

## Exiv2 - Feature #614

### silence warnings from code

29 Jan 2009 15:23 - drhex -

<b>Status:</b> Closed	<b>Start date:</b> 29 Jan 2009
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 100%
<b>Category:</b> design	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> 0.21	
<b>Description</b>	
<p>When exiv2 is scanning the metadata of images, it often outputs warnings about minor problems on the console that makes it difficult to find messages about more acute problems. I know that one can run ./configure with -DSUPPRESS_WARNINGS to get it more quiet, but I reckon many users will have "apt-get installed" exiv2 rather than compiling it for themselves.</p> <p>How about changing all the lines that now does e.g.</p> <pre>std:cerr &lt;&lt; "Blah blah";</pre> <p>so that they instead call some central message-output method and also supply a severity level with the message.</p> <p>Then, the code that calls exiv2 methods could call some method to set a threshold for which messages are passed thru to cerr.</p>	
<b>Related issues:</b>	
Related to Exiv2 - Feature # 476: Error handler: Applications should be able ...	<b>Closed</b>
Duplicated by Exiv2 - Bug # 725: -DSUPPRESS_WARNINGS is kind of hokey	<b>Closed</b> <b>02 Sep 2010</b>

#### Associated revisions

##### Revision 2344 - 10 Sep 2010 07:02 - Andreas Huggel

#476, #614: Introduced class LogMsg for enhanced logging, migrated all existing warnings and error messages (not the exceptions) to use the new logic. Every log message now has a type (debug, info, warning, error). Applications can set a logging level to determine which messages are processed and supply a custom log message handler at runtime. (Based on a contribution by Simson Garfinkel.)

##### Revision 2415 - 28 Dec 2010 15:36 - Andreas Huggel

#476, #614: Simplified LogMsg. It's not quite as elegant as before anymore but should be much more portable and more efficient. (MSVC 7.1 didn't like the original implementation.)

#### History

##### #1 - 05 Sep 2010 01:43 - Andreas Huggel

<http://dev.exiv2.org/boards/3/topics/447#message-459>

##### #2 - 10 Sep 2010 07:15 - Andreas Huggel

- Category changed from *basicio* to *design*
- Status changed from *New* to *Resolved*
- Target version set to *0.21*
- % Done changed from *0* to *100*

Applications can now set the log level to determine which log messages they are interested in:

```
// Set the log level to only show errors (and suppress warnings, informational and debug messages)
```

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```
Exiv2::LogMsg::setLevel(Exiv2::LogMsg::error);
```

To suppress all log messages set the log level to `Exiv2::LogMsg::mute` or set the log message handler to 0 (see #476).  
For more details, see the new class `Exiv2::LogMsg` (`error.hpp`)

The `SUPPRESS_WARNINGS` mechanism still exists, in case there is a need to avoid compiling the log messaging calls in the library completely.

**#3 - 22 Nov 2010 18:31 - Andreas Huggel**

*- Status changed from Resolved to Closed*