

 **Fix Me!** Diese Seite wurde noch nicht vollständig übersetzt. Bitte helfen Sie bei der Übersetzung.

*(diesen Absatz entfernen, wenn die Übersetzung abgeschlossen wurde)*

# Overview

## Introduction

Encryption Suite Pro Secure Storage allows you to create/Mount/Use your created storage for convenient file handling while keeping your information secure. Creating and using Storages with Encryption Suite Pro is convenient and helps you keep your information secure, stay compliant with requirements such as FIPS 140-2 and designed to match your workflow.

There are three buttons to choose from in the Secure Storage section of Encryption Suite Pro:

- Secure Storage - Opens the Secure Storage Manager so that you may add/remove/edit/use your Secure Storages
- Create Secure Storage - Opens and starts the Create Secure Storage wizard that guides you in creating your Secure Storage.
- Bind Secure Storage - allows you to choose/add/edit an already created Secure Storage that has not been imported into your Secure Storage Manager.

## Encryption Details

There are five secure encryption formats in Encryption Suite Pro:

- **PA AES encryption** - secure PA encryption, usable only with Encryption Suite Pro. **Most secure format in Encryption Suite Pro!**
- **PAE/PAE2 encryption** - special encryption container format and can be used for all different archives supported in Encryption Suite Pro. PAE2 is latest encryption format from Encryption Suite Pro.
- **ZIP AES encryption** - secure ZIP encryption, usable with newest versions of most popular zip utilities (recommended for compatibility).
- **7-Zip AES encryption** - AES encryption when you use 7-Zip format for compression.
- **OpenPGP Encryption** - Full support for OpenPGP format. From encrypting/decrypting files to creating/importing/exporting OpenPGP keys.

## Introduction to .PA encryption

Encryption Suite Pro features the Advanced Codec Pack (.PA format). It provides the most secure encryption in Encryption Suite Pro, and is more secure than ZIP and 7z AES. For added security, we use the BWTS algorithm to scramble the data before AES encryption, so attackers can not use LZ compression redundancy and other plaintext attacks to quickly check if a given password is valid. This makes the .PA format considerably more secure than ZIP AES. For the AES encryption module, we use FIPS 140-2 validated modules from Windows so you can rest assured that AES implementation has

been tested and validated (FIPS 140-2 encryption module is always used). PA format is only used by Encryption Suite Pro.

## Using Encrypt tool

To start the tool, select „**Encrypt**“ from the „**Tools**“ menu/tab.

At the Encrypt dialog window, you will need to do several things:

- **Add Files** - select the file/s that is/are going to be encrypted.
- **Add Folders** - select the folder/s that is/are going to be encrypted. You can add one more more folders to the encryption tracklist.
- **Remove** - Remove one, many or all files from encryption tracklist.
- **Encryption Options** - Select format you want to to encrypt file/archive to.
- **ZIP Encryption Options** - encrypt file/archive in ZIP format encryption including AES encryption. Encryption methods:
  - **AES 128-bits** - creates encrypted ZIP archives with AES 128-bit encryption, readable by newer Zip utilities (PowerArchiver 9.xx, PkZip 8.xx, WinZip 9.xx, etc).
  - **AES 192-bits** - creates encrypted ZIP archives with AES 192-bit encryption, readable by newer Zip utilities (PowerArchiver 9.xx, PkZip 8.xx, WinZip 9.xx, etc).
  - **AES 256-bits** - creates encrypted ZIP archives with AES 256-bit encryption, readable by newer Zip utilities (PowerArchiver 9.xx, PkZip 8.xx, WinZip 9.xx, etc).
- **7-Zip** - encrypt file/archive in 7-Zip AES 256-bits format.
  - **Method** - Choose between „Optimized“, „LZMA“, „LZMA2“, „PPMd“ and „Store“ methods of compression.
  - **Compression** - Choose the strength of compression of your encrypted archive.
  - **Create Solid Archive** - This option will let you create a Solid archive. All the files in the Solid archives are treated as one big file, which lets you achieve much better compression. Solid archives can not be updated or changed in normal usage.
- **PA** - creates PA archives with AES 256-bit encryption (most secure).
  - **Secure AES 256-bits** - creates PA archives with AES 256-bit encryption. For added security, we use the BWTS algorithm to scramble the data before AES, so attackers can not use LZ compression redundancy and other plaintext attacks to quickly check if given password is valid. This makes .pa format considerably more secure than ZIP AES. For the AES encryption module, we use FIPS 140-2 validated modules from Windows so you can rest assured that AES implementation has been tested and validated (FIPS 140-2 encryption module is always used).
  - **Encrypt Filenames** - encrypts file names inside archive so they can not be seen before correct password is used.
- **PAE/PAE2** - encrypt selected file/archive in PAE/PAE2 container with following Encryption Methods:
  - **PAE/PAE2** has 5 different methods of encryption available with **AES** (default) being the most secure. We recommend using AES for encryption since it has been elected as a new Advanced Encryption Standard (AES).
- **Compression Options** - select strength and method of compression (ZIP, PA and 7-Zip only).
- **Delete original file after encryption** - when checked, file that was encrypted (source file)

will be deleted after encryption.

- **Encrypt filename** - Encrypts the filename of encrypted file (PAE/PAE2, PA and 7-Zip only).
- **Group Into Single File** - Groups all files/folders in tracklist into one encrypted archive.
- **Encrypt Individually** - Encrypts all files/folders in tracklist into separate archives.
  - **Append Suffix:** - Adds a suffix to the filename of each encrypted archive. „\_enc“ is the default filename. To change it, place your cursor into the field and type in your own suffix.
- **Destination Folder**
  - **File's Current Folder** - The encrypted archive or archives will be saved in the folder of the originating files that are being encrypted.
  - **Custom Folder** - Saves the encrypted archive or archives in the folder of your choice. To enter the custom folder to save to, either type in the folder location in the shown field or click the browse button to navigate to the desired folder of your choice.

After you have selected the options, click „**Encrypt**“ to finish the process and encrypt the file. Encryption Suite Pro will then ask you for a password and you will have to enter it two (2) times.

**Please note** that it is very **IMPORTANT** that you do not forget your password. You will NOT be able to use the file if you forget the password. There is no way you can recover a forgotten PAE/PAE2 password.

## PAE Encryption Tips and Tricks

- Encryption Suite Pro's **Password Manager** is able to remember passwords of encrypted files. This option is turned off by default but if you are working in secure environment and use PAE only to send files via the Internet, then you can enable it so you do not have to enter a password each time you want to access your encrypted files. You can do so in „**Options> Configuration> Password Manager**“. Your passwords are saved using 256 bit AES encryption. erArchiver will then load the encryption tool immediately after compression with predefined default options.
- You can use Explorer Shell Extensions to encrypt files with one click of the mouse. To do this, you can either enable „**Encrypt**“ shell extensions under „**Configuration> Shell Extensions**“ or simply right click a file go to the Encryption Suite Pro right click menu and select Encrypt.

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