

## strongSwan - Issue #538

### use dlopen(file, RTLD\_NOW|RTLD\_GLOBAL) for the plugin loader

04.03.2014 08:34 - Pavel Šimerda

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	Tobias Brunner	
<b>Category:</b>	libstrongswan	
<b>Affected version:</b>	5.1.2	<b>Resolution:</b> No feedback
<b>Description</b>		
I have noticed a patch in Fedora doing exactly that. I have no detailed information but I will get them when needed.		
<pre>diff -urNp strongswan-5.1.1-patched/src/libstrongswan/plugins/plugin_loader.c strongswan-5.1.1-current/src/libstrongswan/plugins/plugin_loader.c --- strongswan-5.1.1-patched/src/libstrongswan/plugins/plugin_loader.c 2013-11-01 13:12:06.046927 153 -0400 +++ strongswan-5.1.1-current/src/libstrongswan/plugins/plugin_loader.c 2013-11-01 13:16:59.680916 657 -0400 @@ -353,7 +353,7 @@ static plugin_entry_t *load_plugin(privat         return NULL;     } } - handle = dlopen(file, RTLD_LAZY); + handle = dlopen(file, RTLD_NOW RTLD_GLOBAL); if (handle == NULL) {     DBG1(DBG_LIB, "plugin '%s' failed to load: %s", name, dlerror()); }</pre>		
<b>Related issues:</b>		
Related to Issue #332: build fails with -Wl,-z,defs		<b>Closed</b>

## History

### #1 - 04.03.2014 08:45 - Pavel Šimerda

- File libstrongswan-973315.patch added

Also, please see:

[https://bugzilla.redhat.com/show\\_bug.cgi?id=973315](https://bugzilla.redhat.com/show_bug.cgi?id=973315)

And the related Fedora patch (attachment).

### #2 - 04.03.2014 08:58 - Tobias Brunner

- Related to Issue #332: build fails with -Wl,-z,defs added

### #3 - 04.03.2014 13:47 - Tobias Brunner

- Status changed from New to Feedback

- Assignee set to Tobias Brunner

Are both patches needed? Or does it work if only one of them is applied?

The RTLD\_GLOBAL fix would be minimal and since we prefix global functions with the plugin name there should be no name clashes (they would conflict with `--enable-monoithic` anyway). But if RTLD\_GLOBAL is not needed it would avoid any issues with third-party plugins or future changes.

Linking the plugins to the libraries they use would also be fine, but doing so properly for all plugins is some work. Is it enough to just do this, or is RTLD\_GLOBAL still required if this is done?

### #4 - 14.03.2014 23:36 - Pavel Šimerda

I'm trying to get more information from the co-maintainer. Currently I don't have more information that you can find in the linked bug report. I'll be happy to drop any of the patches as appropriate.

**#5 - 16.04.2014 19:55 - Pavel Šimerda**

- *File strongswan-5.1.3-plugins.patch added*

This new patch is a fusion of the two patches previously used in Fedora. I'm still trying to get the author's response.

**#6 - 16.04.2014 20:09 - Pavel Šimerda**

More information:

- [https://bugzilla.redhat.com/show\\_bug.cgi?id=1007548](https://bugzilla.redhat.com/show_bug.cgi?id=1007548)
- <http://comments.gmane.org/gmane.network.vpn.strongswan.user/6348>

**#7 - 26.05.2014 16:51 - Pavel Šimerda**

- *File strongswan-5.1.1-plugins.patch added*

Updated patch. Still trying to get response from the patch author.

**#8 - 26.05.2014 17:25 - Pavel Šimerda**

Sorry for the changed version number in the patch filename. Still the last submitted patch is also the newest.

**#9 - 30.05.2016 14:26 - Tobias Brunner**

- *Category set to libstrongswan*
- *Status changed from Feedback to Closed*
- *Resolution set to No feedback*

Closing old issues. If this is still a problem, please reopen.

**Files**

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libstrongswan-973315.patch	8.94 KB	04.03.2014	Pavel Šimerda
strongswan-5.1.3-plugins.patch	8.17 KB	16.04.2014	Pavel Šimerda
strongswan-5.1.1-plugins.patch	8.3 KB	26.05.2014	Pavel Šimerda