INTERNATIONAL STANDARD

# ISO/IEC 10918-4

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**AMENDMENT 1**
2012-##-##

# Information technology — Digital compression and coding of continuous-tone still images: Registration of JPEG profiles, SPIFF profiles, SPIFF tags, SPIFF colour spaces, APPn markers, SPIFF compression types and Registration Authorities (REGAUT)

## AMENDMENT 1: Application specific marker list

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*Technologies de l'information — Compression numérique et codage des images fixes de nature photographique: Enregistrement des profils JPEG, profils SPIFF, «SPIFF tags», espaces de couleur SPIFF, marqueurs APPn, types de compression SPIFF et autorités d'enregistrement (REGAUT)*

*AMENDEMENT 1: Liste de marqueurs pour application spécfique*

# PROOF/ÉPREUVE

Reference number
ISO/IEC 10918-4:1999/Amd.1:2012(E)

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# 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 1 to ISO/IEC 10918-4 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.86(1998)/Amd.1.

ISO/IEC 10918 consists of the following parts, under the general title *Information technology — Digital compression and coding of continuous-tone still images*:

— *Part 1: Requirements and guidelines*

— *Part 2: Compliance testing*

— *Part 3: Extensions*

— *Part 4: Registration of JPEG profiles, SPIFF profiles, SPIFF tags, SPIFF colour spaces, APPn markers, SPIFF compression types and Registration Authorities (REGAUT)*

— *Part 5: JPEG File Interchange Format (JFIF)*

— *Part 6: Application to printing systems*

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**INTERNATIONAL STANDARD**
ISO/IEC 10918-4:1999/Amd.1
Rec. ITU-T T.86 (06/1998)/Amd.1
**ITU-T RECOMMENDATION**

# Information technology – Registration of JPEG profiles, SPIFF profiles, SPIFF tags, SPIFF colour spaces, APPn markers, SPIFF compression types, and Registration Authorities (REGAUT)

## AMENDMENT 1
## Application specific marker list

## 1) 4.4.4

*Add the following after 4.4.3:*

**4.4.4 Known Application Marker Usage**

Annex D contains a list of known Application Markers (APPn). The intended use of this list is to aid in the identification of APPn markers that are known to be commonly used.

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## 2) Annex D

*Add the following after Annex C:*

## Annex D

(This annex forms an integral part of this Recommendation | International Standard)

### D.1 Definitions

**D.1.1** Identifier string: The first m bytes of the application data APi (for i = 1 to m) of an APPn marker segment containing a zero-terminated character string encoded according to Rec. ITU-T T.50 or ISO/IEC 646, generally intended to serve as a unique identifier for the APPn marker.

### D.2 Known Application Marker usage

#### D.2.1.1 Application Markers

Table D.1 lists the known Application Markers code values. The table lists the APP markers, identifier strings and informative comments for each definition.

**Table D.1 – List of known APP Marker definitions**

| Marker | Identifier String | Comment |
|---|---|---|
| APP0 | JFIF | JPEG File Interchange Format |
| APP0 | JFXX | Extended JFIF |
| APP0 | CIFF | Camera Image File Format (used by some Canon models) |
| APP0 | AVI1 | JPEG AVI information |
| APP1 | EXIF | Exchangeable Image File Format (including maker notes) |
| APP1 | XMP | Extensible Metadata Platform (multi-segment) |
| APP1 | QVCI | Casio QV-7000SX QVCI information |
| APP1 | PIC | Accusoft Pegasus custom fields |

| | | |
|---|---|---|
| APP2 | ICC_PROFILE | International Color Consortium (multi-segment) |
| APP2 | FPXR | FlashPix Ready (multi-segment) |
| APP2 | MPF | Multi-Picture Format |
| APP2 | PreviewImage | Samsung large preview (multi-segment) |
| APP3 | Kodak Meta | Kodak Meta information (EXIF-like) |
| APP3 | Stim | Stereo Still Image format |
| APP3 | PreviewImage | Hewlett-Packard or Samsung (multi-segment) preview |
| APP4 | Scalado | (presumably written by Scalado mobile software) |
| APP4 | FPXR | FlashPix Ready in non-standard location (multi-segment) |
| APP4 | PreviewImage | Continued Samsung preview from APP3 |
| APP5 | Ricoh RMETA | Ricoh custom fields |
| APP6 | EPPIM | Toshiba PrintIM |
| APP6 | NITF | National Imagery Transmission Format |
| APP6 | HP TDHD | Hewlett-Packard Photosmart R837 TDHD information |
| APP7 | NITF0003.A | NIFT directory data segment |
| APP8 | SPIFF | Still Picture Interchange File Format |
| APP10 | Comment | PhotoStudio Unicode Comment |
| APP11 | DD | Still image extension |
| APP12 | Picture Info | ASCII-based Picture Information |
| APP12 | Ducky | Photoshop "Save for Web" |
| APP13 | Photoshop IRB | Image Resource Block (multi-segment, includes IPTC) |
| APP13 | Adobe CM | Adobe Color Management |
| APP14 | Adobe | Adobe DCT filter |
| APP15 | GraphicConverter | GraphicConverter quality |

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## 3) Bibliography

*Add the following to the Bibliography:*

[1] ISO/IEC 646:1991, *Information technology – ISO 7-bit coded character set for information interchange*

[2] ITU-T Recommendation T.50 (1992), *International Reference Alphabet (IRA) (Formerly International Alphabet No. 5 or IA5) – Information technology – 7-bit coded character set for information interchange (Former CCITT T.50 Recommendation)*

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