

Exiv2 - Bug #622

Exiv2 doesn't parse MicrosoftPhoto schema prefix correctly.

18 Mar 2009 23:34 - Andreas Huggel

Status:	Closed	Start date:	18 Mar 2009
Priority:	Normal	Due date:	
Assignee:		% Done:	100%
Category:	xmp	Estimated time:	0.00 hour
Target version:	0.18.1		

Description

Exiv2 does not correctly parse the MicrosoftPhoto schema prefix from an XMP packet created with with Nikon Capture NX2, which uses "Public XMP Toolkit Core 3.5".
Exiv2 changes MicrosoftPhoto to MicrosoftPhoto_1_ and even MicrosoftPhoto_1__1__.

However, if the XMP packet is created from scratch with Exiv2, all is fine.

(Reported by Gilles Caulier / Sylvain CROUZILLAT)

```
ahuggel@kelana> ./exiv2 -px 2stars.jpg
Xmp.xmp.Rating                               XmpText      1  2
Xmp.MicrosoftPhoto_1_.Rating                 XmpText      2  25
Xmp.dc.description                           LangAlt       1  lang="x-default" (c) Sylvain.CROUZILLA
T@CROUCROU.COM
Xmp.dc.subject                               XmpBag        1  Mariage
Xmp.photoshop.DateCreated                    XmpText     10  2008-12-12

ahuggel@kelana> ./exiv2 -ex 2stars.jpg

ahuggel@kelana> cat 2stars.exv # output slightly edited
<?xpacket begin="ï¿" id="W5M0MpCehiHzreSzNTczkc9d"?>
<x:xmpmeta xmlns:x="adobe:ns:meta/" x:xmptk="XMP Core 4.1.1-Exiv2">
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
<rdf:Description rdf:about=""
  xmlns:xap="http://ns.adobe.com/xap/1.0/"
  xmlns:MicrosoftPhoto_1__1_="http://ns.microsoft.com/photo/1.0/"
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:photoshop="http://ns.adobe.com/photoshop/1.0/"
  xap:Rating="2"
  MicrosoftPhoto_1__1_:Rating="25"
  photoshop:DateCreated="2008-12-12">
<dc:description>
<rdf:Alt>
  <rdf:li xml:lang="x-default">(c) Sylvain.CROUZILLAT@CROUCROU.COM </rdf:li>
</rdf:Alt>
</dc:description>
<dc:subject>
<rdf:Bag>
  <rdf:li>Mariage</rdf:li>
</rdf:Bag>
</dc:subject>
</rdf:Description>
</rdf:RDF>
</x:xmpmeta>
<?xpacket end="w"?>

ahuggel@kelana> xmpdump 2starts.jpg

ahuggel@kelana> cat 2starts.jpg.xml
<?xpacket begin="ï¿¸" id="W5M0MpCehiHzreSzNTczkc9d"?>
<x:xmpmeta xmlns:x="adobe:ns:meta/" x:xmptk="Public XMP Toolkit Core 3.5">
  <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    <rdf:Description rdf:about=""
```

```

        xmlns:xap="http://ns.adobe.com/xap/1.0/">
        <xap:Rating>2</xap:Rating>
    </rdf:Description>
    <rdf:Description rdf:about=""
        xmlns:MicrosoftPhoto="http://ns.microsoft.com/photo/1.0">
        <MicrosoftPhoto:Rating>25</MicrosoftPhoto:Rating>
    </rdf:Description>
    <rdf:Description rdf:about=""
        xmlns:dc="http://purl.org/dc/elements/1.1/">
        <dc:description>
        <rdf:Alt>
            <rdf:li xml:lang="x-default">(c) Sylvain.CROUZILLAT@CROUCROU.COM </rdf:li>
        </rdf:Alt>
        </dc:description>
        <dc:subject>
        <rdf:Bag>
            <rdf:li>Mariage</rdf:li>
        </rdf:Bag>
        </dc:subject>
    </rdf:Description>
    <rdf:Description rdf:about=""
        xmlns:photoshop="http://ns.adobe.com/photoshop/1.0/">
        <photoshop:DateCreated>2008-12-12</photoshop:DateCreated>
    </rdf:Description>
</rdf:RDF>
</x:xmpmeta>
<?xpacket end="w"?>

```

If the XMP packet is created with Exiv2, all is fine:

```

ahuggel@kelana> cat e.cmd
set Xmp.xmp.Rating 2
set Xmp.MicrosoftPhoto.Rating 25
set Xmp.dc.description lang="x-default" (c) Sylvain.CROUZILLAT@CROUCROU.COM
set Xmp.dc.subject Mariage
set Xmp.photoshop.DateCreated 2008-12-12

ahuggel@kelana> ./exiv2 -v -m e.cmd e.jpg
File 1/1: e.jpg
Set Xmp.xmp.Rating "2" (XmpText)
Set Xmp.MicrosoftPhoto.Rating "25" (XmpText)
Set Xmp.dc.description "lang="x-default" (c) Sylvain.CROUZILLAT@CROUCROU.COM" (LangAlt)
Set Xmp.dc.subject "Mariage" (XmpBag)
Set Xmp.photoshop.DateCreated "2008-12-12" (XmpText)

ahuggel@kelana> ./exiv2 -px e.jpg
Xmp.xmp.Rating                XmpText      1  2
Xmp.MicrosoftPhoto.Rating     XmpText      2  25
Xmp.photoshop.DateCreated      XmpText     10  2008-12-12
Xmp.dc.description            LangAlt       1  lang="x-default" (c) Sylvain.CROUZILLA
T@CROUCROU.COM
Xmp.dc.subject                XmpBag        1  Mariage

ahuggel@kelana> xmpdump e.jpg

ahuggel@kelana> cat e.jpg.xml
<?xpacket begin=" " id="W5M0MpCehiHzreSzNTczkc9d"?>
<x:xmpmeta xmlns:x="adobe:ns:meta/" x:xmptk="XMP Core 4.1.1-Exiv2">
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
<rdf:Description rdf:about=""
    xmlns:xap="http://ns.adobe.com/xap/1.0/"
    xmlns:MicrosoftPhoto="http://ns.microsoft.com/Photo/1.0/"
    xmlns:dc="http://purl.org/dc/elements/1.1/"
    xmlns:photoshop="http://ns.adobe.com/photoshop/1.0/"
    xap:Rating="2"
    MicrosoftPhoto:Rating="25"
    photoshop:DateCreated="2008-12-12">

```

```
<dc:description>
  <rdf:Alt>
    <rdf:li xml:lang="x-default">(c) Sylvain.CROUZILLAT@CROUCROU.COM</rdf:li>
  </rdf:Alt>
</dc:description>
<dc:subject>
  <rdf:Bag>
    <rdf:li>Mariage</rdf:li>
  </rdf:Bag>
</dc:subject>
</rdf:Description>
</rdf:RDF>
</x:xmpmeta><?xpacket end="w"?>
```

Associated revisions

Revision 1769 - 20 Mar 2009 08:30 - Andreas Huggel

#622: Fixed MicrosoftPhoto URI in call to RegisterNamespace.

Revision 1770 - 21 Mar 2009 01:40 - Andreas Huggel

#622: Fixed the same typo in the doc too.

History

#1 - 18 Mar 2009 23:56 - Andreas Huggel

This seems to be an incompatibility between "Public XMP Toolkit Core 3.5" used by Nikon Capture NX2 and the XMP SDK used by Exiv2. It looks like something is going wrong deep inside XMP SDK.

Next steps:

- Check if the problem can be reproduced with XMP SDK alone
- If so, check if the latest version of XMP SDK fixes the problem, if it doesn't, report as a bug for XMP SDK (Adobe)

#2 - 19 Mar 2009 01:53 - Andreas Huggel

Gilles,

The problem is very simple. Look at the namespace URIs: Nikon Capture NX2 uses <http://ns.microsoft.com/photo/1.0> (*p*hoto), but Exiv2 has <http://ns.microsoft.com/Photo/1.0/> (*P*hoto). If I make it lowercase in Exiv2, it works with the samples. But which URI is correct??

Andreas

#3 - 19 Mar 2009 02:04 - Gilles Caulier

Andreas Huggel wrote:

Gilles,

The problem is very simple. Look at the namespace URIs: Nikon Capture NX2 uses <http://ns.microsoft.com/photo/1.0> (*p*hoto), but Exiv2 has <http://ns.microsoft.com/Photo/1.0/> (*P*hoto). If I make it lowercase in Exiv2, it works with the samples. But which URI is correct??

Andreas

Andreas,

In last Exiftool, Microsoft XMP namespaces are :

```
MicrosoftPhoto => 'http://ns.microsoft.com/photo/1.0',
MP              => 'http://ns.microsoft.com/photo/1.2/',
MPRI           => 'http://ns.microsoft.com/photo/1.2/t/RegionInfo#',
MPReg         => 'http://ns.microsoft.com/photo/1.2/t/Region#',
```

For NX i cannot any reference...

Gilles Caulier

#4 - 20 Mar 2009 08:31 - Andreas Huggel

- Status changed from New to Resolved

- Target version set to 0.18.1

- % Done changed from 0 to 100

[r1768](#), [r1769](#)

#5 - 30 Mar 2009 06:12 - Andreas Huggel

- Status changed from Resolved to Closed