## Introduction

**CryptoExpert** is a real-time encryption system providing secure storage for documents, commercial data and private files.

It uses the following encryption world-known algorithms: Blowfish, CAST, DES, 3DES, and it provides excellent protection against unauthorized data access.

**CryptoExpert** is easy to use and install, and totally transparent for all Windows applications, thus providing secure <u>virtual drives</u> to store your important files.

Main Features Requirements Limitations Versions

## **CryptoExpert Features**

### Easy in Use

Once the <u>virtual drive</u> drive is loaded, you can copy, move, delete files and folders as if you worked with any other hard disk. Once unloaded, the virtual drive is disappeared from your system and you are to enter the password to mount it again. When it is unloaded, CryptoExpert' high security encryption technology ensures that your data is safe (it is stored in encrypted form inside the encrypted container file).

#### **Military grade Security**

Once written to the CryptoExpert's container file, your data is never stored in the 'open' state. CryptoExpert uses published strong encryption methods to make sure no one can open, copy or read your important files.

It is very important for a trusted security system to use open published encryption methods to allow experts to verify its reliability.

CryptoExpert utilizes the following encryption algorithms:

the CAST algorithm with 128 bit key length (was developed by Carlisle Adams. Its description can be found in  $\frac{\text{rfc}2144}{\text{rfc}2144}$ )

• the Blowfish\* algorithm with 256 bit key length (was designed by Bruce Schneier in 1983 and is is very popular now)

TRIPLEDES\* with 168 bit key length (It is approved by NIST as an encryption standard. Its description can be found in <u>FIPS 46-3</u>)

· AES\* with 256 bit key length (new USA's industrial standard for encryption)

\* Only in Pro version.

Note: Lite and PE versions have CAST 128 bit only

#### No "back door" in the software

No access possible under any circumstances. If you do not remember the password you cannot access the encrypted contents. There is no special procedure, secret code, or hidden entry method to fall back on.

### **Using in Network**

It is possible to use any network drive to create and access file containers:

- Mount remote containers
- Share virtual drives between the network users in the same way as other logical hard drives on your computer

# **CryptoExpert Requirements**

CryptoExpert requires the following minimum computer configuration:

### Hardware

- · IBM or compatible
- Minimum 5 MBytes of free HDD space to install and run the CryptoExpert software.

### Software

· Microsoft Windows NT version 4.0 (Workstation or Server), or Windows 2000, or Windows XP

# **CryptoExpert Limitations**

#### Local hard drives and External drives

There are no limitations in the number or type of Local and External Drives used as storage media for CryptoExpert's encrypted containers. SCSI and IDE hard drives, removable media drives, magneto-optical devices, RAM drives, CD-ROM drives and others may be used.

#### Virtual drives

You can use any number of virtual drives in the current release of CryptoExpert simultaneously.

#### Maximum Size Of CryptoExpert's container

Windows NT/2000/XP: Maximum size of encrypted drive mapped to a correspondent container file is 64 Gbytes (Pro version), 500 Mb (PE version), 20 Mb (Lite version).

#### Minimum Size Of CryptoExpert container

Minimum size of CrypotExpert encrypted drive is 19 Kb.

## **CryptoExpert Versions**

CryptoExpert has three branches: Freeware (Lite), Personal (PE) and Professional (Pro).

#### CryptoExpert 2005 Lite

LITE version can be used at home only, not in business

LITE version has CAST 128 bit encryption algorithm to protect your files on virtual drive on the fly LITE version creates encrypted container(s) of 20 Mb in size

**LITE** version able to mount **only one container** as virtual drive at the time (but it does not mean that you cannot have many other containers in unmounted state).

#### Freeware

#### CryptoExpert 2005 PE

PE version can be used at home only, <u>not in business</u>
PE version has CAST 128 bit encryption algorithm to protect your files on virtual drive on the fly
PE version creates encrypted container(s) up to 500 Mb in size
PE version able to mount only one container as virtual drive at the time (but it does not mean that you cannot have many other containers in unmounted state).
It is impossible to use PE version in network environment
One copy costs US\$39.95

#### CryptoExpert 2005 Professional

Professional version can be used in business environment and/or at home

Professional version has 4 encryption algorithms (AES, CAST, Blowfish, 3DES) to protect your files on virtual drive on the fly

Professional version creates encrypted container(s) up to 64+ Gb in size

**Professional** version able to mount **unlimited number of containers** as virtual drive at the time **Professional** version has support for **ePass 1000 USB** device to storage containers passwords. It is possible to mount containers using this device, without entering password

It is possible to use PRO version in the **network** environment: share virtual drive between network users and load containers from other network drives.

### One copy costs US\$59.95

Volume discounts available

To check what version do you use, click the menu command **Help->About** in the CryptoExpert. To download another version, visit website <u>http://www.cryptoexpert.com/</u>

# Why encrypt?

There are a number of sophisticated methods and a wide range of equipment by which all your data is accessible if your PC is not protected specially. Encryption is the only way to protect your important files.

Hence, encryption, using CryptoExpert software, is a good choice to protect your privacy.

## What is encryption?

Encrypting data means getting it transformed into a string of characters undecipherable by others.

What actually happens is that by using a secret-key i.e. the equivalent of a code (see glossary), the cryptography system transforms your data into gibberish. If the scrambling of the data is done properly, the original file can only be unscrambled and read by someone who knows the secret key i.e. the code used to encrypt the file.

Encrypting a file ensures that even if someone gets access to your computers/he would not be able to read the data stored there. Encrypted files can safely be sent by e-mail or placed on a network with the assurance that the data can be read only by those who were meant to have it.

Basic encryption systems have been used to protect secrets for many centuries. But today's encryption methods are far more sophisticated and reliable than ever before because the encryption code itself is a very complex computational transformation that is only feasible with desktop machines in the early 1990s

## How does encryption work?

When you use encryption, your data gets converted into meaningless symbols by using a key, which is nothing but the code that helps you to encrypt or decrypt data.

The more random the method of key conversion, the stronger the encryption will be. A pass phrase generally needs to be easy to remember, so it has significantly less randomness than its length suggests. For example, a 20-letter English phrase, rather than having  $20 \times 8 = 160$  bits of randomness, only has about  $20 \times 2 = 40$  bits of randomness.

So, cryptographic software converts a pass phrase into a key through a process called ``hashing" or ``key initialization." (see glossary)

At the heart of the process is the algorithm (see glossary), which is devised so as to make deciphering the encrypted file impossible without using the secret key. Some of the popular encryption algorithms include Blowfish, DES, Diffie-Hellman, IDEA, RC4, RSA and Skipjack. Many of these use 64 and 128 bit encryption systems i.e. devise keys of 2\*64 or 2\*128 length.

The Blowfish encryption algorithm on which CrypotExpert is based was specially designed to encrypt data on 32-bit microprocessor. It is significantly faster than DES and GOST when implemented on 32-bit microprocessors, such as the Pentium or Power PC.

CryptoExpert software uses the Blowfish in Cipher Block Chaining Mode with 256-bit key length.

## Is encryption safe?

An ordinary user may find it difficult to unscramble even a simple algorithm. However, experts using sophisticated methods can employ a number of means to break an algorithm. The most common of these is "brute force" wherein a number of computers are simultaneously employed to break the code by a "trial and error" system which physically checks all possible combinations.

However, a well developed encryption system can withstand even such brutal attacks. Encryption based on the algorithms mentioned above are generally

immune to these kinds of attack assuming that no backdoors exist in the programme. Calculations show that the period of time required to crack them through brute force is gigantic. This table will give an idea of the dimensions.

2 to power of	Approximates to
30	Age of planet earth (in years)
33	Probability of being killed by a lightning (per
61	Lifetime of universe in seconds
170	Amount of atoms on our planet
223	Amount of atoms in our galaxy
446	Amount of possible keys used by CryptoExpert
2048	Amount of possible keys

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The probability of being killed by a lightning is  $2^{33}$  to 1, this is about 8.5 billion to 1.

Note: 128 bit keys generally provide maximum security. For most private and commercial applications 60 bit key length is sufficient. Only 56 bit and below keys can theoretically be broken by the "brute force" method.

To see how difficult this is let us look at estimates of the time required using brute force to break symmetric ciphers assuming that:

i. Every single computer (estimated at 3\*108) on the earth is used full time.

ii. Every computer has the processing power of a PII 450Mhz. Then a single (3DES) key can be brute forced in an average of 457,351,814,728 years.

The table below shows how long the various types of keys remain secure for. A number of assumptions are made:

i. The number of computers in the world is equal to 100 Billion (that's ten for every single person on earth in the year 2014 - there are expected to be 10 billion people alive in 2014).

ii. Each of the computers obey Moore's law (the power and speed of computers doubles approximately every 18 months) for the entire period of cracking. (NOTE: this assumption may break current theories on speed of light, quantum physics etc). In reality, Moore's Law is predicted to become

infeasible within 10 years or so.

Cipher Key Size 500	Effective e	10		Years unti feasible with 100,000	l break
500		10		,	
Superco	mputers	Billion		Deep Crack	
				computers	machines
				(PII 450)	
3DES	112		61	44	45
CAST	128		85	65	69
IDEA	128	8	35	66	69

## **Quick start**



When you run CryptoExpert, the following window will appear:

Picture 1. Usual program window

There are three panes in the CryptoExpert main window - 'Folders' on the left and two file panes on the right.

First of all, you are to create a container file - the secure storage of your confidential information. Choose the "Container->New container..." menu command or just click the "New" button on the main toolbar.

#### Read How to create container

When you have created a container(s), you can see all your containers in the <u>"Encrypted Containers"</u> pane. Click the "Drives" button. Then click the "Containers" icon.

🖘 CryptoExpe	rt 2004 Professiona	al Trial						
<u>C</u> ontainer <u>F</u> ile	<u>V</u> iew <u>C</u> ommands <u>O</u> pt	ions <u>H</u> elp	I					
-	💰 🟅		Ð		1 🌮	<b>S</b>	2	8
New	Mount Dismour	nt	Up	Refresh!	Copy/Mo	ove Email files	Remove	Wipe
Folders	× Encrypted Containers	s						G:\
	File 🛆	Size	Mount	ed Letter	AutoMount	Path		Name
	🐌 111.cc	4 MB	No	ANY	No	\\Anya\C\		🚞 agreements
	🤹 🕹 documents.cc	10 MB	No	ANY	No	\\Anya\C\		🚞 declarations
Containers	🤹 🕹 documents.cc	10 MB	Yes	G:	No	D:\work\docum	ents\	🚞 drpott
	🐌 newtest.cc	20 MB	No	ANY	No	D:V		📄 drpottimages
	🤹 🕹 photos.cc	100 MB	No	ANY	No	D:\work\docum	ents\	🚞 magazines
	🔹 🦾 test.cc	5 MB	No	ANY	No	\\Anya\C\		🚞 parex vcard
								📄 xls
All Drives								🛛 🔟 800phone.htr
AI DIIYOS								🔟 invoice.htm
								🕙 800.doc
								anketa or par
Folders Drives	• •						>	<

Picture 2. Activated "Encrypted Containers" pane.

In this pane you can see the containers and their state.

Now, find a newly created container file in this pane. If you cannot locate this container here, read <u>How to</u> <u>add container(s) to "Encrypted Containers Pane"</u>

Then, have a look if this container is already mounted. In the "Mounted" column you will see the container mount state. If it is not mounted, just double click the container and enter the password to mount it.

#### See also:

How to delete a container(s) from the "Encrypted Containers" pane How to mount a container from the "Encrypted Containers" pane How to dismount a container from the "Encrypted Containers" pane

## **Basic Concepts of Program Interface**



CryptoExpert main window has three panes: Folders pane, First Pane and Second Pane.

Picture 1. Usual program window

**Folders Pane** is used for navigation through folders, drives, and network drives. It has two modes: <u>Folders Mode</u> and <u>Drives Mode</u>. Read more about Folders Pane

There are also two other panes: First Pane and Second Pane.

Both First and Second Pane have two modes: *<u>Files mode</u>* and <u>*"Encrypted Containers"*</u> mode. Read more about <u>Files Pane</u> / <u>"Encrypted Containers"</u> Pane

**First Pane** or **Second Pane** can be active or inactive. To make it active, just click this pane. The Active files/"Encrypted containers" pane receives all commands from the folders pane. For example, when the Folders Pane is in the <u>Folders Mode</u>, you can click any folder in this pane and change the root folder for the active files pane.

You can set different root folders for all two files panes (*for ex. FirstPane: c:\windows, and SecondPane: d:\mydocuments*) and copy/move files from one pane to another.

<u>Another Example:</u> You can copy files from one pane (folder on your hard drive) to another pane (CryptoExpert virtual drive).

## About "Encrypted Containers" pane

Each files pane has two modes: "Encrypted Containers" and "Files".

When you activate the containers mode, you will see the list of your favourite containers in the active pane.

File 🛆	Size	Mounted	Letter	AutoMount	Path
<b>b</b> 111.cc	4 MB	No	ANY	No	\\Anya\C\
b documents.cc	10 MB	No	ANY	No	\\Anya\C\
b documents.cc	10 MB	Yes	G:	No	D:\work\documents\
la newtest.cc	20 MB	No	ANY	No	D:\
b photos.cc	100 MB	No	ANY	No	D:\work\documents\
🍒 test.cc	5 MB	No	ANY	No	\\Anya\C\

Picture 1. "Encrypted Containers" mode in files pane.

This pane has several columns.

- The File column has the name of the file container.
- The **Size** column has the file container size in Megabytes
- The Mounted column shows the container's state if it is mounted as the virtual drive or not
- The Letter column has the virtual drive letter. If the container is already mounted as the virtual drive, this column shows the drive letter of this mounted drive. If the container is not mounted, this column shows the drive letter which will be assigned to the container when mounted.
- The AutoMount column shows the automount settings for the container. If "Yes", the container will be mounted at the next Windows Start-Up. To change the state, right click the container and select "Properties".
- Path column has the full path of the container. It can be local or network path.

# How to mount a container

To mount a container, just double click it (make sure that active files pane is in the "Encrypted Containers" mode)

Or right click it and select the **"Mount"** command in the popup menu

File 🗠	Size Mounted	l Letter	AutoMount	Path
111.cc	4 MB No	ANY	No	\\Anya\C\
🆕 docume	na Mount	NY	No	\\Anya\C\
🆕 docume	add to containers list		No	D:\work\documents\
🍃 newtes		NY	No	D:A
🍃 photos.	🧼 Remove Container	NY	No	D:\work\documents\
b test.cc	Go to file location	١NY	No	\\Anya\C\
	A Container Properties			

Then enter the password in the password dialog:

Enter p	assword		3
@ <b>Q</b> _	Container:	documents.cc	
	Location:	d:\work\documents\	
	Password:		2
		Show Password	
		OK Cancel Properties	

### See Also

Read more about Password Dialog

# How to dismount a container

To dismount a <u>virtual drive</u>, find the mounted container in the "Encrypted Containers" pane. Make sure it is mounted ("Yes" in the **Mounted** column) and double click it.

documents.cc 10 MB Yes G: No D:\work\docume newtest.cc 20 MB No ANY No D:\
documents.cc 10 MB Yes G: No D:\work\docume pewtest.cc 20 MB No ANY No D:\
anewtest.cc 20 MB No ANY No D:\
B
🕼 photos.cc 100 MB No ANY No D:\work\docume
Lest.cc 5MB No ANY No \\Anya\C\

Picture 1. "Encrypted Containers" mode in files pane.

You can also dismount a container from the popup menu. Right click on this container and select the **Dismount** command in the popup menu.

File 🛆	Size	Mount	ed Letter	AutoMount	Path	
documents documents newtest.c bphotos.cc test.cc	4 MB acc 10 MB	No No V		AutoMount No No No No No	Path \\Anya\C\ D:\work\documents\ D:\ D:\work\documents\ \\Anya\C\	
<			Ш			>

Picture 2. How to dismount drive from context menu

# How to add containers here

	4 MB			AutoMount	Path
documents cc		No	ANY	No	\\Anya\C\
accunctits.cc	10 MB	No	ANY	No	\\Anya\C\
🍒 documents.cc	10 MB	Yes	G:	No	D:\work\documents\
🍒 newtest.cc	20 MB	No	ANY	No	D:V
b photos.cc	100 MB	No	ANY	No	D:\work\documents\
£.	5 MB	No	ANY	No	\\Anya\C\

Picture 1. "Encrypted Containers" mode in files pane.

If you want to add a container to the "encrypted containers" list, right click on the white space and select the **"Add container here"** command in the popup menu.

Size	Mounted	Letter	AutoMount	Path
4 MB	No	ANY	No	\\Anya\C\
10 MB	No	ANY	No	\\Anya\C\
10 MB	Yes	G:	No	D:\work\documents\
20 MB	No	ANY	No	D:V
100 MB	No	ANY	No	D:\work\documents\
5 MB	No	ANY	No	\\Anya\C\
	4 MB 10 MB 10 MB 20 MB 100 MB	4 MB No 10 MB No 10 MB Yes 20 MB No 100 MB No	4 MB No ANY 10 MB No ANY 10 MB Yes G: 20 MB No ANY 100 MB No ANY	4 MB No ANY No 10 MB No ANY No 10 MB Yes G: No 20 MB No ANY No 100 MB No ANY No

Picture 2. Adding container to the containers list

# How to add remove containers

To remove a container from the container list, select it, then right click it and select the **"Remove container"** command in the popup menu.

File 🛆	Size	Mounted	Letter	AutoMount	Path
▶111.cc	4 MB	No	ANY	No	\\Anya\C\
b documents.cc	10 MB	No	ANY	No	\\Anya\C\
b documents.cc	10 MB	Yes	G:	No	D:\work\documents\
newtest.cc	20 MD	Ma		No	D:\
🍃 photos.cc 🛛 🛸	, Mount			No	D:\work\documents\
🎍 test.cc 🛛 👌	Add to con	tainers list		No	\\Anya\C\
	Remove Co	ontainer			
	Go to file lo	cation			
-	Container I	properties			

Picture 1. Removing container from the the containers list

Then you are to confirm the container deleting:

Delete Containers	
Would you like to delete selected items?	
Delete both the Container icon and the Container file	
Yes No	

Check the box, if you want to delete the container file as well as the container from the list.

## How to change container's properties

File 🛆	Size	Mounted	Letter	AutoMount	Path
Ъ 111.cc	4 MB	No	ANY	No	\\Anya\C\
b documents.c	c 10 MB	No	ANY	No	\\Anya\C\
🍃 documents.c	c 10 MB	Yes	G:	No	D:\work\documents\
newtest.cc	20 MP	Ma		No	D:\
photos.cc	🝰 Mount			No	D:\work\documents\
test.cc	🖢 Add to con	tainers list		No	\\Anya\C\
	🥪 Remove Co	ontainer			
	Go to file lo	ocation			
-	🝰 Container I	Properties			

To change the container properties, select it, then right click it and select the **"Container Properties"** command in the popup menu.

Picture 1. Changing container properties

Now you can change the container properties:

Mount o	ptions	×
Container:	documents.cc	
Location:	\\Anya\C\	
	<ul> <li>Mount this container at Windows Start Up automatically</li> <li>Remember password for this drive (unsafe) IMPORTANT: password dialog will not be shown for this in future if you choose this option</li> <li>Assign Drive Letter</li> <li>Automatically (first free letter G:, H:, I:, etc)</li> <li>Fixed: H:</li> </ul>	OK Cancel container

Picture 2. Container Properties Dialog

Check the **"Mount this container at Windows Start Up Automatically"** option to mount this container at every windows start up.

Check the **"Remember password for this drive"** option if you do not want to enter the password every time to mount the container. It is unsafe, because anyone can mount this container without your permission. It is also unsafe, because the password is stored in the registry of your computer and can be read. When you uncheck this option, all the password records are removed from the registry.

#### Assign Drive Letter

Check the "Automatically" option if you want any free drive letter to be assigned to the virtual drive on

#### mount.

Check the **"Fixed"** option if you want to assign the specified drive letter only to the <u>virtual drive</u> on mount. Please mind, that the error message will be shown, if the drive letter is already used by another storage device.

## About file panes

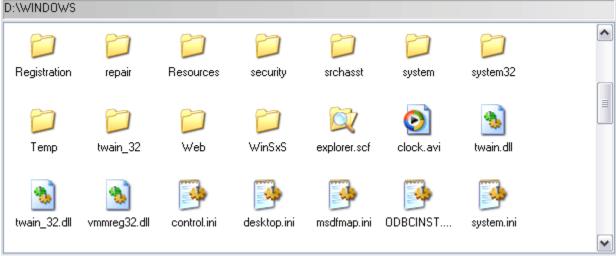
				(T
Name	Size	Type ∟	Modified	^
🚞 twain_32		Папка с файлами	04.02.2004 - 3:24:32	
🚞 Web		Папка с файлами	04.02.2004 - 0:38:48	
🛅 WinSxS		Папка с файлами	04.02.2004 - 3:27:49	
🔯 explorer.scf	80	Windows Explorer Comm	23.08.2001 - 15:00:00	
💿 clock.avi	81 KB	Видеозапись	23.08.2001 - 15:00:00	
👏 twain.dll	92 KB	Компонент приложения	23.08.2001 - 15:00:00	
🔊 twain_32.dll	45 KB	Компонент приложения	23.08.2001 - 15:00:00	
🔊 vmmreg32.dll	18 KB	Компонент приложения	23.08.2001 - 15:00:00	
🢁 control.ini	0	Параметры конфигура	04.02.2004 - 0:40:21	
🎒 desktop.ini	2	Параметры конфигура	23.08.2001 - 12:00:00	
🎒 msdfmap.ini	1 KB	Параметры конфигура	23.08.2001 - 15:00:00	
🚱 ODBCINST.INI	4 KB	Параметры конфигура	04.02.2004 - 0:40:03	V

Picture 1. Files pane. Detailed View

This pane has several columns.

The **Name** column contains the file or folder name The **Size** column contains the file size The **Type** column contains file type The **Modified** column contains the file creation date and time

You can switch it to the Large Icons mode. Select the View->Large icons menu command.



Picture 2. Files pane. Large Icons View

## How to remove files

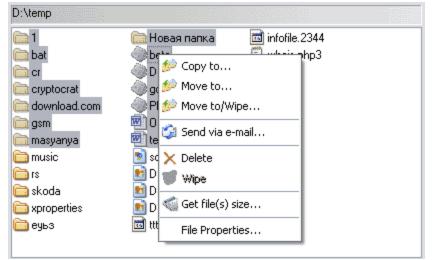
D:\temp 1 Новая папка 🔟 infofile.2344 //p3\_\_\_\_\_php3\_ 🗟 bat be--鯚 Copy to... D to f 🍈 g 🌮 Move to... 🚞 cryptocrat 🍥 Pl 💯 Move to/Wipe... download.com 0 🖾 🚞 gsm 🧊 Send via e-mail... 🕽 masyanya 🖾 te 🛅 music 🔊 sa 🗙 Delete 🔊 D en 🗐 🐨 Wipe 💽 D 🚞 skoda 📹 Get file(s) size... 🔊 D 🚞 xproperties 📷 ttt 🚞 еуьз File Properties...

To delete a file or several files or folders, select it with the mouse:

Picture 1. Files pane. Selected files

Then right click the selected files and select the **"Delete"** command in the popup menu. You can also click the **Delete** button on the main toolbar menu

## How to securely delete files



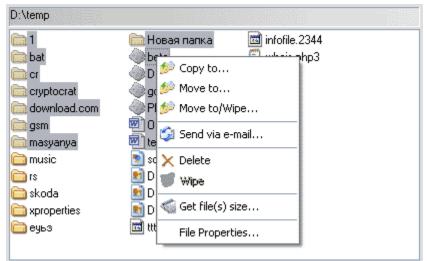
To wipe file or several files or folders, select it with the mouse:

Picture 1. Files pane. Selected files

Then right click the selected files and select the **"Wipe"** command in the popup menu. You can also click the **Wipe** button on the main toolbar menu

## How to send files via email

To send file or several files via email, select it with the mouse:



Picture 1. Files pane. Selected files

Then right click the selected files and select the **"Send via Email"** command in the popup menu. You can also click the **Email** button on the main toolbar menu

A new email will be instantly created in your email client and selected files will be attached to this mail.

## How to copy files between the panes

<u>C</u> ontainer <u>F</u> ile	⊻iew	⊆ommands	Options	He	lp				
-		3	5		2				5
New	Мо	unt Dis	mount	8	Up	Refresh	n!	Copy/Move	Email files
D:\music\krug					D:\temp				
📩 lsp. pdf		🛞 NT File S	ystem Int	6	<u>1</u>		$\bigcirc$	Новая папка	國 infofile.
🚴 Inside:ATL f	са	💮 osc2boo	k	ε	🚞 bat		0	beta	🗒 whois.j
🧼 аер2003		People W	'are	ε	🚞 cr		0	DlgEdit211	
i dp		price		ε	🚞 cryptocra	at	0	golub2	
lefficient_cp	p	💮 stroustro	up_se	ε	🚞 downloa	d.com	0	PDSCNTL	
exceptional		🛞 tsrh-wind	md5	ε	🚞 gsm		1	Orlushina Olga.doo	5
fusion_pack	_v11	🔘 UnderPre	essule_ne	. 6	🚞 masyany	a		test.doc	
tegion		💿 01_mihai	t_krugi	. 6	🚞 music		<u>)</u>	screensavers.gif	
lippman_cpg	🗑 lippman_cpp_prim 👩 01_mihail_krug 🦉			er 🗂			DSCN0015.jpg		
🍥 lippman_essential 👩 02_mihail_krugi 📢			🚞 skoda			DSCN0020.jpg			
moderncpp		💿 04_mihai	Lkrug	1	🚞 xproperti	es		DSCN0041.jpg	
more_excep	tional				🚞 еуьз		-	ttt	
			a ata d fila	>	<	1111			>

CryptoExpert has a two file panes interface to allow you to copy/move files between the panes.

Picture 1. Two files panes. Selected files in the active pane

For example, you can copy/move files from your hard drive to the <u>virtual drive</u>. Read <u>how to change the folder in the pane using the Folders pane</u>

To copy files from the file active pane to the inactive pane, select files in the active pane with the mouse and click the **Copy/Move** button on the main toolbar or just press **Ctrl-C**:

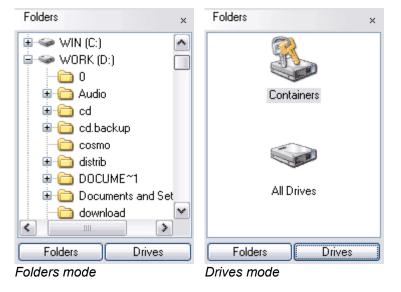
Copy/Mo	ove file(s) to			
	Destination Folder: D:\temp			
	Mode Copy Copying	O Move	◯ Move/Wipe	
			OK Cancel	

Picture 2. File copy dialog

In this dialog choose the copying mode: Copy, Move or Move/Wipe.

Please mind, that files will not be deleted when in the Move/Wipe mode, if the source and destination drives are the same. In this case files will just be moved.

## **About Folders Pane**



Folders pane has two modes: Folders and Drives

## Picture 1. Folders pane

To activate the Folders mode click the **Folders** button. To activate the Drives mode click the **Drives** button.

When you change anything in the folders pane, it sends commands to the active files pane.

For example, when you click any folder, the active files pane changes its root files folder When you click the Containers icon, the active files pane changes its mode to **"Encrypted Containers"**.

You can close the Folders Pane, selecting the **View / Show - Hide Folders Pane** menu command, or pressing the ` (apostrophe) key

# **Password Dialog**

Every time, when you mount a virtual drive, you are to enter the password.

Enter p	assword		×				
P		documents.cc d:\work\documents\					
	Password:						
	Show Password						
		OK Cancel Properties					

Picture 1. Password dialog

Check the Show Password box if you want to see your password.

Press the Properties... button to change the Container Properties.

Click the button right to the password field to type the password using virtual keyboard, to make sure no password characters will be intercepted by the keyloggers of any kind.

# How to copy files from one pane to another

<u>⊂</u> ontainer <u>F</u> ile	⊻iew	<u>C</u> ommands	Options	He	lp					
-		3	5		2			2		5
New	Mou	unt Dis	mount		Up	Refresh	ļ	Copy/Move	En	nail files
D:\music\krug					D:\temp					
🛃 lsp. pdf		🛞 NT File S	ystem Int	٤	<u> </u> 1		$\bigcirc$	Новая папка	e	infofile.
🉈 Inside:ATL.1	са	@osc2bool	s	ε	🚞 bat		0	beta	Ē	] whois.j
🧼 аер2003		🎯 PeopleW	are	ε	🚞 cr		0	DlgEdit211		
i 🖗 dp		🎯 price		ε	Cryptocr	at	0	golub2		
igent_cp	P	🎯 stroustrou	ıp_se	ε	🚞 downloa	id.com	Ì	PDSCNTL		
lexceptional	_срр	🎯 tsrh-winci	md5	ε	🚞 gsm		1	Orlushina Olga.do	)C	
lesion_pack	_v11	🎯 UnderPre	ssure_ne	. 🥲	🚞 masyany	a	1	test.doc		
tegion 👘		💿 01_mihai	<u>"trug</u> i	. 🧿	🚞 music		2	screensavers.gif		
ippman_cp	o_prim	💿 01_mihail	_krug	Ξ	en 🗂		<b>1</b>	DSCN0015.jpg		
🧼 lippman_ess	ential	💿 02_mihai	_krugi		🚞 skoda		5	DSCN0020.jpg		
moderncpp		💿 04_mihail	_krug		🚞 xproperti	ies	<b>5</b>	DSCN0041.jpg		
more_excep	tional	💿 05_mihail	_krugi	· 🧃	🚞 еуьз		1	ttt		
<			(	>	<					>

CryptoExpert has a two file panes interface to allow you to copy/move files between the panes.

Picture 1. Two files panes. Selected files in the active pane

For example, you can copy/move files from your hard drive to the <u>virtual drive</u>. Read <u>how to change the folder in the pane using the Folders pane</u>

To copy files from the file active pane to the inactive pane, select files in the active pane with the mouse and click the **Copy/Move** button on the main toolbar or just press **Ctrl-C**:

Copy/Mo	ove file(s) to			
	Destination Folder: D:\temp			
	Mode Copy Copying	O Move	◯ Move/Wipe	
			OK Cancel	

Picture 2. File copy dialog

In this dialog choose the copying mode: Copy, Move or Move/Wipe.

Please mind, that files will not be deleted when in the Move/Wipe mode, if the source and destination drives are the same. In this case files will just be moved.

## How to remove files

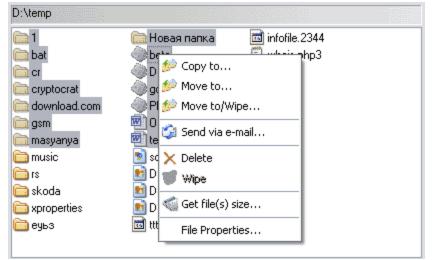
D:\temp 1 Новая папка 🔟 infofile.2344 //p3\_\_\_\_\_php3\_ 🗟 bat be--鯚 Copy to... D to f 🍈 g 🌮 Move to... 🚞 cryptocrat 🍥 Pl 💯 Move to/Wipe... download.com 0 🖾 🚞 gsm 🧊 Send via e-mail... 🕽 masyanya 🖾 te 🛅 music 🔊 sa 🗙 Delete 🔊 D en 🗐 🐨 Wipe 💽 D 🚞 skoda 📹 Get file(s) size... 🔊 D 🚞 xproperties 📷 ttt 🚞 еуьз File Properties...

To delete a file or several files or folders, select it with the mouse:

Picture 1. Files pane. Selected files

Then right click the selected files and select the **"Delete"** command in the popup menu. You can also click the **Delete** button on the main toolbar menu

## How to securely delete files



To wipe file or several files or folders, select it with the mouse:

Picture 1. Files pane. Selected files

Then right click the selected files and select the **"Wipe"** command in the popup menu. You can also click the **Wipe** button on the main toolbar menu

## How to create container

To create a new container select the "Container->New" menu command or just click the "New" button on the main toolbar.

Create CryptoExpert's Cont	ainer
<i>ي</i>	Welcome to the Create CryptoExpert's Container Wizard
	This wizard will help you create, encrypt, and mount encrypted container.
	Pick container location:
	To contniue, press Next
	< Back Next > Cancel Finish

Picture 1. Where to create a container file

Click the "Browse" button and select the folder to create the file. Also type the file name for the container. You can create the container in a usual folder or in a network folder. For example, "d:\data\ newcontainer.cc", "\\comp2\mydata\documents.cc"

Press the "Next>" button to set encryption options for this container file

Create CryptoExpert's Container				
	Step 2. Set Encryption Options			
	Encryption mode: Blowfish (256 Bit)			
	Hash function: MD5  SHA1			
	To contniue, press Next			
	< Back Next > Cancel Finish			

Picture 2. How to encrypt data in container

In the **"Encryption mode"** field you can choose the encryption algorithm for you to use to encrypt your data.

In the **"Hash function"** field you can choose the algorithm for you to use to convert your password to the random binary encryption key.

Press the "Next>" button to specify the container size



Picture 3. How to set container's size

On this page type your container size. For example, the 15 Mb value in the Size field means that you are going to create a container that will be able to store 15 Megabytes of data.

Press the **"Next>"** button to specify the container password:

Create CryptoExpert's Contain	ner
	Step 4. Choose a container name and password         Name:       My Safe         Password:       ********         Verify:       ********         It is very important that you choose a password that is easy for you to remember, but difficult for anyone else to guess. Do not use a dictionary word, even from foreign dictionary. We recommend to use a phraze or word atleast 8 chars. The max length is 10
	To continiue, press Next
	< Back Next > Cancel Finish

Picture 4. How to set container's password

In the **"Name"** field type the drive label. It will be visible for all applications. In the **"Password"** and **"Verify"** fields type the password used to encrypt the data inside the container file. This password will be used in the future to mount the container.

Press the **"Next>"** button to finish the container creation

Create CryptoExpert's Container							
	creating		t is ready f d Containe create it.				
	Mount cor	ntainer as drive af	ter creation				
	< Back	Next >	Cancel	Finish			

Picture 5. The latest page of this wizard

It is the last page of this wizard. Check the **"Mount container as drive after creation"** box to mount the container after creation. Press the Finish button and wait until the container is created.

### **From Program Menu**

Now, select the **Container / Mount...** menu command or click the Mount button on the main toolbar.

If no container file is selected in the active files pane you will be asked to find the container file.

Then enter the password to the mount container.

Enter p	assword		×
<b>P</b>	Container:	documents.cc	
	Location:	d:\work\documents\	
	Password:	10000000	$\otimes$
		Show Password	
		OK Cancel Properties	

Picture 1. Password dialog

Read more about Password Dialog

Now, you can copy files to this <u>virtual drive</u> using any favourite program, like Windows Explorer, Windows Commander, Norton Commander or any other (or use the CryptoExpert program to copy/explore files).

### From "Encrypted Containers" Pane

To mount a container, just double click it (make sure that active files pane is in the "Encrypted Containers" mode)

Or right click it and select the "Mount" command in the popup menu

$File  \bigtriangleup$	Size	Mounted	Letter	AutoMount	Path
111.cc	4 MB	No	ANY	No	\\Anya\C\
🍃 docume	🚕 Mount		NY	No	\\Anya\C\
🍃 docume			NY.	No	D:\work\documents\
🍃 newtes			NY .	No	D:\
🍃 photos.	🖏 Remove Containe	r	νNY	No	D:\work\documents\
🍃 test.cc	∎ test.cc Go to file location		٨Y	No	\\Anya\C\
	🚕 Container Propert	ies			

Then enter the password in the password dialog:

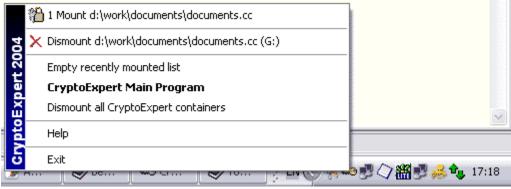
Enter p	assword		3
@ <b>Q</b> _	Container:	documents.cc	
	Location:	d:\work\documents\	
	Password:		2
		Show Password	
		OK Cancel Properties	

#### See Also

Read more about Password Dialog

### From Tray Menu

When you click the program tray icon, the menu will appear.



Picture 1. Tray menu

This menu has the recently mounted containers.

So, to mount a container, select this container in the list

### **From Command Line**

To mount the existing container execute the following command:

# cexpert.exe /MOUNT="d:\path\container.cc" [/LETTER="D:"] [/AUTOMOUNT>] [/PASSWORD="password"] [/REMEMBER]

#### Where:

/MOUNT or /M - command to mount specified container file

**/LETTER or /L -** command to specify what drive letter should be assigned with the container. If the letter is not free, CryptoExpert will choose the first free drive letter for this container

/AUTOMOUNT or /AM - marks the container to be mounted at Windows start up

/PASSWORD or /PWD - the password to mount container. If this switch is not specified - the password will be asked

**/REMEMBER or /RP** - the password for the container will be remembered (on the computer) and will not be asked in future.

#### Examples:

a) mount the d:\secret\mycontainer.cc file which was encrypted by the password "mydog". Assign "Z:" drive letter for this container.

#### cexpert.exe /m="d:\secret\mycontainer.cc" /l="z:" /pwd="mydog"

b) mount the d:\file.cc container . The password will be asked. Assign any free drive letter for the container.

#### cexpert.exe /m="d:\file.cc"

c) ) mount the d:\file.cc container . The password will be asked and then it will be remembered and will not be asked again in future

#### cexpert.exe /m="d:\file.cc" /remember (password will be asked)

then you can use command **cexpert.exe** /**m="d:\file.cc"** (password will not be asked, because it is remembered)

d) ) mount the d:\file.cc container. And make it mounted at every Windows start up automatically (password will be asked at every windows start up. Specify/remember the switch to enter the password for the first time only)

#### cexpert.exe /m="d:\file.cc" /automount

e) mount the d:\file.cc container. Specify the password "secret". Remember this password. Make the container mounted at every windows start up automatically without asking the password. Mount it as drive T: every time (at every windows start up)

#### cexpert.exe /m="d:\file.cc" /pwd="secret" /remember /automount /L="T:"

### From "Encrypted Containers" Pane

To dismount a <u>virtual drive</u>, find the mounted container in the "Encrypted Containers" pane. Make sure it is mounted ("Yes" in the **Mounted** column) and double click it.

File 🛆	Size	Mounted	Letter	AutoMount	Path
<b>b</b> 111.cc	4 MB	No	ANY	No	\\Anya\C\
🍒 documents.cc	10 MB	No	ANY	No	\\Anya\C\
🍒 documents.cc	10 MB	Yes	G:	No	D:\work\documents\
🍒 newtest.cc	20 MB	No	ANY	No	D:\
🍃 photos.cc	100 MB	No	ANY	No	D:\work\documents\
b test.cc	5 MB	No	ANY	No	\\Anya\C\
🍙 test.cc	5 MB	No	ANY	No	\\Anya\L\

Picture 1. "Encrypted Containers" mode in files pane.

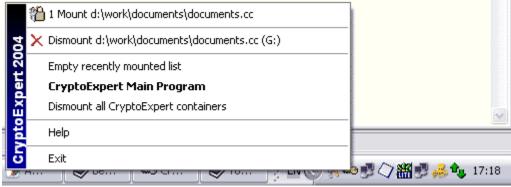
You can also dismount a container from the popup menu. Right click on this container and select the **Dismount** command in the popup menu.

File 🛆	Size	Mount	ed Letter	AutoMount	Path
documents documents newtest.c photos.co	4 MB s.cc 10 MB	No No V	ed Letter ANY ANY IY	AutoMount No No No No No	Path \\Anya\C\ D:\work\documents\ D:\ D:\work\documents\ \\Anya\C\
< ]			Ш		

Picture 2. How to dismount drive from context menu

### From Tray Menu

When you click on program tray icon, menu will appear.



Picture 1. Tray menu

This menu has recently mounted containers.

So, to dismount container, choose this container from the list

### From Command Line

To dismount the existing container execute the following command

cexpert.exe /UNMOUNT="d:\path\container.cc" or cexpert.exe /UNMOUNT /LETTER="Z:" or cexpert.exe /UNMOUNT

#### Where:

/UNMOUNT or /U - – the command to dismount the specified container file /LETTER or /L - – the command to specify the drive letter to be dismounted. You should specify the container path or the drive letter

#### Examples:

a) unmount all mounted containers

#### cexpert.exe /u

b) dismount the "d:\test.cc" container, that was mounted as the unknown drive.

#### cexpert.exe /u="d:\test.cc"

c) dismount the "d:\test.cc" container that was mounted as the T: drive

#### cexpert.exe /u /I="T:"

### About Tray Icon

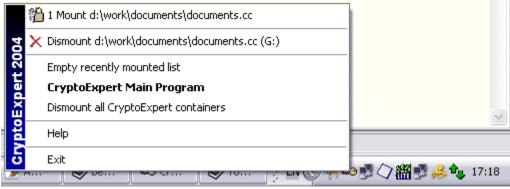
Even when CryptoExpert has hidden main window, it is possible to show it again by double clicking the program icon in the tray (lower right corner of your screen).

🕴 EN 🕜 🛹 🛃 🖓 🏭 🥵 🎭 17:04

**Picture 1.** Yellow key. CryptoExpert icon in the tray

### How to mount container using tray icon

When you click the program tray icon, the menu will appear.



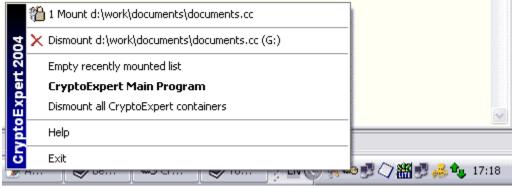
Picture 1. Tray menu

This menu has the recently mounted containers.

So, to mount a container, select this container in the list

### How to dismount container using tray icon

When you click on program tray icon, menu will appear.



Picture 1. Tray menu

This menu has recently mounted containers.

So, to dismount container, choose this container from the list

### **Command Line Syntax**

It is possible to perform **CryptoExpert** commands from the command line. Common command line syntax is described below:

cexpert.exe [switch1] [switch2] [switch3] ... [switchN]

*switch* Switches used to define a specific type of operation

#### Notes

switches are not case sensitive, you may write them both in upper and in lower case.

```
Detailed syntax

cexpert.exe

or

cexpert.exe /TRAY

or

cexpert.exe /INSTALL | /UNINSTALL

or

cexpert.exe /MOUNT="d:\path\container.cc" [/LETTER="D:"] [/AUTOMOUNT>]

[/PASSWORD="password"] [/REMEMBER]

or

cexpert.exe /UNMOUNT="d:\path\container.cc"

or

cexpert.exe /UNMOUNT="d:\path\container.cc"

or
```

#### Notes

1. [[' and ']' brackets mean not required statement. I.e. this switch can be specified or not.

2. '<' and '>' brackets mean required statement. I.e. this statement must be specified.

3. '|' symbol means OR. I.e. one switch or another

### **Mount container**

To mount the existing container execute the following command:

# cexpert.exe /MOUNT="d:\path\container.cc" [/LETTER="D:"] [/AUTOMOUNT>] [/PASSWORD="password"] [/REMEMBER]

#### Where:

/MOUNT or /M - command to mount specified container file

**/LETTER or /L -** command to specify what drive letter should be assigned with the container. If the letter is not free, CryptoExpert will choose the first free drive letter for this container

/AUTOMOUNT or /AM - marks the container to be mounted at Windows start up

/PASSWORD or /PWD - the password to mount container. If this switch is not specified - the password will be asked

**/REMEMBER or /RP** - the password for the container will be remembered (on the computer) and will not be asked in future.

#### Examples:

a) mount the d:\secret\mycontainer.cc file which was encrypted by the password "mydog". Assign "Z:" drive letter for this container.

#### cexpert.exe /m="d:\secret\mycontainer.cc" /l="z:" /pwd="mydog"

b) mount the d:\file.cc container . The password will be asked. Assign any free drive letter for the container.

#### cexpert.exe /m="d:\file.cc"

c) ) mount the d:\file.cc container . The password will be asked and then it will be remembered and will not be asked again in future

#### cexpert.exe /m="d:\file.cc" /remember (password will be asked)

then you can use command **cexpert.exe** /**m="d:\file.cc"** (password will not be asked, because it is remembered)

d) ) mount the d:\file.cc container. And make it mounted at every Windows start up automatically (password will be asked at every windows start up. Specify/remember the switch to enter the password for the first time only)

#### cexpert.exe /m="d:\file.cc" /automount

e) mount the d:\file.cc container. Specify the password "secret". Remember this password. Make the container mounted at every windows start up automatically without asking the password. Mount it as drive T: every time (at every windows start up)

#### cexpert.exe /m="d:\file.cc" /pwd="secret" /remember /automount /L="T:"

### **Dismount a container**

To dismount the existing container execute the following command

cexpert.exe /UNMOUNT="d:\path\container.cc" or cexpert.exe /UNMOUNT /LETTER="Z:" or cexpert.exe /UNMOUNT

#### Where:

/UNMOUNT or /U - – the command to dismount the specified container file /LETTER or /L - – the command to specify the drive letter to be dismounted. You should specify the container path or the drive letter

#### Examples:

a) unmount all mounted containers

#### cexpert.exe /u

b) dismount the "d:\test.cc" container, that was mounted as the unknown drive.

#### cexpert.exe /u="d:\test.cc"

c) dismount the "d:\test.cc" container that was mounted as the T: drive

#### cexpert.exe /u /I="T:"

### Install / uninstall drivers

Sometimes, after installating specific Windows software on your computer, or after moving the CryptoExpert program folder to other computer, CryptoExpert drivers no longer work. To repair the drivers just run CryptoExpert as "cexpert.exe /i", or "cexpert.exe /install"

To uninstall and remove all CC drivers from your computer just run **"cexpert.exe /u"** or **"cexpert.exe /u"** or

Usually, these commands are executed automatically by the CC installation program

### /TRAY switch

/TRAY command line switch is used to run CryptoExpert hidden with yellow icon in the windows system tray.

When specifying this command all Windows start up containers will be mounted automatically

**Q:** I seen two versions of CryptoExpert - Standard and Professional. What is difference? **A:** Yes, CryptoExpert has two editions - standard and professional. The difference is: Standard version can mount one container at the same one. And can create container with size up to 100 MB. Professional version can create containers with size up to 2 GB and can mount several containers at the same time.

**Q:** What is happened with my encrypted drives when I close CryptoExpert program?

**A:** If you minimize or close your CryptoExpert window - your virtual drives aren't disappeared. Any loaded volume still remains loaded. You can copy/move/delete/etc files on encrypted drive using Windows Explorer, MS-DOS prompt, or any another program. To mount/dismount new drive just use tray menu of the CryptoExpert (yellow key in tray) or just run cryptoexpert from START->Programs menu

#### Q: How it works?

A: CryptoExpert uses an on- the-fly encryption system to encrypt and decrypt data. Data is stored in the encrypted form, but when it is requested by any application, it gets decrypted on-the-fly. Conversely, unencrypted data to be stored is encrypted instantaneously and then stored. The CryptoExpert system mounts a volume file to create a "virtual drive" that appears to applications and users like any other physical drive. Any data that the user attempts to write to this drive is intercepted by CryptoExpert, encrypted, and written to the volume file. Attempts to read from this volume are also intercepted, and the relevant data is read by CryptoExpert from the volume file, decrypted, and presented to the application trying to read the data.

Dismounting the CryptoExpert "virtual drive" ensures that data cannot be read from or written to it. All data is stored encrypted within the "container". As far as windows is concerned, there is a 'new' disk that has suddenly appeared. When the program exists or the volume is unmounted, the file system stays encrypted and there is absolutely no way anyone can recover/get the data without the pass phrase.

#### Q: What is a "volume" / "virtual drive"?

**A:** A "volume" is an encrypted container that CryptoExpert creates. It shows up under Windows as a new drive (E: or F: etc.)

#### Q: How is secure my data?

**A:** Passwords within most programs (Word, Excel, Access, etc.) can be broken by mere novices without any computing knowledge. Such password breaking tools are easily available on the World Wide Web, for as little as \$5.95, or sometimes even for free! A file that is encrypted with a strong encryption algorithm, for example Blowfish that CryptoExpert uses, is statistically impregnable against brute force attacks. It would take 10 years for all the computers in existence to break this encrypted file! To put this in perspective, the age of the universe is 10PEears!

#### Q: Why do I need CryptoExpert?

A: Because it is the easiest way to ensure privacy of your data. CryptoExpert guarantees the sanctity of your data by harnessing the power of a powerful encryption algorithm that would take all the computers in the world working together more than the age of the universe to decipher. Using CryptoExpert, you can secure your data, be it in any form textual, graphical, audio or video.

#### Q: What happens in case of a drive crash?

**A:** Hard drives, like any other piece of electronic equipment, crash for a variety of reasons. We very strongly recommend routine backups of all important data including CryptoExpert files.

#### Q: What happens to my data when CryptoExpert is Uninstalled?

A: Even if CryptoExpert is uninstalled the encrypted volume will stay intact. The security of your data is not jeopardised in any way. However, you will not be able to access the volume unless you have CryptoExpert installed on the machine.

### How to order

Here are two versions of this software: PE (Personal Edition) and Professional. To find out what version you use at the moment, select the Help->About... menu item.

Choose which version of the software you wish ro order:

PE version

or

Professional version

**CryptoExpert PE (Personal Edition)** is "try-before-you-buy" software. To check what version do you use at this moment, just choose menu item Help->About. Registration gives you the right to use **CryptoExpert PE** after the 30-day trial period, receive technical support and use features available only for registered users including 1 home license. If you have a question about the registration procedure details, write a message to <u>sales@secureaction.com</u>.

<u>The registration of CryptoExpert PE gives:</u> **1 user home license** (for noncommercial usage, at home only)

- Ability to mount/unmount encrypted container
- No nags at startup and in messages
- Ability to use passwords with length more than 3 symbols
- Using powerful encryption algorithm to encrypt your data CAST 128 bit
- Ability to create containers larger than 20 MB (demo version restriction)
- Lifetime technical support including support via e-mail.
- FREE upgrade to new versions.
- Product notification by e-mail.
- Beta testing for newest version.

After registration (in 1 hour) you will receive Activation Code(s) and detailed instructions. This code will transform CryptoExpert to fully registered version and enable all disabled features.

You can register your copy of CryptoExpert 2005 PE for US\$39.95

To order the software just go to URL:

#### http://www.cryptoexpert.com/std/order/

The program can be ordered using credit cards: VISA, MasterCard, American Express, Dinners Club, Switch, Solo

It can be ordered in 1 minute via our SSL sales server (online) or via Mail, FAX, Purchase Order and other..

You will also receive an invoice.

### Professional

**CryptoExpert Pro (Professional Version)** is a "try-before-you-buy" software. To find out what version you use at the moment, select the Help->About... menu item. The registration provides you with the right to use CryptoExpert Pro after the 30-day trial period, to get free technical support and use the features available only for the registered users including one business license. If you have any questions about the registration procedure, contact us at sales@secureaction.com.

#### The CryptoExpert Pro registration provides you with:

One user business license (for professional, commercial use)

- The ability to mount/dismount several encrypted containers simultaneously
- No nags at startup and in messages

- The ability to use 4r powerful encryption algorithms **including AES!** (PE version includes 1 algorithm only: CAST)

- The ability to share the virtual drive in a network and load containers from other network drives
- The ability to use more than 3 symbols length passwords
- The ability to create containers up to 64+ GB size
- The ability to mount an unlimited number of virtual drives at the same time
- Lifetime technical support including support via e-mail.
- FREE upgrade to new versions.
- Product notification by e-mail.
- Beta testing for the latest version.

# You will receive the Activation Code(s) and the detailed instructions after the registration (within the hour). This code will transform CryptoExpert to the fully registered version and enable all the disabled features.

You can register your copy of CryptoExpert 2005 Professional for US\$59.95. Volume discounts available.

http://www.cryptoexpert.com/pro/order/

## Advanced Encryption Package 2005 Professional (http://www.secureaction.com/encryption\_pro/)

AEP2005 Pro allows you to encrypt, make selfexecutable files and even shred files contents! Work with .ZIP files!

AEP2005 Pro features:

- \* Using 17 powerful encryption algorithms to encrypt your data: DESX, BLOWFISH, RIJNDAEL(AES), CAST, 3-DES, RC2, DIAMOND2, TEA, SAFER, 3-WAY, GOST, SHARK, SQUARE, SKIPJACK, TWOFISH, MARS, SERPENT
- \* Complete .ZIP support (creating .zip archives, browsing & extracting ZIP contents)
- \* Making self-extracting encrypted executable files to send it via e-mail to people who do not have AEP2005
- \* Built in file shredder i.e. wiping the contents of the original pre-encrypted file beyond recovery to make sure that not even a trace remains after shredding. (matching and exceeding the specifications of the U.S. Department of Defence) to stop hardware recovery tools.
- \* Ability to send encrypted files and selfextractors via email (MAPI)
- \* Ability to encrypt text to send it via your favourite e-mail program like Outlook Express, Eudora, ICQ and etc
- \* Integrating with Windows (TM) Explorer. I.e. ability to encrypt/decrypt/shred files directly from Explorer context menu
- \* Complete command line interface support
- \* Ability to assign a riddle with your password inside encrypted file
- \* Built-in packer to reduce a size of encrypted files. So, AEP2005 is not only encryptor, but tool like WinZip!
- \* Skins support! And 12+ nice-looking skins for program.
- \* User-Friendly easy-to-understand Graphical interface designed to hide the complexities of encryption technology from the end user.

#### Secure Notes Organizer (http://www.notesorganizer.com)

lets you store and arrange all your information in a tree outline form. The possibilities for its use are practically endless: to-do lists, recipes, project notes, personal contacts, bookmark lists, reports, term papers and more.

It allows you:

- \* Organizing information in a very convenient form folders. Every folder can be represented as Tree,
  - Calendar or Stack of Shortcuts
- \* Arranging items using mouse
- \* Searching information in all database
- \* Instant saving changes and minimizing using ESC key
- \* Automatical URL recognition in the document
- \* Protecting document by password
- \* Using Multi-lingual interface
- \* Customizing menus and toolbars

Founded in 1998, SecureAction Research is an award winning, software engineering company, that has since developed, and continues to develop, a wide scope of quality software products. The SecureAction software assortment is composed of high-quality software products, e.g. applications, software components and controls, to be used in all major Windows<sup>™</sup> systems.

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Our corporate web site: www.secureaction.com

SecureAction is a member of ASP and ISDEF.





### Contact us

#### To contact us, just drop a message via e-mail:

to our support team <a href="mailto:support@secureaction.com">support@secureaction.com</a>

If you have already purchased license(s) for our products, please include your UserID. We quickly respond to all questions submitted to this e-mail in the order they are received. If you are not yet a SecureAction customer, please also use this mail. Our staff is available to respond to your inquiries 24 hours a day, excluding holidays. Messages are normally answered within two hours.

to our sales team sales@secureaction.com

You also can contact with us by recording a voice message on our voice mail answering machine (please *include your email* into this voice message):

Phone and fax:

USA: +1-800-XCRYPTO or +1-800-927-9786

Outside USA: +1-501-421-3143 Please visit our site in Internet -<u>http://www.secureaction.com</u> (Corporate site) <u>http://www.cryptoexpert.com/</u> (CryptoExpert Site)

Every time you can find on our site information about new version of SecureAction's products, announces, new beta-versions, special offers and more.

In this mode, First or Second pane shows containers repository. You can see here all your encrypted containers and its states.

To see this pane, click **"Drives"** Button, then click on **"Containers"** icon.

When **Folders pane** has *folders mode*, you can change the root folder for active files pane by changing folder in folders pane. To activate folders mode in **folders pane**, just click on **Folders** button.

In this mode, **Folders Pane** has to icons to click : **"Containers"** and **"All Drives"**. By clicking on "Containers" icon, you change the mode of active files pane to "Encrypted Containers" mode

In this mode, First or Second Pane shows folders and files

Virtual drive looks like any other storage device in your system.



Picture 1. How virtual drive looks in Windows Explorer

You can use CryptoExpert to mount your existing encrypted container file to make it visible as virtual drive. At **Picture 1**, **"Documents G:"** drive is not real device, it is virtual drive of CryptoExpert.

When you delete your sensitive files from a disk on your computer, the Windows operating system does not erase these files' contents from the disk - it only deletes 'references' to these files from system tables. Contents of the deleted file (file body) continue to be stored on the disk and can be easily restored using any disk tool utility. After running a secure file deleting utility, it is impossible to restore the deleted data.