

Product Overview Encryptionizer[®] DE

NetLib[®] Encryptionizer[®] DE (Desktop Edition) can be integrated into an application to add an additional layer of security separate from Windows security and the application's security. It can be deployed with little or no programming and without adding any administrative overhead, which will be greatly appreciated by today's over-stressed database and security administrators.

Automatic Whole File Encryption – The purpose of whole file encryption is to make a file unusable if it is stolen, copied, downloaded, lost, or otherwise improperly accessed outside of the application. It is fast, unobtrusive, requires little or no programming, no administration, and can usually be deployed in a couple of hours or less. Whole file encryption uses completely on-the-fly, dynamic encryption and decryption. Data is never decrypted on disk, only in memory as requested by the application. In addition, data is automatically encrypted before being written back to disk.

Column/Field Encryption APIs – Column (field) encryption APIs are also available. Their main purpose is to protect specific columns from users/groups that normally need access to the underlying table. A typical example is allowing all users to browse the customer table, but only certain users to decrypt the credit card column. Column encryption APIs are extremely easy to use in most Win32 platforms and can be used anywhere that built-in functions can be used.

In addition to column encryption, there are APIs for encrypting and decrypting files. For example, if an Access database links to Word or Excel documents, you can encrypt the external documents in addition to the Access database.

Scalability

All three versions of Encryptionizer are interoperable. This allows you to secure data all the way from the primary server down to the desktop/laptop. For example, a mobile sales-force might have portions of a database replicated on a laptop that is later synchronized with a database on the server. Databases can even be securely distributed on CD/DVD or via the Internet (digital content distribution). Encryptionizer can easily be bundled into an application: Developers can protect their own intellectual property while enterprise users can create their own customized installations scripts for easy, enterprise-wide deployment. An available distributable wrapper allows easy, secure digital content distribution with almost any application, custom or commercial, with or without source code.

Benefits/Features

- *Quick and easy to deploy*
- *No administration*
- *Little or no programming (optional APIs)*
- *Multi-processor and cluster safe*
- *Industry-standard encryption algorithms*
- *Allows separation of roles*
- *Scalable across the enterprise*
- *Seamless and flexible*
- *Easy to bundle with applications*

System Requirements

Languages/Platforms Supported

Encryptionizer supports most Win32 languages and platforms, including the following:

Microsoft

- Visual Studio .NET
- Access
- Office
- Visual Basic (VB)
- Visual Basic for Applications (VBA)
- Visual C/C++
- Visual FoxPro (VFP)
- Visual J++

Borland

- C++ Builder
- Delphi
- JBuilder

IBM

- VisualAge C++
- VisualAge for Java
- VisualAge Generator

Miscellaneous

- Crystal Reports
- PowerBuilder
- Visual dBase
- xBase++ (Alaska)

Windows Versions (x86 and x64 versions supported)

- Windows 2008
- Windows 2003
- Windows 2000
- Windows 7
- Vista
- Windows XP

File Systems Supported

- FAT
- FAT32
- NTFS
- CDROM/DVD
- DFS

Network Clients Supported

- Microsoft Client for Microsoft Networks
- Microsoft Client/Gateway for NetWare
- Novell Client for NetWare (Client32)

Maximum Supported Database Size

- 1 Terabyte (NTFS)
- 4 Gigabytes (other)

Algorithms Supported

- AES (up to 256 bits – 128 bits int'l)
 - DES
 - Triple DES (3DES) with two keys
 - Triple DES (3DES) with three keys (US only)
 - Blowfish (up to 256 bits – 128 bits int'l)
 - LLE (up to 256 bits)*
- * The current release of Encryptionizer DE supports only LLE for *dynamic* file encryption/decryption. For other algorithms a file must be decrypted before being used.

Why only a few algorithms?

Some encryption products advertise long lists of algorithms. We plan to support only the few that have gained wide acceptance in business, finance, industry and government.

We also consider special requests from customers.

Performance

- **Whole file encryption** – negligible impact on performance.
- **Column encryption** – 5-8% degradation on access/update of an encrypted column/field in typical transactions.
- **Memory footprint** – very small: non-paged portion less than 12K.

Other Encryptionizer® Products

Encryptionizer for SQL Server

Encryptionizer encryption software delivers server-side data encryption for Microsoft SQL Server databases and columns. It provides an additional layer of security on top of Windows security and SQL Server security, in case perimeter defenses are breached. It secures data on servers as well as on backup media. Combined with Encryptionizer for SQL Express, Encryptionizer secures distributed databases all the way down to the workstation or laptop. It supports SQL Server 2008, SQL Server 2005, and SQL Server 2000 -- Enterprise, Standard, Web, Workgroup and Express Editions.

Encryptionizer for Application Developers

Our developer-friendly transparent encryption software can help protect client data accessed and stored by your applications as well as the code of your applications. Developers who build applications for commercial or internal distribution can easily layer Encryptionizer over their databases providing transparent data encryption protection for those databases, as well as for the intellectual property built into their applications.

Customers

Our customers are representative of a broad range of industries including:

- Financial Services
- Payments/Credit
- Information Technology
- Human Resources
- Insurance
- Healthcare
- Manufacturing
- Retail
- Government
- Education
- Professional & Business Services

Support

Our **Gold** level of support includes direct contact with a support engineer via telephone and email, 24x7 emergency response services as well as software patches and updates.

Our **Silver** level of support includes both direct contact with a support engineer via email, as well as software patches and updates.

Pricing

Pricing is available upon request.

About NetLib

Since 1986 NetLib has been producing award-winning data security, connectivity and productivity-enhancing software for database developers and enterprise users.

Our software is used by thousands of organizations worldwide. These include Fortune 1000 corporations, governmental agencies, independent consultants and numerous small and medium-sized businesses. NetLib is dedicated to providing top-notch software and technical support for mission-critical applications.

What our Customers are Saying...

- *“Everything went well. HR loves their ‘super-secret’ database”*
- *“Specifically, I setup 100 concurrent connections that repeatedly either inserted (1,000,000) or selected records with encrypted data. At the same time I ran encrypt_column against a table with 100,000 records. The processes worked flawlessly.”*
- *“I was starting to think that implementing Encryptionizer, in the [short] amount of time we have left to wrap up this project, wasn't going to be feasible. Things are looking up.”*
- *“It is really a great product, maybe only one on the market [of its kind]”*
- *“Your product worked perfectly as advertised. It was easy to install and use.”*

© Communication Horizons LLC.

NetLib and **Encryptionizer** are Registered Trademarks of Communication Horizons LLC.
US Pat. 7,069,591. International patents pending.