

International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

T.804

Amendment 1
(10/2014)

SERIES T: TERMINALS FOR TELEMATIC SERVICES
Still-image compression – JPEG 2000

Information technology – JPEG 2000 image coding
system: Reference software

**Amendment 1: Reference software for the JP2
file format**

Recommendation ITU-T T.804 (2002) – Amendment 1

ITU-T



ITU-T T-SERIES RECOMMENDATIONS
TERMINALS FOR TELEMATIC SERVICES

Facsimile – Framework	T.0–T.19
Still-image compression – Test charts	T.20–T.29
Facsimile – Group 3 protocols	T.30–T.39
Colour representation	T.40–T.49
Character coding	T.50–T.59
Facsimile – Group 4 protocols	T.60–T.69
Telematic services – Framework	T.70–T.79
Still-image compression – JPEG-1, Bi-level and JBIG	T.80–T.89
Telematic services – ISDN Terminals and protocols	T.90–T.99
Videotext – Framework	T.100–T.109
Data protocols for multimedia conferencing	T.120–T.149
Telewriting	T.150–T.159
Multimedia and hypermedia framework	T.170–T.189
Cooperative document handling	T.190–T.199
Telematic services – Interworking	T.300–T.399
Open document architecture	T.400–T.429
Document transfer and manipulation	T.430–T.449
Document application profile	T.500–T.509
Communication application profile	T.510–T.559
Telematic services – Equipment characteristics	T.560–T.649
Still-image compression – JPEG 2000	T.800–T.829
Still-image compression JPEG XR	T.830–T.849
Still-image compression – JPEG-1 extensions	T.850–T.899

For further details, please refer to the list of ITU-T Recommendations.

Information technology – JPEG 2000 image coding system: Reference software

Amendment 1

Reference software for the JP2 file format

Summary

Rec. ITU-T T.804 (2002) | ISO/IEC 15444-5 provides two independently created software reference implementations of Rec. ITU-T T.800 | ISO/IEC 15444-1, in order to assist implementers of Rec. ITU-T T.800 | ISO/IEC 15444-1 in testing and understanding its content.

Amendment 1 introduces a number of updates into the text of Rec. ITU-T T.804 (2002) | ISO/IEC 15444-5 (2003), including an updated set of reference software for the JP2 file format.

NOTE – This amendment contains two electronic attachments with source code:

1. JASPER.ZIP
2. JJ2000-v5.1.ZIP

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T T.804	2002-08-29	16	11.1002/1000/6124
1.1	ITU-T T.804 (2002) Amd.1	2014-10-14	16	11.1002/1000/12303

* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

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The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

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**INTERNATIONAL STANDARD
RECOMMENDATION ITU-T**

Information technology – JPEG 2000 image coding system: Reference software

Amendment 1

Reference software for the JP2 file format

In clause 1, delete the fifth bullet point:

- partial processing of a JP2 file to extract a JPEG 2000 codestream for decoding to a range of selected widely available image formats.

NOTE – The reference software does not implement a conforming JP2 file reader. See clause 9.

In clause 1, add the following text to the bulleted list:

- Processing of a JP2 file to extract a JPEG 2000 codestream for decoding and conversion to a range of selected widely available image formats.
- The ability to extract metadata from a JP2 file, including the contents of the Image Header box and the colour space.
- The decoding of JP2 files that use the Three-Component Matrix-Based form of the Restricted ICC method for the specification of colour space and the conversion of the decoded image data to the sRGB colour space for display, including limited upsampling of all decoded components to the same resolution.
- The decoding of JP2 files that use the Monochrome form of the Restricted ICC method for the specification of colour space and the conversion of the decoded image data to the sRGB based greyscale space as defined within the JP2 file format.
- The decoding of JP2 files that use the sYCC colour space and the conversion of the decoded image data to the sRGB colour space for display, including upsampling of all decoded components to the same resolution.

In clause 9, replace paragraphs 1, 2 and 3 with the following two paragraphs:

Both sets of reference software offer the capability to encode and decode codestreams and JP2 files that conform to the syntax defined in Rec. ITU-T T.800 | ISO/IEC 15444-1:2003.

For transcoding to other image formats or for display, both sets of reference software allow the user to assume in the absence of additional information that decoded codestream components are in the sRGB colour space or sRGB based greyscale.

In clause 9.1, delete the informative note after bullet 1.

In clause 9.2, delete the informative note after bullet 2.

After paragraph 1 of A.1, delete the informative note.

In A.5, replace the following:

- 1) Partial support (non-conforming) for JPEG 2000 JP2 file (JP2)

with

- 1) JPEG 2000 JP2 file (JP2)

In paragraph 1 of B.1, replace the following:

The decoder provides decompression of a JPEG 2000 codestream into a number of image formats, and partial support (non-conforming) for the JP2 file format (see section 9.2).

with

The decoder provides decompression of a JPEG 2000 codestream into a number of image formats, and support for the JP2 file format.

ISO/IEC 15444-5:2003/Amd.1:2003 (E)

After paragraph 1 of B.1, delete the informative note.

Replace the package files, JASPER.ZIP and JJ2000-v5.1.ZIP, in Rec. ITU-T T.804 | ISO/IEC 15444-5 with the software package files accompanying this amendment.

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Series A	Organization of the work of ITU-T
Series D	General tariff principles
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
Series I	Integrated services digital network
Series J	Cable networks and transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	Telecommunication management, including TMN and network maintenance
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Terminals and subjective and objective assessment methods
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
Series U	Telegraph switching
Series V	Data communication over the telephone network
Series X	Data networks, open system communications and security
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