

strongSwan - Bug #2567

libtpmtss compile issue

27.02.2018 13:32 - Nicolai Kuntze

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Andreas Steffen	Estimated time:	0.00 hour
Category:	build	Resolution:	Fixed
Target version:	5.7.0		
Affected version:	5.6.2		
Description			
Hi,			
I have some issues compiling libtpmtss together with the recent version of the TSS 2.0. I already adjusted the #include <tpm20.h> to #include <sapi/tpm20.h>, reflecting the changes in the TSS includes location.			
Best regards, Nicolai			
<pre>make[5]: Entering directory '/home/pi/StrongSwan/strongswan/src/libtpmtss' depbase=`echo tpm_tss_tss2.lo sed 's [^/]*\$.deps/& ;s \.lo\$ '`; \ /bin/bash ../../libtool --tag=CC --mode=compile gcc -DHAVE_CONFIG_H -I. -I../.. -I../..src/libstrongswan -I/usr/local/include -g -O2 -Wall -Wno-format -Wno-format-security -Wno-pointer-sign -include /home/pi/StrongSwan/strongswan/config.h -MT tpm_tss_tss2.lo -MD -MP -MF \$depbase.Tpo -c -o tpm_tss_tss2.lo tpm_tss_tss2.c && \ mv -f \$depbase.Tpo \$depbase.Plo libtool: compile: gcc -DHAVE_CONFIG_H -I. -I../.. -I../..src/libstrongswan -I/usr/local/include -g -O2 -Wall -Wno-format -Wno-format-security -Wno-pointer-sign -include /home/pi/StrongSwan/strongswan/config.h -MT tpm_tss_tss2.lo -MD -MP -MF .deps/tpm_tss_tss2.Tpo -c tpm_tss_tss2.c -fPIC -DPIC -o .libs/tpm_tss_tss2.o tpm_tss_tss2.c:70:2: error: unknown type name 'TPM_ALG_ID' TPM_ALG_ID supported_algs[TPM_PT_ALGORITHM_SET]; ^~~~~~ tpm_tss_tss2.c:70:28: error: 'TPM_PT_ALGORITHM_SET' undeclared here (not in a function) TPM_ALG_ID supported_algs[TPM_PT_ALGORITHM_SET]; ^~~~~~ tpm_tss_tss2.c:87:8: error: unknown type name 'TPM_ALG_ID' static TPM_ALG_ID hash_alg_to_tpm_alg_id(hash_algorithm_t alg) ^~~~~~ tpm_tss_tss2.c: In function 'hash_alg_to_tpm_alg_id': tpm_tss_tss2.c:92:11: error: 'TPM_ALG_SHA1' undeclared (first use in this function) return TPM_ALG_SHA1;</pre>			
[omitted rest of output]			

History

#1 - 27.02.2018 15:07 - Tobias Brunner

- Description updated

- Status changed from New to Feedback

I have some issues compiling libtpmtss together with the recent version of the TSS 2.0.

I guess you are not building against a release ([1.3.0](#) respectively [1.4.0-rc1](#) seem to be the latest) or the 1.x branch, but the master branch.

I already adjusted the #include <tpm20.h> to #include <sapi/tpm20.h>, reflecting the changes in the TSS includes location.

Looks like that was caused by [this commit](#). Didn't you also have to change the tcti_socket.h include?

I'm not sure, but it might also be necessary to check for the *sapi* package as the *tcti-socket* package, for which the configure script does a lookup, does not have a dependency on it anymore ([since](#)), only on the new *marshal* package, which in turn does not have a dependency on the *sapi* package (but it actually seems to [incorrectly be named sapi](#), although, that's only the human-readable name, so it probably doesn't really matter).

```
tpm_tss_tss2.c:70:2: error: unknown type name 'TPM_ALG_ID'  
    TPM_ALG_ID supported_algs[TPM_PT_ALGORITHM_SET];  
    ^~~~~~
```

This and the rest of the errors are caused by [this commit](#), that is, the TPM_ prefix has to be replaced with TPM2_ where appropriate.

It looks like the current code is compatible with 1.x of tpm2-tss. Being compatible with the current master and 1.x will be quite ugly as it would require a lot of redefined constants/types. So abandoning backwards compatibility would definitely be easier. Not sure what Andreas' preference is.

#2 - 06.12.2018 10:36 - Tobias Brunner

- *Tracker changed from Issue to Bug*
- *Category set to build*
- *Status changed from Feedback to Closed*
- *Assignee set to Andreas Steffen*
- *Target version set to 5.7.0*
- *Resolution set to Fixed*

Support for the newer versions of the SAPI provided by tpm2-tss 2.x was added with [5.7.0 \(e74e920bbcec\)](#).