5 BTreePathIndex\5.6 ...				
\6 LiteralPathIndex\6.1 ...			✓	
...				
\6 LiteralPathIndex\6.2 ...				
\7 BiMReferenceFormats\7.1 ...				✓
...				
\7 BiMReferenceFormats\7.11 ...				
\8 ValueSubIndex\8.1 ...				✓
...				
\8 ValueSubIndex\8.3 ...				

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO/IEC 15938-7:2003/Amd 2:2007](https://standards.iteh.ai/catalog/standards/sist/64dd48f0-81a5-40da-a136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007)

<https://standards.iteh.ai/catalog/standards/sist/64dd48f0-81a5-40da-a136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO/IEC 15938-7:2003/Amd 2:2007](https://standards.iteh.ai/catalog/standards/sist/64dd48f0-81a5-40da-a136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007)

<https://standards.iteh.ai/catalog/standards/sist/64dd48f0-81a5-40da-a136-c1b05a11c03c/iso-iec-15938-7-2003-amd-2-2007>