

## strongSwan - Bug #2389

### Building of Android Vpn Client Failed

23.07.2017 14:21 - Royi Cohen

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Tobias Brunner	<b>Estimated time:</b>	0.00 hour
<b>Category:</b>	android	<b>Resolution:</b>	Fixed
<b>Target version:</b>	5.6.0		
<b>Affected version:</b>	5.5.3		
<b>Description</b>			
Hi,			
I am trying to build the APK from sources: downloaded the sources from git, should I use a specific version ?			
Followed the instruction from : <a href="https://wiki.strongswan.org/projects/strongswan/wiki/AndroidVPNClientBuild">https://wiki.strongswan.org/projects/strongswan/wiki/AndroidVPNClientBuild</a>			
I am using Android Studio 2.3.3 on Ubuntu 14.04 with gcc 4.8.4			
When running the build I get the following errors:			
<pre>_/home/rcohen/git-repository/strongswan/src/frontends/android/app/src/main/jni/../../../../../../../../. ./src/libimcv/ietf/ietf_attr.c:109: error: undefined reference to 'ietf_swima_attr_sw_ev_create_f rom_data' /home/rcohen/git-repository/strongswan/src/frontends/android/app/src/main/jni/../../../../../../../../. ./src/libimcv/ietf/ietf_attr.c:101: error: undefined reference to 'ietf_swima_attr_req_create_from _data' /home/rcohen/git-repository/strongswan/src/frontends/android/app/src/main/jni/../../../../../../../../. ./src/libimcv/ietf/ietf_attr.c:105: error: undefined reference to 'ietf_swima_attr_sw_inv_create_f rom_data' collect2: error: ld returned 1 exit status make: *** [/home/rcohen/git-repository/strongswan/src/frontends/android/app/src/main/obj/local/x86 /libimcv.so] Error 1 make: *** Waiting for unfinished jobs.... /home/rcohen/git-repository/strongswan/src/frontends/android/app/src/main/obj/local/arm64-v8a/objs /imcv/ietf/ietf_attr.o: In function `ietf_attr_create_from_data': /home/rcohen/git-repository/strongswan/src/frontends/android/app/src/main/jni/../../../../../../../../. ./src/libimcv/ietf/ietf_attr.c:101: undefined reference to `ietf_swima_attr_req_create_from_data' /home/rcohen/git-repository/strongswan/src/frontends/android/app/src/main/jni/../../../../../../../../. ./src/libimcv/ietf/ietf_attr.c:103: undefined reference to `ietf_swima_attr_sw_inv_create_from_dat a' /home/rcohen/git-repository/strongswan/src/frontends/android/app/src/main/jni/../../../../../../../../. ./src/libimcv/ietf/ietf_attr.c:107: undefined reference to `ietf_swima_attr_sw_ev_create_from_data ' /home/rcohen/git-repository/strongswan/src/frontends/android/app/src/main/jni/../../../../../../../../. ./src/libimcv/ietf/ietf_attr.c:105: undefined reference to `ietf_swima_attr_sw_inv_create_from_dat a' /home/rcohen/git-repository/strongswan/src/frontends/android/app/src/main/jni/../../../../../../../../. ./src/libimcv/ietf/ietf_attr.c:109: undefined reference to `ietf_swima_attr_sw_ev_create_from_data ' collect2: error: ld returned 1 exit status make: *** [/home/rcohen/git-repository/strongswan/src/frontends/android/app/src/main/obj/local/arm 64-v8a/libimcv.so] Error 1  :app:buildNative FAILED  FAILURE: Build failed with an exception.  * What went wrong: Execution failed for task ':app:buildNative'. &gt; Process 'command '/home/rcohen/Android/Sdk/ndk-bundle/ndk-build'' finished with non-zero exit va</pre>			

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I saw a reference that suggest adding the following line to the Application.mk in order to use an older version of the NDK, but I still getting the errors:

```
NDK_TOOLCHAIN_VERSION := 4.9
```

will appropriate any help, thanks,

Royi

## History

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### #1 - 24.07.2017 12:07 - Tobias Brunner

- *Tracker changed from Issue to Bug*
- *Description updated*
- *Category set to android*
- *Status changed from New to Feedback*
- *Assignee set to Tobias Brunner*
- *Target version set to 5.6.0*
- *Resolution set to Fixed*

This error is not related to the NDK version. Some new files were simply missing in the Android.mk of libimcv. Fixed with [bf565b650c](#) (and [6b69a66379](#)). As a workaround you could disable the BYOD stuff (see comment in the jni/Android.mk file) then libimcv won't be built.

### #2 - 24.07.2017 16:13 - Royi Cohen

Thanks, I took the fix and it worked :-), you are correct the NDK was added because of another issue I had.

### #3 - 24.07.2017 16:21 - Tobias Brunner

- *Status changed from Feedback to Closed*