

Exiv2 - Feature #465

Support standalone JPEG APP1 segments as an Image format

10 Apr 2006 19:53 - Andreas Huggel

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Robin Mills	% Done:	100%
Category:	not-a-bug	Estimated time:	0.00 hour
Target version:	0.26		
Description			
JPEG parser should be able to read/write standalone JPEG APP1 segments, leave the code common in JpegImage. An App1Image class derived from JpegBase will deal with the format recognition.			
Additional information:			
From an email exchange with Gilles Caulier:			
This seems to be a complete JPEG APP1 Exif segment. To support this in Exiv2, I'll need to tweak the JPEG parser a bit to also accept such a segment alone, but will have to be very careful to avoid side effects. A quick hack is faster: The TIFF header starts 10 bytes into the file, so just add 10 from the beginning of the data buffer and use ExifData::load...			
<pre>// Read the file into a memory buffer long len = io.size(); DataBuf buf(len); io.read(buf.pData_, buf.size_); if (io.error() io.eof()) throw Error(14); ExifData exifData; int rc = exifData.load(buf.pData_ + 10, buf.size_ - 10);</pre>			
-ahu.			
On Tuesday 11 April 2006 04:44, you wrote:			
Andreas,			
Here we are a bin raw exif file extrcated from my Minolta Dynax 5D camera using gphoto2 interface (via digikam camera gui)			
This file cannot be parsed by Exiv2. I don't know why...			
But, this file can be parsed using libexif (via old implementation of digikam).			
Can you give me your viewpoint ? This problem can be fixed easily into Exiv2 core ?			
Thanks in advance			
Gilles Caulier			
Related issues:			
Related to Exiv2 - Feature #467: Interface to access (Exif) metadata in binar...		New	

History

#1 - 04 May 2010 13:45 - Jim Nelson

Just a note: the fix listed above is out-of-date. I had to use this to work around the problem:

```
Exiv2::Image::AutoPtr image = Exiv2::ImageFactory::create(Exiv2::ImageType::jpeg);
Exiv2::ExifParser::decode(image->exifData(), data + 10, n_data - 10);
```

#2 - 22 Aug 2015 09:39 - Robin Mills

- *Description updated*
- *Category changed from metadata to not-a-bug*
- *Status changed from New to Closed*
- *Assignee set to Robin Mills*
- *Target version set to 0.26*

I don't believe there is such a file format. It is not listed here: https://en.wikipedia.org/wiki/List_of_file_signatures

It would be possible to write a little filter *app1tojpeg* to wrap such the file into a genuine JPEG which can be handled by Exiv2.

#3 - 22 Aug 2015 16:16 - Robin Mills

- *% Done changed from 0 to 100*

Files

exif_from_gphoto_camera.dat	52.4 KB	10 Apr 2006	Redmine Admin
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