
**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 Rec. ITU-T T.873 (06/2021) and drafted in accordance with its editorial rules, in collaboration with Joint Technical Committee ISO/IEC JTC 1, *Information technology, Subcommittee SC 29, Coding of audio, picture, multimedia and hypermedia information*.

This second edition cancels and replaces the first edition (ISO/IEC 10918-7:2019), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the reference software implementations are updated to version 1.58 for reference software 1, and to version 2.0.5 for reference software 2. These versions do not include any new features, they correct implementation errors and improve the overall stability of the software.

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

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 and www.iec.ch/national-committees.

CONTENTS

	<i>Page</i>
1	Scope 1
2	Normative references..... 1
3	Definitions..... 1
4	Abbreviations 1
5	Conventions 2
6	Reference software 2
6.1	Purpose..... 2
6.2	Examples of use..... 2
6.3	General..... 2
Annex A	– Unpacking and compiling reference software A 4
Annex B	– Using reference software A 5
B.1	General..... 5
B.2	Encoder options defining the quality of the image..... 5
B.3	Options controlling the colour space 5
B.4	Options controlling the scan generation and entropy coding..... 5
B.5	Options controlling the quantizer 6
B.6	Options controlling the subsampling of components 6
B.7	Miscellaneous options 6
B.8	Decoder options..... 6
Annex C	– Unpacking and compiling reference software B 7
Annex D	– Using reference software B..... 9
D.1	General..... 9
D.2	Encoder options defining the quality of the base and full image 9
D.3	Encoder options controlling the colour space 9
D.4	Encoder options controlling the scan generation and entropy coding..... 9
D.5	Encoder options controlling the DCT implementation..... 10
D.6	Encoder options controlling the subsampling of components 10
D.7	Miscellaneous encoder options 10
D.8	Decoder options controlling the choice of the inverse discrete cosine transform..... 11
D.9	Decoder options selecting the output file format 11
D.10	Decoder options controlling the rendering of the output image..... 11
D.11	Miscellaneous decoder options 12
D.12	Decompressing to pgx 12
Bibliography 13

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

Introduction

Rec. ITU-T T.81 | ISO/IEC 10918-1 specifies the codestream format and the decoding process, and 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*.