# Encryption algorithm/library for .NET 2.0 + C++

Asked 16 years ago Modified 15 years, 7 months ago Viewed 2k times



I need a standard, Microsoft delivered, encryption library that works for both .NET 2.0 and C++. What would you suggest?



We find that AES is only offered in .NET 3.5 (and available in C++)



**4**3

We find that Rijndael is used in .NET 2.0 but not available in the standard C++ libraries.

If I am wrong (very good chance), can you point me in the right direction?

Worst case scenario, I suppose I can call the Rijndael algorithm from .NET using Plnvoke but I would rather have a native solution.

c++ encryption .net-2.0 aes rijndael

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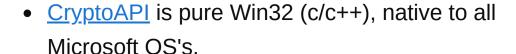
We successfully do a similar thing that I hope might help you:

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### C++ CryptoAPI







Use <u>Enhanced Cryptographic Provider</u>
 (MS\_ENHANCED\_PROV)



Use <u>Triple DES</u> ( calg\_3des ) algorithm

## .NET TripleDes Provider

• Use <u>TripleDESCryptoServiceProvider</u> on the .NET side.

#### **Side Notes**

- We avoid CAPICOM like the plague as the deployment nightmares that come with it are not worth the hassle.
- Byte order on the .NET side can come into play at times. For example, to consume a key that is generated on the C++ (CryptoAPI) side, you need to

reverse the byte array prior to using it within the TripleDESCryptoServiceProvider.

If you would like more details please leave a comment and I can give more. Happy crypto!

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answered Dec 1, 2008 at 19:36

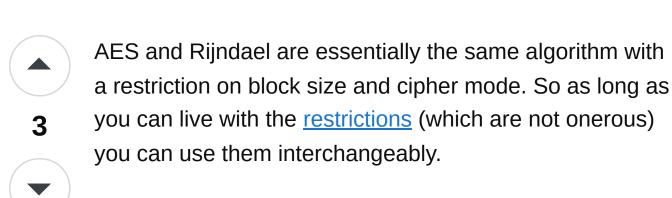


Thank you. I will look into this... and of course, any other information you could provide, I would be delighted.

- Jason Dec 1, 2008 at 20:18

don't forget the AES Crypto Provider - also available as part of Windows. <a href="mailto:msdn.microsoft.com/en-us/library/aa386979(VS.85).aspx">msdn.microsoft.com/en-us/library/aa386979(VS.85).aspx</a> It delivers AES algorithms, which is what the OP wanted I think. – Cheeso May 13, 2009 at 15:36

True, but it's worth noting that AES algorithms are not supported on Windows 2000/NT. – Scott Saad May 14, 2009 at 14:50



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answered Dec 1, 2008 at 17:25

Stephen Martin

9,645 • 3 • 28 • 36



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answered Dec 1, 2008 at 17:16

Brian

25.8k • 18 • 86 • 178



Windows includes a C/C++ AES encryption library, as part of the <u>AES Cryptographic Services Provider</u>. It is suitable for use from within native C/C++ applications.



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answered May 13, 2009 at 15:37

Cheeso
192k • 105 • 483 • 734



