
Subject: OpenSSL encryption and hashing functions in U++

Posted by [koldo](#) on Fri, 07 May 2010 20:01:33 GMT

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Mindtraveller and me wanted to propose you to include OpenSSL encryption and hashing functions in U++.

Perhaps the adequate place would be package Web/SSL.

Functions to include there are now in AESStream bazaar package. They support for now:

- AES: AES-128/192/256 stream encryption
- SHA-2: SHA-224/256/384/512 string hashing

What do you think?

Subject: Re: OpenSSL encryption and hashing functions in U++

Posted by [koldo](#) on Tue, 11 May 2010 07:10:29 GMT

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Here I explain you some advantages of functions proposed:

- AESStream: It is an easy way to do strong encryption of Strings or files.
 - SHA-2: Actually U++ includes SHA-1 support. However, from Wikipedia: SHA-1 is being retired for most government uses; the U.S. National Institute of Standards and Technology says, "Federal agencies should stop using SHA-1 for...applications that require collision resistance as soon as practical, and must use the SHA-2 family of hash functions for these applications after 2010" Thanks to OpenSSL the SHA-2 implementation is very thin and simple.
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Subject: Re: OpenSSL encryption and hashing functions in U++

Posted by [Mindtraveller](#) on Tue, 11 May 2010 16:28:41 GMT

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koldo, AFAIR you suggested to switch to some other library with less restrictive license. I'd like to ask Mirek what he thinks about adding new classes to Web/SSL and receiving our efforts on switching from OpenSSL.

Subject: Re: OpenSSL encryption and hashing functions in U++

Posted by [koldo](#) on Wed, 12 May 2010 05:48:51 GMT

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Mindtraveller wrote on Tue, 11 May 2010 18:28koldo, AFAIR you suggested to switch to some other library with less restrictive license.

I'd like to ask Mirek what he thinks about adding new classes to Web/SSL and receiving our efforts on switching from OpenSSL.

Hello Mindtraveller

he has to decide .

About using other library instead of OpenSSL, well, that is a second and secondary question. Why?: It exists a library called OpenTLS that wants to cover all OpenSSL features with a less restrictive license. However:

- OpenTLS seems to be in a preliminary state and it should have to be studied if it covers all options required by Web/SSL
 - OpenSSL license is not bad as it permits commercial and non-commercial use. However it is not completely compatible with GPL (<http://en.wikipedia.org/wiki/OpenSSL>)
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Subject: Re: OpenSSL encryption and hashing functions in U++

Posted by [Mindtraveller](#) on Wed, 12 May 2010 05:53:36 GMT

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If OpenSSL permits commercial use, I see no real need to change it with other library.
