

## Exiv2 - Bug #439

### The exiv2 library should be re-entrant

11 Sep 2005 01:26 - Andreas Huggel

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Andreas Huggel	<b>% Done:</b>	100%
<b>Category:</b>	design	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.22		
<b>Description</b>			
Exiv2 is currently not re-entrant. I'm aware of the following problems, but maybe there are more: + It uses the old versions of some C/Posix functions instead of the *_r version. + Construction of the Image and Makernote factories accesses static variables without any protection			

#### Associated revisions

##### Revision 2538 - 01 Jul 2011 08:03 - Andreas Huggel

#439: Added optional parameters to XmpParser::initialize() to work around thread-safety issues (Jonathan Potter, GP Software)

#### History

##### #1 - 25 Jun 2008 08:03 - Andreas Huggel

AFAICS This is finally fixed with the removal of the complex Makernote registration logic.

##### #2 - 14 Jul 2008 05:33 - Andreas Huggel

Exiv2::XmpParser::initialize and Exiv2::XmpProperties::registerNs are not thread-safe, see [http://bugs.kde.org/show\\_bug.cgi?id=166424](http://bugs.kde.org/show_bug.cgi?id=166424)

##### #3 - 18 Dec 2008 18:39 - Andreas Huggel

- Target version changed from 0.18 to 1.0
- % Done changed from 0 to 80

##### #4 - 20 May 2009 02:11 - Andreas Huggel

See also [Thread safety](#) in the Wiki.

##### #5 - 20 May 2009 03:39 - Gilles Caulier

Andreas Huggel wrote:

- Exiv2 is currently not re-entrant. I'm aware of the following problems, but maybe there are more:  
+ It uses the old versions of some C/Posix functions instead of the \*\_r version.  
+ Construction of the Image and Makernote factories accesses static variables without any protection

And use d private internal classes to host privates members/methods, to improve bianry compatibility and clean up code... This is very important for a library.

Look here for details from KDE project :

[http://techbase.kde.org/Policies/Library\\_Code\\_Policy#Shared\\_D-Pointers](http://techbase.kde.org/Policies/Library_Code_Policy#Shared_D-Pointers)

Gilles Caulier

##### #6 - 01 Jul 2011 08:09 - Andreas Huggel

- Status changed from Feedback to Resolved
- Target version changed from 1.0 to 0.22
- % Done changed from 80 to 100

##### #7 - 18 Sep 2011 05:27 - Andreas Huggel

- Status changed from Resolved to Closed