

## Smuxi - Bug # 667: GNOME frontend leaks memory

<b>Status:</b>	Feedback	<b>Priority:</b>	Urgent
<b>Author:</b>	Mirco Bauer	<b>Category:</b>	Frontend GNOME
<b>Created:</b>	01/01/2012	<b>Assigned to:</b>	Mirco Bauer
<b>Updated:</b>	11/26/2013	<b>Due date:</b>	
<b>Complexity:</b>	High		
<b>Found in Version:</b>			
<b>Subject:</b>	GNOME frontend leaks memory		
<b>Description:</b>	It looks like the GNOME frontend is leaking memory. After a single day the memory usage (RSS) is way above 100MB while it starts around 60MB with a fully populated interface.		

### Associated revisions

---

#### 01/25/2013 02:48 AM - Mirco Bauer

[Frontend-GNOME] Fixed thread/memleak when reconnecting frontend (closes: #805, refs: #667)

Reconnecting to the smuxi-server was leaking all ChatView objects as the ChatViewManager.ChatRemoved event was never raised from ChatViewManager.Clear(). Thus StatusIconManager, NotifyManager and IndicateManager continued to reference ChatViews objects. This leaked the LastSeenHighlightQueue thread and probably also GTK+'s TextBuffer used in MessageTextView.

Now we use the regular cleanup code of ChatViewManager.RemoveChat() instead.

#### 02/01/2013 04:21 AM - Mirco Bauer

[Frontend-GNOME] Fixed a few leaking references to ChatView (refs: #667)

#### 02/01/2013 04:21 AM - Mirco Bauer

[Frontend-GNOME] Fix remaining ChatView memleak (refs: #667)

Release TreeViewColumn.SetCellDataFunc() callback in ChatView.Dispose()

#### 02/01/2013 07:32 AM - Mirco Bauer

[Frontend-GNOME] Explicitly dispose TextTagTable to fix leaking LinkTags (refs: #667)

#### 04/21/2013 12:08 PM - Mirco Bauer

[Frontend] Fixed leaking ChatView references held by ChatViewSyncManager.SyncReleaseQueue (refs: #667)

#### 04/21/2013 01:28 PM - Mirco Bauer

[Frontend-GNOME] Fixed memory leak in MessageTextView.GetPangoWidth() (refs: #667)

#### 04/21/2013 05:32 PM - Mirco Bauer

[Frontend-GNOME] Fixed leaking text marks in MessageTextView.AddMessage() (refs: #667)

#### 04/21/2013 05:35 PM - Mirco Bauer

[Frontend-GNOME] Fixed leaking text tags in MessageTextView.CheckBufferSize() (refs: #667)

#### 05/06/2013 12:39 PM - Mirco Bauer

[Frontend-GNOME] Explicitly release Pango.Layouts (refs: #667)

#### 05/06/2013 12:41 PM - Mirco Bauer

[Frontend-GNOME] Fixed leaking topic MessageTextViews (refs: #667)

**05/06/2013 01:46 PM - Mirco Bauer**

[Frontend-GNOME] Explicitly release Pango.Context in ThemeSettings (refs: #667)

**05/06/2013 01:47 PM - Mirco Bauer**

[Frontend-GNOME] Release SyncedPersons in GroupChatView.Populate() (refs: #667)

**01/12/2014 08:23 AM - Mirco Bauer**

Frontend-GNOME: fixed leaking PersonTags in MessageTextView (refs: #667)

## History

---

**01/01/2012 11:08 PM - Michael Schmitt**

50000 persitent buffer lines

200 volatile buffer lines

1000 engine buffer lines

1000 buffer lines

234MB right after start / finished sync, 29 tabs (server- and channeltabs)

frontend version: 0.8.1-0~65~natty1 (Sat, 31 Dec 2011 20:19:13 +0000)

mono runtime: 2.6.7-5 (mono-runtime, Debian sid)

runtime: I keep an eye on it and update this ticket accordingly.

**01/02/2012 05:24 PM - Michael Schmitt**

Michael Schmitt wrote:

> 50000 persitent buffer lines

> 200 volatile buffer lines

> 1000 engine buffer lines

> 1000 buffer lines

>

> 234MB right after start / finished sync, 29 tabs (server- and channeltabs)

> frontend version: 0.8.1-0~65~natty1 (Sat, 31 Dec 2011 20:19:13 +0000)

> mono runtime: 2.6.7-5 (mono-runtime, Debian sid)

> runtime: I keep an eye on it and update this ticket accordingly.

After approximately one day: 390MB

**01/03/2012 10:59 AM - Michael Schmitt**

> After approximately one day: 390MB

After almost 2 days: 593MB

**01/04/2012 05:10 AM - Michael Schmitt**

Michael Schmitt wrote:

> > After approximately one day: 390MB

>

> After almost 2 days: 593MB

Day 3, over 900MB, stopped the test. What next?

**01/04/2012 06:21 AM - Michael Schmitt**

Next test, (engine) buffer set to 200 lines, with now 32 tabs open. Right from the start 217MB. Did an upgrade before the test, now on Debian sids packages (newer than daily build?) 0.8.9.1-1.

**01/05/2012 10:16 AM - Michael Schmitt**

Still stripped down to 200 (buffer) lines, after approximately one day, 479MB and still on sids packages.

**01/07/2012 09:58 AM - Mirco Bauer**

- Target version changed from 0.10 to 0.8.10

**06/30/2012 05:35 AM - Mirco Bauer**

- Target version changed from 0.8.10 to 0.9

**01/25/2013 03:05 AM - Mirco Bauer**

- Status changed from New to Feedback

Please test git master HEAD and check if the memory usage stops increasing as seen in your tests.

**01/28/2013 01:52 AM - Mirco Bauer**

- File *smuxi-memleak3.jpg* added

**01/28/2013 02:23 AM - Mirco Bauer**

- File *smuxi-memleak2.jpg* added

**01/28/2013 02:25 AM - Mirco Bauer**

<pre>

```
mono --trace=T:GLib.DestroyHelper,T:GtkSharp.TreelaterCompareFuncWrapper,M:Gtk.ListStore:SetSortFunc smuxi-frontend-gnome.exe
```

```
[0x7f37f899d740: 0.00000 0] ENTER: Gtk.ListStore:SetSortFunc (int,Gtk.TreelaterCompareFunc)(this:0x7f37e40934d0[Gtk.ListStore smuxi-frontend-gnome.exe], 0, [Gtk.TreelaterCompareFunc:0x7f37e407b958], )
```

```
[0x7f37f899d740: 0.00044 1] ENTER: GtkSharp.TreelaterCompareFuncWrapper:.ctor (Gtk.TreelaterCompareFunc)(this:0x7f37e4063ed8[GtkSharp.TreelaterCompareFuncWrapper smuxi-frontend-gnome.exe], [Gtk.TreelaterCompareFunc:0x7f37e407b958], )
```

```
[0x7f37f899d740: 0.00067 1] LEAVE: GtkSharp.TreelaterCompareFuncWrapper:.ctor (Gtk.TreelaterCompareFunc)
```

```
[0x7f37f899d740: 0.00106 1] ENTER: GLib.DestroyHelper:get_NotifyHandler ()()
```

```
[0x7f37f899d740: 0.00108 1] LEAVE: GLib.DestroyHelper:get_NotifyHandler ()[GLib.DestroyNotify:0x7f37e407b7b8]
```

```
[0x7f37f899d740: 0.00138 0] LEAVE: Gtk.ListStore:SetSortFunc (int,Gtk.TreelaterCompareFunc)
```

```
[0x7f37f899d740: 0.00440 0] ENTER: GLib.DestroyHelper:get_NotifyHandler ()()
```

```
[0x7f37f899d740: 0.00445 0] LEAVE: GLib.DestroyHelper:get_NotifyHandler ()[GLib.DestroyNotify:0x7f37e407b7b8]
```

```
[0x7f37f899d740: 12.64061 0] ENTER: (wrapper native-to-managed) GLib.DestroyHelper:ReleaseGCHandle (IntPtr)(0x29f3, )
```

```
[0x7f37f899d740: 12.64100 1] ENTER: GLib.DestroyHelper:ReleaseGCHandle (IntPtr)(0x29f3, )
```

```
[0x7f37f899d740: 12.64104 1] LEAVE: GLib.DestroyHelper:ReleaseGCHandle (IntPtr)
```

```
[0x7f37f899d740: 12.64107 0] LEAVE: (wrapper native-to-managed) GLib.DestroyHelper:ReleaseGCHandle (IntPtr)
```

</pre>

**01/28/2013 02:28 AM - Mirco Bauer**

- File *smuxi-memleak.jpg* added

**04/30/2013 12:05 PM - Mirco Bauer**

- File *paste\_43f2e89d.txt* added

As of 0a42f227858ef99d679f07b64244319e97dcae34 / ~226 the frontend still leaks memory somewhere:

<pre>

```
Mo 29. Apr 03:54:24 CEST 2013
```

mschmitt 8343 112 16.1 334224 166140 ? RI 03:48 6:44 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe  
mschmitt 8479 0.0 0.0 3572 824 pts/3 S+ 03:54 0:00 grep mono

---

Mo 29. Apr 03:59:34 CEST 2013

mschmitt 8343 63.8 16.4 334352 169208 ? SI 03:48 7:07 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 04:59:34 CEST 2013

mschmitt 8343 16.6 16.8 334416 173284 ? SI 03:48 11:51 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 05:59:34 CEST 2013

mschmitt 8343 14.2 16.8 334416 173284 ? SI 03:48 18:42 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 06:59:34 CEST 2013

mschmitt 8343 13.2 16.8 334548 172384 ? SI 03:48 25:17 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 07:59:34 CEST 2013

mschmitt 8343 15.0 20.9 378840 215168 ? RI 03:48 37:43 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 08:59:35 CEST 2013

mschmitt 8343 15.7 21.2 387160 218384 ? SI 03:48 49:02 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 09:59:35 CEST 2013

mschmitt 8343 15.3 21.3 387224 218708 ? SI 03:48 56:54 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 10:59:35 CEST 2013

mschmitt 8343 15.0 21.3 387224 218928 ? SI 03:48 64:42 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 11:59:35 CEST 2013

mschmitt 8343 14.9 21.1 387492 216540 ? SI 03:48 73:26 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 12:59:35 CEST 2013

mschmitt 8343 14.7 21.1 387624 216776 ? SI 03:48 81:08 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 13:59:35 CEST 2013

mschmitt 8343 14.4 21.1 388024 217088 ? SI 03:48 88:28 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 14:59:35 CEST 2013

mschmitt 8343 14.4 20.9 388420 214680 ? SI 03:48 96:44 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 15:59:35 CEST 2013

mschmitt 8343 14.9 21.0 389220 215580 ? SI 03:48 109:39 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 16:59:35 CEST 2013

mschmitt 8343 15.4 21.1 389880 217148 ? SI 03:48 122:25 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 17:59:35 CEST 2013

mschmitt 8343 16.1 21.2 390672 218020 ? RI 03:48 137:47 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 18:59:35 CEST 2013

mschmitt 8343 16.8 21.0 391464 216376 ? SI 03:48 153:44 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 19:59:36 CEST 2013

mschmitt 8343 17.5 20.8 392400 214376 ? RI 03:48 170:42 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 20:59:36 CEST 2013

mschmitt 8343 17.9 20.8 393048 214096 ? SI 03:48 184:47 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 21:59:37 CEST 2013

mschmitt 8343 17.8 20.8 393460 213596 ? SI 03:48 195:08 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 22:59:37 CEST 2013

mschmitt 8343 18.0 20.8 394256 214060 ? SI 03:48 207:34 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Mo 29. Apr 23:59:37 CEST 2013

mschmitt 8343 18.0 20.8 394928 214280 ? SI 03:48 219:07 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 00:59:37 CEST 2013

mschmitt 8343 18.1 25.5 440036 262172 ? RI Apr29 230:21 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 01:59:37 CEST 2013

mschmitt 8343 17.9 25.7 440100 264436 ? SI Apr29 238:23 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 02:59:37 CEST 2013

mschmitt 8343 17.6 25.8 440100 264664 ? SI Apr29 245:03 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 03:59:37 CEST 2013

mschmitt 8343 17.2 25.7 440100 263960 ? SI Apr29 250:47 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 04:59:38 CEST 2013

mschmitt 8343 17.1 25.7 440100 263892 ? SI Apr29 259:33 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 05:59:38 CEST 2013

mschmitt 8343 16.8 25.7 440100 264168 ? SI Apr29 264:51 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 06:59:38 CEST 2013

mschmitt 8343 16.5 25.7 440100 263932 ? SI Apr29 269:37 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 07:59:38 CEST 2013

mschmitt 8343 16.5 27.2 462464 279676 ? SI Apr29 279:54 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 08:59:38 CEST 2013

mschmitt 8343 16.2 27.5 462596 282296 ? SI Apr29 284:54 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 09:59:38 CEST 2013

mschmitt 8343 16.2 26.8 462728 275416 ? SI Apr29 294:35 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 10:59:38 CEST 2013

mschmitt 8343 16.3 26.8 462996 275616 ? SI Apr29 305:03 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 11:59:38 CEST 2013

mschmitt 8343 16.4 26.6 463532 273732 ? RI Apr29 317:04 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 12:59:39 CEST 2013

mschmitt 8343 16.6 26.8 464308 275876 ? RI Apr29 331:24 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

---

Di 30. Apr 13:59:39 CEST 2013

mschmitt 8343 16.6 26.9 464836 276616 ? SI Apr29 342:10 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

Di 30. Apr 14:59:39 CEST 2013

mschmitt 8343 16.6 26.9 465232 276264 ? SI Apr29 351:21 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

Di 30. Apr 15:59:39 CEST 2013

mschmitt 8343 16.7 26.9 465892 276532 ? SI Apr29 364:20 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

Mi 1. Mai 06:17:24 CEST 2013

mschmitt 8343 12.6 33.2 528596 341268 ? SI Apr29 383:19 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

Mi 1. Mai 07:17:24 CEST 2013

mschmitt 8343 12.6 32.5 528596 333820 ? SI Apr29 390:12 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

Mi 1. Mai 08:17:25 CEST 2013

mschmitt 8343 12.8 35.2 561600 361396 ? SI Apr29 403:50 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

Mi 1. Mai 09:17:25 CEST 2013

mschmitt 8343 12.7 35.2 561748 361088 ? SI Apr29 409:21 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

Mi 1. Mai 10:17:25 CEST 2013

mschmitt 8343 12.7 35.2 561880 361472 ? SI Apr29 416:51 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

Mi 1. Mai 11:17:25 CEST 2013

mschmitt 8343 12.8 35.2 562144 361384 ? SI Apr29 426:58 mono --debug /usr/lib/smuxi/smuxi-frontend-gnome.exe

</pre>

#### 08/18/2013 01:31 PM - Mirco Bauer

- Target version changed from 0.9 to 0.10

#### 08/25/2013 06:47 PM - Michael Schmitt

- File *smuxi-RAM-stats.log* added

- File *smuxi-frontend-gnome.log.tar.xz* added

New testrun with the following packages / versions:

smuxi 1:0.9+git-0~292~precise1 (dailys from ppa.launchpad.net/meebey/smuxi-daily)

mono-runtime 3.0.6+dfsg2-4 (debian sid)

with the following buffer settings:

Buffer lines 1000

Engine buffer lines 1000

persistence typ persistent

Lines of volatile buffer 1000

lines of persistent buffer 50000

#### 08/25/2013 07:22 PM - Mirco Bauer

Looks like it leaks 60-90 MB/day for you

#### 11/26/2013 08:13 PM - Mirco Bauer

- Target version deleted (0.10)

#### Files

smuxi-memleak3.jpg

39.5 KB

01/28/2013

Mirco Bauer

smuxi-memleak2.jpg	45.7 KB	01/28/2013	Mirco Bauer
smuxi-memleak.jpg	73.2 KB	01/28/2013	Mirco Bauer
paste_43f2e89d.txt	5.1 KB	04/30/2013	Mirco Bauer
smuxi-RAM-stats.log	14.7 KB	08/25/2013	Michael Schmitt
smuxi-frontend-gnome.log.tar.xz	330.9 KB	08/25/2013	Michael Schmitt