INTERNATIONAL STANDARD

ISO/IEC
10918-4

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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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.

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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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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 APi (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*.

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