



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 – Also included are optional column (field) encryption APIs. Their main purpose is to protect specific columns from users/groups who 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

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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)

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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)
- DES-ECB
- DES-ECB with two keys
- DES-ECB 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: nonpaged portion less than 12K.

Support

Standard (business hours) or 24/7 support is available.

Pricing

Pricing available on request. Licensed primarily through OEM or volume licensing. Per-seat or royalty-free distribution plans are available. Time-limited evaluation versions are available at no charge by filling out the form on our web site, www.netlib.com.

Companion Products

- **Encryptionizer for SQL Server** and **Encryptionizer for MSDE** offer server-side encryption for SQL databases. It is interoperable with Encryptionizer DE allowing you to secure data all the way from the primary server down to the desktop/laptop.
- **Encryptionizer DE/16** for Win16 legacy applications. Supports Win16 applications running on NT/9X platforms as well as Windows 3.1 and Windows for Workgroups 3.x.



References

Here are some larger organizations recently added to the list of satisfied customers:

- business payroll service
- business restructuring
- CORBA software vendor
- credit risk analysis
- educational testing coaches
- electronic sensors manufacturer
- HI/hardware distributor
- HR software vendor
- international freight shippers
- mapping software vendor
- motor vehicle registration services
- US federal agency

About Communication Horizons



Since 1986 Communication Horizons 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. Communication Horizons is dedicated to providing top-notch software and technical support for mission-critical applications.

Recent Customer Comments

- "The Encryptionizer software is working perfectly. Thanks very much."
- "I can only say that these folks are great; and have made my life easier by immeasurable amounts!"
- "It has the easiest, most transparent method of encrypting a databases."
- "The initialization of Encryptionizer went very well. I was very pleased as was our IT staff that did the internal audit."
- "NetLib Encryptionizer is great and so is its' support."
- "I have always found the team to be knowledgeable, approachable and willing to go the distance to make it work for us under real-life conditions."

NetLib Encryptionizer Timeline

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| 1989 | Released DOS version of NetLib incorporating file and field encryption capabilities. |
| 1992 | Released Win16 version of NetLib |
| 1996 | Released Win32 version of NetLib |
| 1998 | Released NetLib Encryptionizer DE (Desktop Edition) |
| 2000 | Released Encryptionizer for SQL Server |
| 2001 | Released Encryptionizer for MSDE |
| 2005 | Released Col-E Manager |
| 2008 | Released Encryptionizer x64 |

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