

Exiv2 - Patch #778

Add support for Windows Live Photo Gallery face tags

13 Jul 2011 15:09 - Leif Huhn

Status:	Closed	Start date:	13 Jul 2011
Priority:	Normal	Due date:	
Assignee:		% Done:	100%
Category:	xmp	Estimated time:	0.00 hour
Target version:	0.23		
Description			
Hi.			
I'm attempting to add support for WLPG face tags (Microsoft Photo 1.2 Schema).			
http://msdn.microsoft.com/en-us/library/ee719905%28VS.85%29.aspx			
I have a patch but I'm a little confused about what exactly the various values should be. exiv2 seems to allow me to write correct XMP regardless of some of the values I put into properties.cpp, so I don't know how to check if I'm doing this right. The tags are nested structures (see the bottom of the msdn link for an example).			
My patch has these lines:			
<pre>+ extern const XmpPropertyInfo xmpMPRegionInfo[] = { + // End of list marker + { "MPRI:Regions", N_("MPRI:Regions"), "Text", xmpBag, xmpExternal, N_("Bag of MPReg") }, + { "DateRegionsValid", N_("DateRegionsValid"), "Text", xmpText, xmpExternal, N_("Date the last rectangle was created") }, + { 0, 0, 0, invalidTypeId, xmpInternal, 0 } + };</pre>			
Question 1: I think the MPRI:Regions line must be wrong, because no other line in that file has a ":" in that field. What should I be putting there instead?			
Question 2: Should I be registering all three name spaces in xmp.cpp as I am now?			
Question 3: Are there xmpText values in that file for documentation only? That is, would libexiv2 work without them? Because in my testing for MP it seemed like it worked without them.			
For reference, here's how I'm using exiv2 after I apply the patch. The XMP looks right, but I think my patch probably has some problems.			
src/exiv2 -M"set Xmp.MP.RegionInfo/MPRI:Regions XmpText type=Bag" example.xmp src/exiv2 -M"set Xmp.MP.RegionInfo/MPRI:Regions ¹ /MPReg:Rectangle 0.11 0.22 0.33 0.44" example.xmp src/exiv2 -M"set Xmp.MP.RegionInfo/MPRI:Regions ¹ /MPReg:PersonDisplayName Leif" example.xmp			
Also, sorry, the patch is against 0.21.1. I am having difficulties getting the svn to compile.			
Related issues:			
Related to Exiv2 - Patch #798: Add MS Photo RegionInfo and MetaWorkingGroup R...		Closed	11 Jan 2012

Associated revisions

Revision 2568 - 27 Jul 2011 20:18 - Andreas Huggel

#778: Added epsimage.[ch]pp files to cmake scripts.

History

#1 - 14 Jul 2011 01:03 - Gilles Caulier

To compile Exiv2 from svn trunk, i recommend to use cmake script. Got to root folder and run "cmake .". Look the report. If there are some errors, please copy and paste the trace here...

Gilles Caulier

#2 - 16 Jul 2011 09:51 - Leif Huhn

```
[ 91%] Built target exiv2
Linking CXX executable exiv2
libexiv2.so.10.1.0: undefined reference to `Exiv2::newEpsInstance(std::auto_ptr<Exiv2::BasicIo>, bool)'
libexiv2.so.10.1.0: undefined reference to `Exiv2::isEpsType(Exiv2::BasicIo&, bool)'
collect2: ld returned 1 exit status
make2: * [src/exiv2] Error 1
make1: [src/CMakeFiles/exiv2bin.dir/all] Error 2
make: ** [all] Error 2
```

#3 - 17 Jul 2011 22:46 - Andreas Huggel

Looks like the new epsimage.[ch]pp files have not been added to the cmake build files. I'll fix that. In the meantime, compiling via the standard make config; ./configure; make; make install works.

#4 - 27 Jul 2011 21:32 - Andreas Huggel

[r2568](#) should fix the cmake compilation issue.

#5 - 13 Jan 2012 20:36 - Andreas Huggel

- Category set to xmp
- Target version set to 0.23
- % Done changed from 0 to 100

Fixed with [#798](#).

#6 - 09 Mar 2012 15:35 - Ananta Palani

Andreas Huggel wrote:

Fixed with [#798](#).

I'm not sure this is fixed. I think some of the questions need to be addressed still. As to Question 1, according to the spec all the fields need to be prefixed with their appropriate schema namespace, for instance MPRI:DateRegionsValid or MPReg:Rectangle. If this is done automatically by exiv2 based on the namespace then I think 'MPRI:Regions' should be changed to 'Regions'. If it is not done automatically, then the namespace prefix should be added to all properties.

Just from looking at the code, Question 2 looks like a 'yes', but I'm not sure. Question 3?

Also, is the <MP:RegionInfo> tag written by exiv2 automatically?

#7 - 09 Mar 2012 21:26 - Andreas Huggel

Ananta is right, I should have also answered the questions in the original report. "Fixed with [#798](#)" only says that the Microsoft Photo MP, MPRI and MPReg namespaces and tags have been added to the Exiv2 XMP property reference tables.

Question 1: Yes, the Exiv2 reference tables contain property names without any namespaces. The namespaces are registered separately. Look, e.g., for "xmpMicrosoftPhotoInfo" in properties.cpp to see how this was eventually implemented.

Question 2: Yes, that's right.

Question 3: The exiv2 utility uses a type explicitly given on the command line. The type in the reference tables is only used if none is provided on the command line and if an XMP property is not found in the reference tables, its default type is xmpText. In addition, the misbehavior noted in this context may have been due to bug [#799](#).

Also, is the <MP:RegionInfo> tag written by exiv2 automatically?

In the [commands](#) used for the regression test case, it is set by the first line:

```
$ exiv2 -v -M'set Xmp.MP.RegionInfo/MPRI:Regions' exiv2-empty.jpg
File 1/1: exiv2-empty.jpg
Set Xmp.MP.RegionInfo/MPRI:Regions "" (XmpBag)
$ exiv2 -pa exiv2-empty.jpg
Xmp.MP.RegionInfo                                XmpText      0  type="Struct "
Xmp.MP.RegionInfo/MPRI:Regions                    XmpBag        0
$ exiv2 -eX exiv2-empty.jpg
$ cat exiv2-empty.xmp
<?xml version="1.0" encoding="UTF-8"?>
<x:xmpmeta xmlns:x="adobe:meta/" x:xmptk="XMP Core 4.4.0-Exiv2">
  <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">
```

```
<rdf:Description rdf:about=""
  xmlns:MP="http://ns.microsoft.com/photo/1.2/"
  xmlns:MPRI="http://ns.microsoft.com/photo/1.2/t/RegionInfo#">
<MP:RegionInfo rdf:parseType="Resource">
  <MPRI:Regions>
    <rdf:Bag/>
  </MPRI:Regions>
</MP:RegionInfo>
</rdf:Description>
</rdf:RDF>
</x:xmpmeta>
```

Hope that answer the questions.

Andreas

#8 - 10 Mar 2012 01:06 - Ananta Palani

Andreas, thanks for the detailed answer, I should have checked svn before replying!

-Ananta

#9 - 10 Mar 2012 21:25 - Andreas Huggel

- Status changed from New to Resolved

#10 - 03 May 2012 17:14 - Andreas Huggel

- Status changed from Resolved to Closed

Files

exiv2.diff	3.7 KB	13 Jul 2011	Leif Huhn
------------	--------	-------------	-----------