

## U++ - Bug #44

### Fix libnotify compatibility across its versions

03/08/2011 09:28 AM - Lionel Orry

<b>Status:</b>	Approved	<b>Start date:</b>	03/08/2011
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	Jan Dolinár	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Description</b>			
<p>Hi,</p> <p>I noticed that since <b>libnotify-0.7.0</b>, the API has changed and more specifically the prototype of <code>notify_notification_new()</code>. The attached patch attempts to make the code in <code>TrayIconX11.cpp</code> compatible with both APIs.</p> <p>I only tested it with <b>libnotify-0.7.1</b>, so I'd like someone to check if it still compiles with an older <b>libnotify</b> (0.6 or 0.5 branch).</p> <p>Thanks, Lionel</p>			

#### History

##### #1 - 03/08/2011 01:25 PM - Miroslav Fidler

- Assignee changed from Miroslav Fidler to Jan Dolinár

Patch applied, I ask Jan to provide the final check (like try to compile it with natty and some older ubuntu :) and approve.

##### #2 - 03/08/2011 04:14 PM - Lionel Orry

Note: fixed by revision r3272

##### #3 - 03/08/2011 11:05 PM - Jan Dolinár

Tested on Arch with libnotify 0.5.2 and it fails to compile. I believe that the check in `TrayIconX11` should look like this:

```
#if !defined(flagNOGTK)
#include <glib.h>
#include <libnotify/notify.h>
#if NOTIFY_CHECK_VERSION(0,7,0)
#define NOTIFY_VERSION_GT_0_7_0
#endif
#endif
```

Natty has the same version (I will test in few minutes), some of the previous versions of Ubuntu go as deep as 4.5 :) We will see detailed results for each tomorrow morning in launchpad :) Mirek, it would be great if you can commit the above snippet tonight, otherwise the NOGTK builds will most probably fail.

##### #4 - 03/08/2011 11:06 PM - Jan Dolinár

- Status changed from New to In Progress

- Assignee changed from Jan Dolinár to Miroslav Fidler

**#5 - 03/08/2011 11:11 PM - Jan Dolinár**

Jan Dolinár wrote:

*Mirek, it would be great if you can commit the above snippet tonight, otherwise the NOGTK builds will most probably fail.*

Meh, talking nonsense here :) Actually the non-NOGTK (that is normal) builds would fail :)

Also, since the check is at one place only the `#if NOTIFY_CHECK_VERSION(0,7,0)` could be directly at the place where is it used...

**#6 - 03/09/2011 06:17 AM - Sender Ghost**

Tested on FreeBSD with [libnotify](#) 0.5.2 version and it also fails to compile with committed patch from [r3272](#).

But it compiles with proposed patch changes by Jan Dolinár.

**#7 - 03/09/2011 06:29 AM - Jan Dolinár**

Upon further inspection I found I was also wrong about the ubuntu version. I must have been really tired yesterday :-/ In Natty there is 0.5.0, which differs from 0.5.2 in one significant detail - it lacks the `NOTIFY_CHECK_VERSION` macro, so original code from Lionel would actually work there and my correction wouldn't. So for best compatibility across all versions I think it must be `#if !defined(flagNOGTK)`

```
#include <glib.h>
#include <libnotify/notify.h>
#ifdef NOTIFY_CHECK_VERSION
    #if NOTIFY_CHECK_VERSION(0,7,0)
        #define NOTIFY_VERSION_GT_0_7_0
    #endif
#endif
#endif
#endif
```

This works in Natty (libnotify 0.5.0) and in Arch both with 0.5.2 and 0.7.1.

Sorry for the mistakes yesterday...

Sender Ghost: Thanks for confirmation ;)

**#8 - 03/09/2011 08:05 AM - Lionel Orry**

MY first fix was the same as Jan, then I noticed the lack of the macro. I must have looked at the code from 0.5.0 and not 0.5.2...

So the last fix from Jan fits in perfectly IMO :)

Thanks for testing,

Lionel

**#9 - 03/09/2011 12:42 PM - Miroslav Fidler**

- Status changed from In Progress to Ready for QA

- Assignee changed from Miroslav Fidler to Jan Dolinár

#10 - 03/09/2011 06:03 PM - Jan Dolinár

- Status changed from Ready for QA to Approved
- % Done changed from 0 to 100

Works fine on every version I tested.

Files

fix_libnotify_compat.diff	822 Bytes	03/08/2011	Lionel Orry
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