

## Operating Instructions



## Encryption Program Longpass

The encryption program Turbine is freeware. If you would like to support the future development of an independent, strong and free for everyone encryption program, then please donate \$ 5 to the following bank account:

**IBAN: DE82250100300159741907**

**BIC/Swift-Code: PBNKDEFF250**

(bank account No.: 159741907, BLZ: 25010030, Postbank Hannover, Germany)

This program encrypts any type of file. LONGPASS needs two password files of any kind. Its size needs to have at least the same size or bigger as the file you want to encrypt.

LONGPASS needs password files with diverse bit pattern for high security.

Use the program Longpass Passwordcreator to generate password files.

Important: Before you can exchange with LONGPASS encrypted files, you have to share the password files personally if possible.

An offset (start byte) can optionally be applied so that password-files can be used manifold if they are bigger than the message.

Because of this, it is recommended to exchange password files as big as possible.

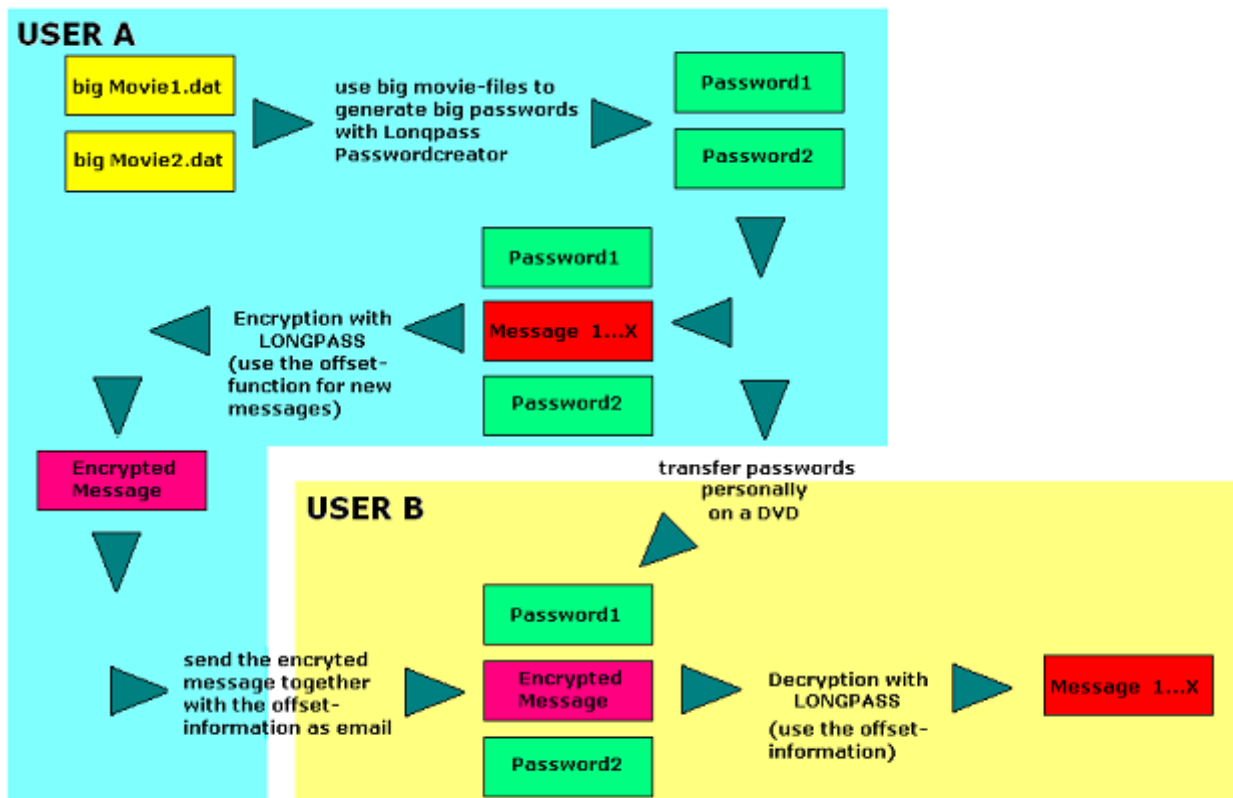
LONGPASS is particularly suitable for the cyclic exchange of new passwords for symmetric-key algorithm like AES, Twofish, RC4, Turbine and other.

This program is free software. The appliance is on your own risk. No liability for any consequential damages.

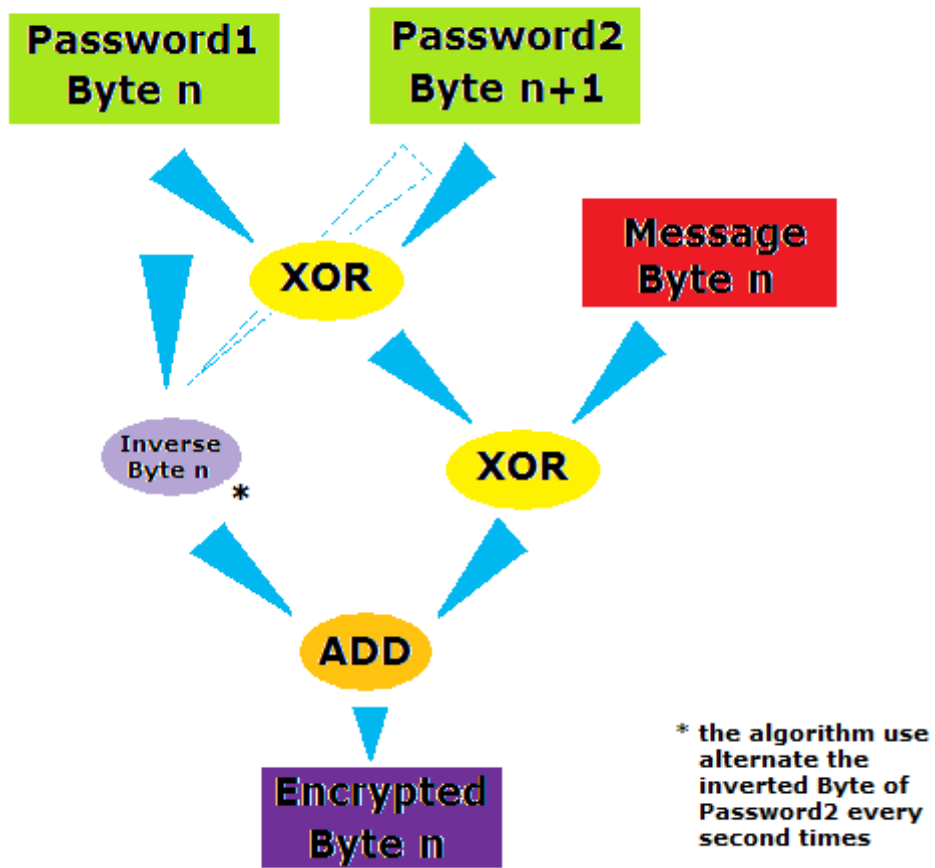
LONGPASS is based on the One Time Pad-algorithm.

[http://en.wikipedia.org/wiki/One-time\\_pad](http://en.wikipedia.org/wiki/One-time_pad) <http://de.wikipedia.org/wiki/One-Time-Pad>

Instruction:



Algorithm:



## How to use Longpass:

```
0-> Do you want to encrypt
1-> or decrypt
0
Type in the name of the file you want to encrypt :text.txt
Type in new file name for the encrypted file :text_encrypt.txt

Checking data file. Please wait.
.~.~.
length : 16568416

You need two password files 16568416 bytes big (or bigger)!
Type in name of the first password file :key1.lgp
Type in name of the second password file :key2.lgp

Do you want to use offset-function?
Attention: The password file needs to be extended about the size of the offset
Use offset function?
0-> No
1-> Yes
1
Type in the start byte number : 30000
Attention: You have to use the offset value 30000 for decryption!

Checking first password file. Please wait.
.~.~.
Length of first password file is sufficient!
Checking second password file. Please wait.
.~.~.
Length of second password file is sufficient!

Encryption completed: 100%
Encrypted bytes: 16568416

Do not forget:
Name of first password file: key1.lgp
Name of second password file: key2.lgp
Offset: 30000

Encryption finished! Press ENTER to exit.
```

**Hint:** The program breaks, if you type in a wrong input filename or suffix!

**Hint:** The suffix (file format) of the output filename is freely selectable!

### How to use Longpass Passwordcreator:

```
Please type in five random numbers
Type in a first random number between 1 and 65535: 389
Type in a second random number between 1 and 65535: 47125
Type in a third random number between 1 and 65535: 2789
Type in a fourth random number between 1 and 65535: 14716
Type in a fifth random number between 1 and 65535: 67

Type in name of the input file (e.g a video or audio file):radionoise.wav

Type in file name for the new password file :key_a.lgp
.....
.....
.....
length : 1442519195

Creation completed: 100%
Created bytes: 1442519195
Password-Creation finished! Press ENTER to exit.
```