

strongSwan - Feature #2946

Support for ChaCha20-Poly1305 via OpenSSL

03.03.2019 07:28 - Glen Huang

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Tobias Brunner	Estimated time:	0.00 hour
Category:	libstrongswan		
Target version:	5.8.0		
Resolution:	Fixed		
Description			
<p>From the cipher suites doc it seems curve25519 support is only provided with the curve25519 plugin. But from the source code it seems openssl can also provide support if a recent enough version is used. Is the doc not up-to-date in this case?</p> <p>Another question is that openssl provides ChaCha20-Poly1305 support since version 1.1.0. And it seems strongswan never makes use of that. Is there any plan to be able to leverage openssl's ChaCha20 implementation?</p>			

Associated revisions

Revision 34766542 - 08.03.2019 15:56 - Tobias Brunner

Merge branch 'openssl-chapoly'

Adds support for ChaCha20-Poly1305 via OpenSSL.

Fixes #2946.

History

#1 - 04.03.2019 09:50 - Tobias Brunner

- Category set to libstrongswan
- Status changed from New to Feedback

Is the doc not up-to-date in this case?

Yep (see [5.7.2](#)).

Another question is that openssl provides ChaCha20-Poly1305 support since version 1.1.0. And it seems strongswan never makes use of that. Is there any plan to be able to leverage openssl's ChaCha20 implementation?

No, currently not.

#2 - 04.03.2019 17:58 - Tobias Brunner

- Tracker changed from Issue to Feature
- Subject changed from Openssl cipher support to Support for ChaCha20-Poly1305 via OpenSSL
- Target version set to 5.8.0
- Affected version deleted (5.7.2)

Another question is that openssl provides ChaCha20-Poly1305 support since version 1.1.0. And it seems strongswan never makes use of that. Is there any plan to be able to leverage openssl's ChaCha20 implementation?

No, currently not.

I quickly put together a patch, see the [2946-openssl-chapoly](#) branch.

#3 - 06.03.2019 06:43 - Glen Huang

Tobias Brunner wrote:

Another question is that openssl provides ChaCha20-Poly1305 support since version 1.1.0. And it seems strongswan never makes use of that. Is there any plan to be able to leverage openssl's ChaCha20 implementation?

No, currently not.

I quickly put together a patch, see the *2946-openssl-chapoly* branch.

Great stuff. Looking forward to it being merged.

#4 - 08.03.2019 15:57 - Tobias Brunner

- *Status changed from Feedback to Closed*
- *Assignee set to Tobias Brunner*
- *Resolution set to Fixed*