

IPTC Tags

The tags listed below are part of the International Press Telecommunications Council (IPTC) and the Newspaper Association of America (NAA) Information Interchange Model (IIM). This is an older meta information format, slowly being phased out in favor of XMP -- the newer IPTC Core specification uses XMP format. IPTC information may be found in JPG, TIFF, PNG, MIFF, PS, PDF, PSD, XCF and DNG images.

IPTC information is separated into different records, each of which has its own set of tags. See <http://www.iptc.org/std/IIM/4.1/specification/IIMV4.1.pdf> for the official IPTC IIM specification.

This specification dictates a length for ASCII (**string** or **digits**) and binary (**undef**) values. These lengths are given in square brackets after the **Writable** format name. For tags where a range of lengths is allowed, the minimum and maximum lengths are separated by a comma within the brackets. When writing, ExifTool issues a minor warning and truncates the value if it is longer than allowed by the IPTC specification. Minor errors may be ignored with the IgnoreMinorErrors (-m) option, allowing longer values to be written, but beware that values like this may cause problems for some other IPTC readers. ExifTool will happily read IPTC values of any length.

Separate IPTC date and time tags may be written with a combined date/time value and ExifTool automatically takes the appropriate part of the date/time string depending on whether a date or time tag is being written. This is very useful when copying date/time values to IPTC from other metadata formats.

IPTC time values include a timezone offset. If written with a value which doesn't include a timezone then the current local timezone offset is used (unless written with a combined date/time, in which case the local timezone offset at the specified date/time is used, which may be different due to changes in daylight savings time).

Note that it is not uncommon for IPTC to be found in non-standard locations in JPEG and TIFF-based images. When reading, the family 1 group name has a number added for non-standard IPTC ("IPTC2", "IPTC3", etc), but when writing only "IPTC" may be specified as the group. To keep the IPTC consistent, ExifTool updates tags in all existing IPTC locations, but will create a new IPTC group only in the standard location.

Record	Tag Name	Writable	Values / Notes
1	IPTCEnvelope	-	--> IPTC EnvelopeRecord Tags
2	IPTCApplication	-	--> IPTC ApplicationRecord Tags
3	IPTCNewsPhoto	-	--> IPTC NewsPhoto Tags
7	IPTCPreObjectData	-	--> IPTC PreObjectData Tags
8	IPTCObjectData	-	--> IPTC ObjectData Tags
9	IPTCPostObjectData	-	--> IPTC PostObjectData Tags
240	IPTCFotoStation	-	--> IPTC FotoStation Tags

IPTC EnvelopeRecord Tags

Tag ID	Tag Name	Writable	Values / Notes
0	EnvelopeRecordVersion	int16u:	
5	Destination	string[0,1024]+	
20	FileFormat	int16u	0 = No ObjectData 1 = IPTC-NAA Digital Newsphoto Parameter Record 2 = IPTC7901 Recommended Message Format 3 = Tagged Image File Format (Adobe/Aldus Image data) 4 = Illustrator (Adobe Graphics data) 5 = AppleSingle (Apple Computer Inc)

		6 = NAA 89-3 (ANPA 1312)
		7 = MacBinary II
		8 = IPTC Unstructured Character Oriented File Format (UCOFF)
		9 = United Press International ANPA 1312 variant
		10 = United Press International Down-Load Message
		11 = JPEG File Interchange (JFIF)
		12 = Photo-CD Image-Pac (Eastman Kodak)
		13 = Bit Mapped Graphics File [.BMP] (Microsoft)
		14 = Digital Audio File [.WAV] (Microsoft & Creative Labs)
		15 = Audio plus Moving Video [.AVI] (Microsoft)
		16 = PC DOS/Windows Executable Files [.COM] [.EXE]
		17 = Compressed Binary File [.ZIP] (PKWare Inc)
		18 = Audio Interchange File Format AIFF (Apple Computer Inc)
		19 = RIFF Wave (Microsoft Corporation)
		20 = Freehand (Macromedia/Aldus)
		21 = Hypertext Markup Language [.HTML] (The Internet Society)
		22 = MPEG 2 Audio Layer 2 (Musicom), ISO/IEC
		23 = MPEG 2 Audio Layer 3, ISO/IEC
		24 = Portable Document File [.PDF] Adobe
		25 = News Industry Text Format (NITF)
		26 = Tape Archive [.TAR]
		27 = Tidningarnas Telegrambyra NITF version (TTNITF DTD)
		28 = Ritzaus Bureau NITF version (RBNITF DTD)
		29 = Corel Draw [.CDR]
22	FileVersion	int16u
30	ServicelIdentifier	string[0,10]
40	EnvelopeNumber	digits[8]
50	ProductID	string[0,32]+
60	EnvelopePriority	digits[1]
		0 = 0 (reserved)
		1 = 1 (most urgent)
		2 = 2
		3 = 3
		4 = 4
		5 = 5 (normal urgency)
		6 = 6
		7 = 7
		8 = 8 (least urgent)
		9 = 9 (user-defined priority)
70	DateSent	digits[8]
80	TimeSent	string[11]
90	CodedCharacterSet	string[0,32]!
		(values are entered in the form "ESC X Y[, ...]". The escape sequence for UTF-8 character coding is "ESC % G", but this is displayed as "UTF8" for convenience. Either string may be used when writing. The value of this tag affects the decoding of string values in the Application and NewsPhoto records. This tag is marked as "unsafe" to prevent it from being copied by default in a group operation because existing tags in the destination image may use a different encoding. When creating a new IPTC record from scratch, it is suggested that this be set to "UTF8" if special characters are a possibility)
100	UniqueObjectName	string[14,80]
120	ARMIdentifier	int16u
122	ARMVersion	int16u

IPTC ApplicationRecord Tags

Tag ID	Tag Name	Writable	Values / Notes
0	ApplicationRecordVersion	int16u:	
3	ObjectTypeReference	string[3,67]	
4	ObjectAttributeReference	string[4,68]+	
5	ObjectName	string[0,64]	
7	EditStatus	string[0,64]	
8	EditorialUpdate	digits[2]	01 = Additional language
10	Urgency	digits[1]	0 = 0 (reserved) 1 = 1 (most urgent) 2 = 2 3 = 3 4 = 4 5 = 5 (normal urgency) 6 = 6 7 = 7 8 = 8 (least urgent) 9 = 9 (user-defined priority)
12	SubjectReference	string[13,236]+	
15	Category	string[0,3]	
20	SupplementalCategories	string[0,32]+	
22	FixtureIdentifier	string[0,32]	
25	Keywords	string[0,64]+	
26	ContentLocationCode	string[3]+	
27	ContentLocationName	string[0,64]+	
30	ReleaseDate	digits[8]	
35	ReleaseTime	string[11]	
37	ExpirationDate	digits[8]	
38	ExpirationTime	string[11]	
40	SpecialInstructions	string[0,256]	
42	ActionAdvised	digits[2]	01 = Object Kill 02 = Object Replace 03 = Object Append 04 = Object Reference
45	ReferenceService	string[0,10]+	
47	ReferenceDate	digits[8]+	
50	ReferenceNumber	digits[8]+	
55	DateCreated	digits[8]	
60	TimeCreated	string[11]	
62	DigitalCreationDate	digits[8]	
63	DigitalCreationTime	string[11]	
65	OriginatingProgram	string[0,32]	
70	ProgramVersion	string[0,10]	
75	ObjectCycle	string[1]	'a' = Morning 'b' = Both Morning and Evening 'p' = Evening
80	By-line	string[0,32]+	
85	By-lineTitle	string[0,32]+	
90	City	string[0,32]	

92 Sub-location	string[0,32]	
95 Province-State	string[0,32]	
100 Country-PrimaryLocationCode	string[3]	
101 Country-PrimaryLocationName	string[0,64]	
103 OriginalTransmissionReference	string[0,32]	
105 Headline	string[0,256]	
110 Credit	string[0,32]	
115 Source	string[0,32]	
116 CopyrightNotice	string[0,128]	
118 Contact	string[0,128]+	
120 Caption-Abstract	string[0,2000]	
121 LocalCaption	string[0,256]	(I haven't found a reference for the format of tags 121, 184-188 and 225-232, so I have just make them writable as strings with reasonable length. Beware that if this is wrong, other utilities won't be able to read these tags as written by ExifTool)
122 Writer-Editor	string[0,32]+	
125 RasterizedCaption	undef[7360]	
130 ImageType	string[2]	
131 ImageOrientation	string[1]	'L' = Landscape 'P' = Portrait 'S' = Square
135 LanguageIdentifier	string[2,3]	
150 AudioType	string[2]	'0T' = Text Only '1A' = Mono Actuality '1C' = Mono Question and Answer Session '1M' = Mono Music '1Q' = Mono Response to a Question '1R' = Mono Raw Sound '1S' = Mono Scener '1V' = Mono Voicer '1W' = Mono Wrap '2A' = Stereo Actuality '2C' = Stereo Question and Answer Session '2M' = Stereo Music '2Q' = Stereo Response to a Question '2R' = Stereo Raw Sound '2S' = Stereo Scener '2V' = Stereo Voicer '2W' = Stereo Wrap
151 AudioSamplingRate	digits[6]	
152 AudioSamplingResolution	digits[2]	
153 AudioDuration	digits[6]	
154 AudioOutcue	string[0,64]	
184 JobID	string[0,64]	
185 MasterDocumentID	string[0,256]	
186 ShortDocumentID	string[0,64]	
187 UniqueDocumentID	string[0,128]	
188 OwnerID	string[0,128]	

200 ObjectPreviewFileFormat	int16u	0 = No ObjectData 1 = IPTC-NAA Digital Newsphoto Parameter Record 2 = IPTC7901 Recommended Message Format 3 = Tagged Image File Format (Adobe/Aldus Image data) 4 = Illustrator (Adobe Graphics data) 5 = AppleSingle (Apple Computer Inc) 6 = NAA 89-3 (ANPA 1312) 7 = MacBinary II 8 = IPTC Unstructured Character Oriented File Format (UCOFF) 9 = United Press International ANPA 1312 variant 10 = United Press International Down- Load Message 11 = JPEG File Interchange (JFIF) 12 = Photo-CD Image-Pac (Eastman Kodak) 13 = Bit Mapped Graphics File [.BMP] (Microsoft) 14 = Digital Audio File [.WAV] (Microsoft & Creative Labs) 15 = Audio plus Moving Video [.AVI] (Microsoft) 16 = PC DOS/Windows Executable Files [.COM][.EXE] 17 = Compressed Binary File [.ZIP] (PKWare Inc) 18 = Audio Interchange File Format AIFF (Apple Computer Inc) 19 = RIFF Wave (Microsoft Corporation) 20 = Freehand (Macromedia/Aldus) 21 = Hypertext Markup Language [.HTML] (The Internet Society) 22 = MPEG 2 Audio Layer 2 (Musicom), ISO/IEC 23 = MPEG 2 Audio Layer 3, ISO/IEC 24 = Portable Document File [.PDF] Adobe 25 = News Industry Text Format (NITF) 26 = Tape Archive [.TAR] 27 = Tidningarnas Telegrambyra NITF version (TTNITF DTD) 28 = Ritzaus Bureau NITF version (RBNITF DTD) 29 = Corel Draw [.CDR]
201 ObjectPreviewFileVersion	int16u	
202 ObjectPreviewData	undef[0,256000]	
221 Prefs	string[0,64]	(PhotoMechanic preferences)
225 ClassifyState	string[0,64]	
228 SimilarityIndex	string[0,32]	
230 DocumentNotes	string[0,1024]	
231 DocumentHistory	string[0,256]	
232 ExifCameraInfo	string[0,4096]	
255 CatalogSets	string[0,256]+	(written by iView MediaPro)

IPTC NewsPhoto Tags

Tag ID	Tag Name	Writable	Values / Notes
0	NewsPhotoVersion	int16u:	

10 IPTCPictureNumber	string[16]	(4 numbers: 1-Manufacturer ID, 2-Equipment ID, 3-Date, 4-Sequence)
20 IPTCImageWidth	int16u	
30 IPTCImageHeight	int16u	
40 IPTCPixelWidth	int16u	
50 IPTCPixelHeight	int16u	
55 SupplementalType	int8u	0 = Main Image 1 = Reduced Resolution Image 2 = Logo 3 = Rasterized Caption
60 ColorRepresentation	int16u	0x0 = No Image, Single Frame 0x100 = Monochrome, Single Frame 0x300 = 3 Components, Single Frame 0x301 = 3 Components, Frame Sequential in Multiple Objects 0x302 = 3 Components, Frame Sequential in One Object 0x303 = 3 Components, Line Sequential 0x304 = 3 Components, Pixel Sequential 0x305 = 3 Components, Special Interleaving 0x400 = 4 Components, Single Frame 0x401 = 4 Components, Frame Sequential in Multiple Objects 0x402 = 4 Components, Frame Sequential in One Object 0x403 = 4 Components, Line Sequential 0x404 = 4 Components, Pixel Sequential 0x405 = 4 Components, Special Interleaving
64 InterchangeColorSpace	int8u	1 = X,Y,Z CIE 2 = RGB SMPTE 3 = Y,U,V (K) (D65) 4 = RGB Device Dependent 5 = CMY (K) Device Dependent 6 = Lab (K) CIE 7 = YCbCr 8 = sRGB
65 ColorSequence	int8u	
66 ICC_Profile	no	
70 ColorCalibrationMatrix	no	
80 LookupTable	no	
84 NumIndexEntries	int16u	
85 ColorPalette	no	
86 IPTCBitsPerSample	int8u	
90 SampleStructure	int8u	0 = OrthogonalConstangSampling 1 = Orthogonal4-2-2Sampling 2 = CompressionDependent
100 ScanningDirection	int8u	0 = L-R, Top-Bottom 4 = Top-Bottom, L-R 1 = R-L, Top-Bottom 5 = Bottom-Top, L-R 2 = L-R, Bottom-Top 6 = Top-Bottom, R-L 3 = R-L, Bottom-Top 7 = Bottom-Top, R-L
102 IPTCImageRotation	int8u	0 = 0 1 = 90 2 = 180 3 = 270
110 DataCompressionMethod	int32u	
120 QuantizationMethod	int8u	0 = Linear Reflectance/Transmittance 1 = Linear Density 2 = IPTC Ref B 3 = Linear Dot Percent

		4 = AP Domestic Analogue
		5 = Compression Method Specific
		6 = Color Space Specific
		7 = Gamma Compensated
125 EndPoints	no	
130 ExcursionTolerance	int8u	0 = Not Allowed 1 = Allowed
135 BitsPerComponent	int8u	
140 MaximumDensityRange	int16u	
145 GammaCompensatedValue	int16u	

IPTC PreObjectData Tags

Tag ID	Tag Name	Writable	Values / Notes
10 SizeMode		no	0 = Size Not Known 1 = Size Known
20 MaxSubfileSize		no	
90 ObjectSizeAnnounced		no	
95 MaximumObjectSize		no	

IPTC ObjectData Tags

Tag ID	Tag Name	Writable	Values / Notes
10 SubFile		no+	

IPTC PostObjectData Tags

Tag ID	Tag Name	Writable	Values / Notes
10 ConfirmedObjectSize		no	

IPTC FotoStation Tags

Tag ID	Tag Name	Writable	Values / Notes
<i>[no tags known]</i>			

(This document generated automatically by Image::ExifTool::BuildTagLookup)

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[<-- ExifTool Tag Names](#)