
**Information technology — Digital
compression and coding of
continuous-tone still images —**

**Part 7:
Reference software**

*Technologies de l'information — Compression numérique et codage
des images fixes à modelé continu —*

Partie 7: Logiciel de référence





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This document was prepared by ITU-T as ITU-T T.873 (05/2019) and drafted in accordance with its editorial rules. It was assigned to Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

A list of all parts in the ISO/IEC 10918 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Electronic attachment with two reference implementations of Rec. ITU-T T.81 | ISO/IEC 10918-1.

Introduction

The ITU-T T.80-series | ISO/IEC 10918-series establishes guidelines and specifies requirements for coding of continuous-tone still images known under the name JPEG. Rec. ITU-T T.81 | ISO/IEC 10918-1 specifies the codestream format and the decoding process. Rec. ITU-T T.81 | ISO/IEC 10918-1 is designed primarily for compression of continuous-tone photographic content.

This Recommendation | International Standard provides reference software for Rec. ITU-T T.81 | ISO/IEC 10918-1. The software has been successfully compiled and tested on Linux and Windows operating systems and conforms to the decoder requirements set forth in Rec. ITU-T T.83 | ISO/IEC 10918-2. It has also been tested for conformance to Rec. ITU-T T.86 | ISO/IEC 10918-4 and ISO/IEC 18477-4.

Instructions for unpacking and building the software are found in Annexes A, and C. Instructions for its use are listed in Annexes B and D.

**INTERNATIONAL STANDARD
ITU-T RECOMMENDATION****Information technology – Digital compression and coding of continuous-tone
still images: Reference software****1 Scope**

This Specification provides reference software for the coding technology specified in Recommendation ITU-T T.81 | ISO/IEC 10918-1. While the reference implementations also provide an encoder, conformance testing of their encoding process is beyond the scope of this Specification.

2 Normative references

The following Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies. At the time of publication, the editions indicated in dated references were valid. All Recommendations and Standards are subject to revision, and parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent edition of the Recommendations and Standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The Telecommunication Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

- Recommendation ITU-T T.81 (latest) | ISO/IEC 10918-1 (latest), *Information technology – Digital compression and coding of continuous-tone still images: Requirements and guidelines*.