

Smuxi - Bug # 1072: exposed IpcChannel is world-writable

Status:	Closed	Priority:	Urgent
Author:	Mirco Bauer	Category:	Frontend GNOME
Created:	07/01/2015	Assigned to:	Mirco Bauer
Updated:	07/14/2015	Due date:	
Complexity:	Medium		
Found in Version:			
Subject:	exposed IpcChannel is world-writable		
Description:	<div>in /tmp</div> <div>&lt;pre&gt;</div> <div>srw-rw-rw- 1 mirco.bauer mirco.bauer 0 2015-06-22 11:30</div> <div>_usr_lib_smuxi_smuxi-frontend-gnome.exe</div> <div>&lt;/pre&gt;</div> <div>This is problematic for systems with multiple users, as the other users can control the Smuxi instance of the first user.</div>		

Associated revisions

07/14/2015 05:34 PM - Mirco Bauer  
Frontend-GNOME: ensure rendezvous point for IPC is private (closes: #1072)

History

07/02/2015 12:09 AM - Mirco Bauer  
From ./mcs/class/System.Runtime.Remoting/System.Runtime.Remoting.Channels.Ipc.Unix/IpcServerChannel.cs:

```
<pre>
    internal static string BuildPathFromPortName (string portName)
    {
        if (!Win32.IpcChannelHelper.IsValidPipeName (portName))
            throw new RemotingException ("Invalid IPC port name");
        return Path.Combine (Path.GetTempPath (), portName);
    }
</pre>
```

07/02/2015 12:15 AM - Mirco Bauer  
in mcs/class/Mono.Posix/Mono.Remoting.Channels.Unix/UnixServerChannel.cs:

```
<pre>
    listener = new UnixListener (path);
    Mono.Unix.Native.Syscall.chmod (path,
        Mono.Unix.Native.FilePermissions.S_IRUSR |
        Mono.Unix.Native.FilePermissions.S_IWUSR |
        Mono.Unix.Native.FilePermissions.S_IRGRP |
        Mono.Unix.Native.FilePermissions.S_IWGRP |
        Mono.Unix.Native.FilePermissions.S_IROTH |
        Mono.Unix.Native.FilePermissions.S_IWOTH);
</pre>
```

07/02/2015 12:19 AM - Mirco Bauer  
from ./mcs/class/System.Runtime.Remoting/System.Runtime.Remoting.Channels.Ipc.Unix/README:

```
<pre>
```

=====

\*.Ipc.Unix is a wrapper for Mono.Remoting.Channels.Unix.

The Unix channels are loaded via reflection.

The wrapper is performing the following mappings:

IPC	UNIX
-----	
portName="foo"	path=\$TEMP/foo
ipc://foo/bar.rem	unix://\$TEMP/foo?/bar.rem

</pre>

#### 07/02/2015 12:35 AM - Mirco Bauer

So Mono is creating a unix socket in /tmp, chmodded 666, named after the port name of the IPC channel. According to MSDN docs [0] it is supposed to be only accessible by the same user by default, that would be chmod 600 on Unix.

[0]: [https://msdn.microsoft.com/en-us/library/ms172351\(v=vs.80\)](https://msdn.microsoft.com/en-us/library/ms172351(v=vs.80))

#### 07/05/2015 03:05 AM - Mirco Bauer

- *Priority changed from Normal to Urgent*

#### 07/13/2015 08:20 PM - Mirco Bauer

Path.GetTempPath() -> [ICall] Path.get\_temp\_path() -> ves\_icall\_System\_IO\_get\_temp\_path() -> g\_get\_tmp\_dir() of eglib [0] or glib [1]

[0]: <https://github.com/mono/mono/blob/mono-3.2.8-branch/eglib/src/gmisc-win32.c#L146>

[1]: <https://developer.gnome.org/glib/stable/glib-Miscellaneous-Utility-Functions.html#g-get-tmp-dir>

So the TMP, TMPDIR and TEMP environment variables influences the location of the chosen temp directory

#### 07/14/2015 07:36 PM - Mirco Bauer

- *Status changed from New to Closed*

- *% Done changed from 0 to 100*

Applied in changeset commit:"709af0de6cdd439c307aeb359c7a309e2eede50e".