Exiv2 - Feature #467

Interface to access (Exif) metadata in binary form

25 Apr 2006 21:12 - Andreas Huggel

Status:	New		**Start date:**	
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	0%
Category:	design		**Estimated time:**	0.00 hour
Target version:	0.28			

Description

The Exif data in a Jpeg image is in an "Exif APP1 segment". This is convenient because it contains all Exif data in a small block of memory (up to 64kB).
Various applications need an interface in Exiv2 to access such a binary Exif representation. Currently this interface is provided by ExifData::load / ExifData::copy (and similarly by IptcData::load / IptcData::copy for IPTC)

Issues with this current implementation:
1) It is specific to Jpeg.
2) It is in the wrong class (see bug #405), ExifData and IptcData shouldn't do parsing/writing of data from/to specific formats
3) There are a few slightly different valid requirements with regards to the beginning of this data block, e.g.:
a) start with the APP1 signature (see bug #465)
b) start with the Exif string (libjpeg)
c) start with the TIFF header (current implementation)

Related issues:

Related to Exiv2 - Feature #465: Support standalone JPEG APP1 segments as an ...		**Closed**	
Related to Exiv2 - Bug #613: TiffImage does not honor the writeXmpFromPacket ...		**Closed**	**28 Jan 2009**

History

#1 - 07 Sep 2006 02:13 - Andreas Huggel

Should go in class Image

#2 - 25 Jun 2008 07:58 - Andreas Huggel

With the introduction of the new TIFF parser, the ExifData::load / ExifData::copy methods moved to ExifParser::decode and ExifParser::encode.

There is still a need to access the binary representation of the Exif data (starting with the TIFF header) of images in JPEG and other formats which have a similar Exif data block.

#3 - 17 Dec 2008 09:32 - Andreas Huggel

- Target version set to 1.0

#4 - 16 Sep 2016 07:12 - Robin Mills

- Target version changed from 1.0 to 0.28

I'm moving this issue to v0.27. The *image->printStructure()* interface provides this interface for ICC profiles and I'm confident we can add a *kpsPrintStructure* enumerator to export binary information to a stream. In v0.26, the user can use *$ exiv2 -pX foo.xxx* and *$ exiv2 -pC foo.xxx* to extract XMP and ICC Profiles from an image. I believe it's straightforward to extend this to implement options such as -pE which would create a TIFF from the Exif metadata in an image.