



[www.CFXWorks-Enterprise.com](http://www.CFXWorks-Enterprise.com)

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**CryptoXpress™ SDK:** A toolkit that can be used to custom develop application layer cryptography solutions offering “strong encryption”, message digests (digital signatures), and several industry specific security features. The CryptoXpress SDK produces compatible results across many platforms including Windows, Linux (Red Hat and SUSE), HPUX, Solaris, and IBM's xSeries, pSeries, zSeries and iSeries. Implementation of the supported cryptography algorithms is verified using test vectors published by the National Institute of Standards and Technology (NIST).

**Encryption/Decryption Algorithms Supported:**

- |                               |   |   |
|-------------------------------|---|---|
| • AES 128-bit encryption      | AES128/PKCS5Padding/ECB<br>AES128/NoPadding/ECB | AES128/PKCS5Padding/CBC<br>AES128/NoPadding/CBC |
| • AES 256-bit encryption      | AES256/PKCS5Padding/ECB<br>AES256/NoPadding/ECB | AES256/PKCS5Padding/CBC<br>AES256/NoPadding/CBC |
| • TripleDES (3DES) encryption | 3DES/PKCS5Padding/ECB<br>3DES/NoPadding/ECB     | 3DES/PKCS5Padding/CBC<br>3DES/NoPadding/CBC     |

**Message Digest Algorithms Supported:**

- MD5
- SHA1
- HMACMD5
- HMACSHA1

**Selected credit card security features support:**

- LUHN formula (Mod 10) account number validation
- Account number masking in accordance with credit card processing industry standards

**United States Postal Service® (USPS) Address Information**

**Services APIs support:**

- Support for USPS' Address verification APIs
- Support for USPS' Zip Code lookup APIs
- Support for USPS' City/State lookup APIs

**Benefits:**

- Encryption complexity reduced to 6 best practices deployment scenarios.
- Message digest complexity reduced to 4 best practices deployment scenarios.
- IBM Certified across numerous IBM and non-IBM H/W & S/W platforms.
- Consistency verified across all supported environments.
- Correctness of SDK implementation verified using NIST test vectors.
- Resource & skill level minimized by use of “best practices” scenarios.
- Product priced to be affordable in SMB market.



## Customer Profile:

This product is intended for use by organizations that need to custom develop their own cryptography solutions that require cross platform compatibility and results that conform to NIST standards. These organizations might include:

- Organizations subject to SOX, PCI/CISP, HIPAA, SEC or any other government or industry regulation requiring "strong encryption".
- Merchants accepting and processing credit cards.
- High visibility enterprises deploying online services.
- Organizations processing identity information.
- Government agencies processing sensitive information.

**IBM Case Study:** (<http://www-306.ibm.com/software/success/cssdb.nsf/cs/JKIN-6MNL3?OpenDocument&Site=gicss67retl>):

- ISV [Curbstone Corporation](#) integrates CFXWorks' CryptoXpress SDK product to achieve PCI/CISP compliance.

## IBM Podcast:

[http://www-304.ibm.com/jct09002c/isv/marketing/industrynetworks/podcasts/curbstone\\_cfxworks.mp3](http://www-304.ibm.com/jct09002c/isv/marketing/industrynetworks/podcasts/curbstone_cfxworks.mp3)

## Name Change:

Note that previous releases of this product were called **CRYPTOeServer**.

## Pricing:

Platform:	Toolkit:	Run Time:
Single Developer License	\$2450.00 US	No Charge
Addition Developer License	\$815.00 US	No Charge
Annual Maintenance	20% of license fee	N/A

