

TIFF USAGE BY PROFILE

TAG	PROFILE	VALUE & DESCRIPTION
254	all M	NewSubfileType Contains flag bits which define characteristics of the image; bit 1; Set if a single page of a multipage image. (1 for TIFF fax) bit 4; Set if Mixed Raster Content (MRC) mode.
256	all	ImageWidth Defines the width of the image in pixels.
257	all	ImageLength Defines the length of the image in scan lines.
258	F, J, L, M C, L, M M	BitsPerSample The number of bits per pixel. 1 for black and white or binary RGB, CMY, CMYK. 8 or 12 for grayscale or ITULAB color. variable for Palette type.
259	M F, M F, M C, M J, M L, M	Compression Defines the type of compression used; 1 = uncompressed. (image base color only) 3 = MH or MR compression with EOLs. 4 = MMR compression. 7 = Lossy JPEG compression. 9 = Lossless JBIG compression for black and white. 10 = Lossless JBIG compression for color or grayscale.
262	F, J, M F, J L, M L, M C, L, M	PhotometricInterpretation Defines the photometric interpretation; 0 = positive image (a zero bit is imaged as white) 1 = negative image (a zero bit is imaged as black) 2 = RGB 5 = CMYK 10 = ITULAB
266	all	FillOrder Defines the bit order of the data; 1 = MSB first; 2 = LSB first
269	all	DocumentName Contains the name of the document. (optional)
270	all	ImageDescription Contains a short description of the image. (optional)
273	all	StripOffsets Multiple entries to define the offset of each strip of the image from the beginning of the file.
274	all	Orientation Defines the orientation of the image on the page. (optional) 1 = 0 th row is the visual top of image and 0 th column is the visual left. 2 = 0 th row is the visual top of image and 0 th column is the visual right. 3 = 0 th row is the visual bottom of image and 0 th column is the visual right. 4 = 0 th row is the visual bottom of image and 0 th column is the visual left. 5 = 0 th column is the visual top of image and 0 th row is the visual left. 6 = 0 th column is the visual top of image and 0 th row is the visual right. 7 = 0 th column is the visual bottom of image and 0 th row is the visual right. 4 = 0 th column is the visual bottom of image and 0 th row is the visual left.
277	All C, L, M M	SamplesPerPixel The number of samples per pixel. 1 = Black and white, L* (grayscale lightness) or Palette color image. 3 = RGB, LAB, or CMY. 4 = CMYK.
278	all	RowsPerStrip Defines the number of rows in each strip.
279	all	StripByteCounts Contains multiple count values, each of which defines the number of bytes in the corresponding strip in the entry.
282	all	XResolution Defines the resolution in the X direction in pixels per <i>ResolutionUnit</i> .
283	all	YResolution Defines the resolution in the Y direction in pixels per <i>ResolutionUnit</i> .
286	M	XPosition Specifies the X offset of the left side of the image, in <i>ResolutionUnits</i> . (optional)
287	M	YPosition Specifies the Y offset of the top of the image, in <i>ResolutionUnits</i> . (optional)

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292	F, M	T4Options Contains flag bits defining T.4 options (required if <i>Compression</i> = 3); bit 0 (LSB); Set if 2-dimensional (MR) compression used. The bit is clear if 1-dimensional (MH) compression is used. bit 2; Set if fill bits have been added to have EOLs byte aligned.
293	F, M	T6Options Contains flag bits defining T.6 options (required if <i>Compression</i> = 4); bit 0 (LSB); Clear if 2-dimensional (MMR) compression used. (Required)
296	all	ResolutionUnit Defines the units of resolution ; 2 = inches, 3 = centimeters.
297	all	PageNumber Specifies the page number of a multipage document. Two SHORT values are presented; the page number followed by the number of pages. The first page is page zero.
305	all	Software The name of the software package that created the image. (optional)
306	all	DateTime Defines the date and time the image was created using a 24 hour format YYYY:MM:DD HH:MM:SS. (optional)
330	M	SubIFD Used in the MRC mode to define the offset from the beginning of the file to a child IFD. An entry exists for each child IFD required.
346	L, M	Indexed When equal to 1, indicates that each sample value is an index into the array of color values (palette-color) presented in the <i>ColorMap</i> field. (The <i>SamplesPerPixel</i> value must also be 1 and the <i>PhotometricInterpretation</i> must be 10.) When equal to zero, the sample values define the image (not palette-color).
347	C, M	JPEGTables Provides JPEG quantization and/or Huffman tables to be used whenever a strip data stream does not contain its own tables. Contains a valid JPEG "abbreviated table specification" datastream that begins with SOI and ends with EOI. The datastream may contain JPEG "tables and miscellaneous" markers.
400	all	GlobalParametersIFD Defines the beginning of an IFD which contains parameters applicable to the entire fax session that created this image data. The parameters in this IFD may be later overridden by fields in an image IFD. This should be the first IFD in the file.
402	all	FaxProfile Defines the TIFF facsimile profile that applies to this file. 0 = Does not conform to a facsimile profile. 1 = Profile S 2 = Profile F 3 = Profile J 4 = Profile C 5 = Profile L 6 = Profile M 7 = Profile T 255 = More than one profile or extension is used.
403	all	CodingMethods Contains a bit map that defines the coding methods used in this file. A bit value of 1 indicates the method, defined by the bit position, is used. bit 0 (LSB); Unspecified compression. bit 1; 1 dimensional Modified Huffman (MH). bit 2; 2 dimensional Modified READ (MR). bit 3; 2 dimensional Modified Modified READ (MMR). bit 4; T.82 coding, using T.85 (JBIG black and white). bit 5; T.81 (baseline JPEG). bit 6; T.82 encoding, using T.43 (JBIG color).
404	C, L, M	VersionYear Contains 4 BYTE values (ASCII characters) that define the year of the version of the standard specified in the <i>FaxProfile</i> field for color TIFF profiles.
405	M	ModeNumber Defines the mode of the standard specified by the <i>FaxProfile</i> field for the Mixed Raster Content (MRC) profile. The value of zero indicates mode 1.0.

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433	C, L, M	Decode minL, maxL, mina, maxa, minb, maxb: L*a*b* values.
434	M	ImageBaseColor Used in the MRC mode to define the default color when no image data is available. An entry exists for each of the <i>SamplesPerPixel</i> in the IFD. The value uses the same encoding as the image data and is interpreted using the <i>PhotometricInterpretation</i> , <i>SamplesPerPixel</i> , <i>BitsPerSample</i> , and <i>Index</i> fields. For the Foreground layer image, the default value is black. For all other cases, including the Background layer image, the default value is white.
435	J, M	T82Options Indicates the applicable profile of JBIG coding used. All bits set to zero indicates the T.85 profile of T.82. No other values are currently defined.
530	C, M	ChromaSubSampling Contains two SHORT values that specify the subsampling factors for the chroma components of a L*a*b* image. The first SHORT value, ChromaSubsampleHoriz , specifies the horizontal factor and the second, ChromaSubsampleVert , specifies the vertical factor. 1 = Equal numbers of lightness and chroma samples. 2 = Twice as many lightness samples as chroma samples.
531	M	ChromaPositioning Specifies the spatial positioning of chroma components relative to the lightness component. 1 = chrominance samples are spatially offset and centered with respect to luminance samples.
559	M	StripRowCounts Used in the MRC mode, in place of <i>RowsPerStrip</i> , to define the number of scan lines in each strip. An entry exists for each strip in the IFD. For strips with more than one layer, the maximumstrip size is 256 scan lines.
34687	all	TIFF-FXExtensions Defines which TIFF-FX extensions apply to this device. This entry can only be present in the GlobalParametersIFD.
34688	all	MultiProfiles Used when extensions of two or more different profiles are present in the file. This entry can only be present in the GlobalParametersIFD. A bit value of 1 indicates the presence of the corresponding profile or profile plus extensions. bit 0 (LSB) Profile S Lossless minimal black and white (MH). bit 1 Profile F Lossless extended black and white (MH, MR, MMR). bit 2 Profile J Lossless black and white (JBIG). bit 3 Profile C Lossy color and grayscale (JPEG). bit 4 Profile L Lossless color and grayscale (JBIG). bit 5 Profile M Mixed Raster Content (MRC). bit 6 Profile T Lossy and lossless black and white (JBIG2). bit 7 Extension 1 Resolution and Image Width extensions. bit 8 Extension 2 N-Layer Profile M extension. bit 9 Extension 3 Shared Data extension bit 10 Extension 5 JBIG2 extension of Profile M bits 11 thru 31 reserved, must be zero.
34732	M	ImageLayer Used in the MRC mode to describe the layer to which the image belongs and the order in which it is to be imaged. Two values are provided, where the first value defines the layer: 1 = The image is the Background layer. 2 = The image is the Primary Mask layer. 3 = The image is the Primary Foreground layer. 4, 6, ..., N (N is even) Additional Mask layers. 5, 7, ..., N (N is odd) Additional Foreground layers. The second value defines the image order, where 1 indicates the first.