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**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**

*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 spécifique*



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## Foreword

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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  
RECOMMENDATION ITU-T**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****1) Clause 4.4.4***Add the following new clause after clause 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 application markers that are known to be commonly used.

**2) Annex D***Add the following new Annex D after Annex C:***Annex D****Application-specific marker list**

(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  $AP_i$  (for  $i = 1$  to  $m$ ) of an application marker (APPn) 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 Application markers**

Table D.1 lists the known application marker (APPn) code values. The table lists the APPn markers, identifier strings, and informative comments for each definition.

Table D.1 – List of known application marker (APPn) 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                                |

### 3) Bibliography

Add the following Bibliography:

- Recommendation ITU-T T.50 (1992), *International Reference Alphabet (IRA) (Formerly International Alphabet No. 5 or IA5) – Information technology – 7-bit coded character set for information interchange*.  
ISO/IEC 646:1991, *Information technology – ISO 7-bit coded character set for information interchange*.