

Second edition  
2013-07-15

---

---

## Information technology — JPEG 2000 image coding system —

### Part 6: Compound image file format

*Technologies de l'information — Système de codage d'images  
JPEG 2000 —*

*Partie 6: Format de fichier d'image de composant*

---

---

Reference number  
ISO/IEC 15444-6:2013(E)



This is a preview of "ISO/IEC 15444-6:2013". Click [here](#) to purchase the full version from the ANSI store.



**COPYRIGHT PROTECTED DOCUMENT**

© ISO/IEC 2013

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  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

	<i>Page</i>
1 Scope .....	1
2 Normative references .....	1
2.1 Identical Recommendations   International Standards .....	1
2.2 ITU, IEC and ISO references .....	2
2.3 Additional references .....	2
3 Definitions .....	3
4 Abbreviations .....	4
5 General arrangement .....	4
5.1 Mixed raster content model.....	5
5.2 File elements and structure.....	6
5.3 Hidden text metadata.....	14
5.4 JPM use scenarios .....	15
Annex A – Compound image file structure .....	18
A.1 File identification .....	18
A.2 File organization.....	18
A.3 Box definition .....	20
A.4 Boxes used in a compound image file.....	20
Annex B – Box definitions .....	23
B.1 File level boxes .....	23
B.2 Page level boxes.....	29
B.3 Layout object level boxes.....	31
B.4 Object level boxes.....	33
B.5 JP2 codestream element boxes .....	36
B.6 General/common boxes.....	37
Annex C – Metadata .....	49
C.1 Adding intellectual property rights information in JPM .....	49
C.2 Adding vendor specific information to the JPM file format .....	49
Annex D – Profiles .....	50
D.1 JPM profiles .....	50
D.2 Decompression profiles.....	51
Annex E .....	52
Annex F – Hidden text and annotations storage .....	53
F.1 Storage of HTX in JPM.....	53
F.2 Compression of HTX .....	53
Annex G – Hidden text and annotations types and elements.....	54
G.1 Overview .....	54
G.2 Types.....	55
G.3 Common attributes .....	56
G.4 Elements.....	58
Annex H – Hidden text and annotations schema .....	69
H.1 XML schema.....	69
Annex I – Hidden text and annotations examples.....	70
I.1 Example 1 .....	70
I.2 Example 2 .....	72
I.3 Example 3 .....	72

This is a preview of "ISO/IEC 15444-6:2013". [Click here to purchase the full version from the ANSI store.](#)

J.1	Pages and layout objects .....	90
J.2	Metadata boxes .....	90
J.3	Labels.....	90
J.4	Page collections.....	91
J.5	Page thumbnails .....	91
J.6	Document thumbnail.....	91
J.7	Byte ranges.....	91

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.

ISO/IEC 15444-6 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*, in collaboration with ITU-T. The identical text is published as Rec. ITU-T T.805 (01/2012).

This second edition is a consolidation of the first edition (ISO/IEC 15444-6:2003) and ISO/IEC 15444-6:2003/Amd.1:2007.

ISO/IEC 15444 consists of the following parts, under the general title *Information technology — JPEG 2000 image coding system*:

- *Part 1: Core coding system*
- *Part 2: Extensions*
- *Part 3: Motion JPEG 2000*
- *Part 4: Conformance testing*
- *Part 5: Reference software*
- *Part 6: Compound image file format*
- *Part 8: Secure JPEG 2000*
- *Part 9: Interactivity tools, APIs and protocols*
- *Part 10: Extensions for three-dimensional data*
- *Part 11: Wireless*
- *Part 12: ISO base media file format*
- *Part 13: An entry level JPEG 2000 encoder*
- *Part 14: XML structural representation and reference*