Dark-Fog - File encryption and Security made easy.

Dark-Fog(+) Client Manual

Dark-Fog is a file encryption software, with the purpose of securing important files, for save sharing online in cloud storages or on local storages. It offers support for Android and Windows devices / systems.

Development & Copyright

IT-Huskys Dev-Group - 2013-2024

https://www.dark-fog.net/

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Manual Index

1.0 What is Dark-Fog?

Dark-Fog is a file encryption software, with the purpose of securing important files, for save sharing online in cloud storages or on local storages.

1.1 Why file encryption?

In times where we need to have all the information at any time with us , intensive use of online storage or transportation of important data on portable storage devices is unpreventable , which all together at any time can be taken from foreign or even attacking people and would cause critical damage in privacy and finances. This can only be prevented by file encryption.

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2.0 The features of Dark-Fog

The Dark-Fog Client versions offer different features depending on its versions and use purpose.

2.1 Dark-Fog Versions and Features:

Feature	Dark-Fog Windows Client	Dark-Fog Android Client	Dark-Fog+ Windows Client	Dark-Fog+ Android Client	Dark-Sky
unlimited file size processing	✓	✓	✓	✓	✓
Dark-Fog Level 1 encryption	✓	✓	✓	✓	✓
Dark-Fog Level 1 decryption	✓	✓	✓	✓	✓
Dark-Fog Level 2 encryption	✓	✓	✓	✓	✓
Dark-Fog Level 2 decryption	✓	✓	✓	✓	✓
Dark-Fog Level 3 encryption			✓	✓	✓
Dark-Fog Level 3 decryption	✓	✓	✓	✓	✓
Dark-Fog Level 4 encryption			✓	✓	✓
Dark-Fog Level 4 decryption	✓	✓	✓	✓	✓
Single-File processing	✓	✓	✓	✓	✓
Multi-File processing	✓		✓		✓
Crypt-Process Pausing / Resuming			✓	✓	✓
Multi-Threading processing			✓	✓	✓

Full Directory / Folder content processing			✓	✓	✓
Automatic / Live Directory / Folder content processing					✓
File based Password Database / Management					✓
MYSQL based Password Database / Management					✓
System resource configuration					✓
E-Mail support			✓	✓	✓
Commercial License / Usage / Support			✓	✓	✓
Price	FREE	FREE	4,99€	4,99€	49,99€
Availablility	Direct Download	Google Playstore	Via E-Mail	Google Playstore	Via E-Mail

2.2 The features of Dark-Fog in detail

2.2.1 Unlimited file size processing

This feature allows to process any file size that your operating FAT(File Cluster Formation)-System allows. There is no memory or size limitation to processing.

File system	Maximum size
APFS	8 Exabyte
exFAT	16 Exabyte
FAT12	16 Megabyte
FAT16B	2 Gigabyte
FAT32	4 Gigabyte
HFS	2 Gigabyte
HFS+	8 Exabyte
HPFS	2 Gigabyte
NTFS	16 Exabyte
Btrfs	16 Exabyte

2.2.2 Dark-Fog Level 1 encryption/decryption

This feature allows to use the level 1 Dark-Fog Syntax for encrypting and decrypting files. The 1st is an encryption based on the password alone. Depending on the given password (up to 32 signs), the encryption will be different. It does not include any hash or checksum for the password used for the encrypted file. Makes it impossible to brute-force or to decipher the used encrypt-password.

2.2.3 Dark-Fog Level 2 encryption/decryption

This feature allows to use the level 2 Dark-Fog Syntax for encrypting and decrypting files. The 2nd option is based on a password (up to 32 signs) and a key-file that is required to calculate the decryption. It does not include any hash or checksum for the password used for the encrypted file. Makes it impossible to even get an output.

2.2.4 Dark-Fog Level 3 encryption/decryption

This feature allows to use the level 3 Dark-Fog Syntax for encrypting and decrypting files. The 3rd is an encryption based on the password and file size. Depending on the given password (up to 1024 signs), the encryption will be different with a 2nd layer encryption based on the file size. It does not include any hash or checksum for the password used for the encrypted file. Makes it impossible to brute-force or to decipher the used encrypt-password.

2.2.5 Dark-Fog Level 4 encryption/decryption

This feature allows to use the level 4 Dark-Fog Syntax for encrypting and decrypting files. The 4th option is based on a password (up to 1024 signs), file size and a key-file that is required to calculate the decryption. It does not include any hash or checksum for the password used for the encrypted file. Makes it impossible to even get an output.

2.2.6 Single-File processing

This feature allows you to process one file at a time. Assuring minimal system resource usage and functional processing even for low-end system speck devices and systems.

2.2.7 Multi-File processing

This feature allows you to process one file at a time, with multiple files queued up for processing, with the same setting applied. Assuring minimal system resource usage and functional processing even for low-end system speck devices and systems. Multiple files can be listed/selected for processing without the need to apply the same settings manually for each file separately.

2.2.8 Crypt-Process Pausing/Resuming

This feature allows you to pause the encryption- and decryption process at any time. In case a file or many files take longer to be processed, and you need the system calculation power elsewhere, you can simply pause the process and resume it later whenever you want.

2.2.9 Multi-Threading processing

This feature allows you to process all queued files at the same time. Making use of the of the full system resources and processing power, to encrypt any decrypt all selected file(s) at the same time. This feature increases processing speed and productivity massively compared to "Single-File processing". Depending on the amount and size of the processing files, this feature can be very system-resource intensive.

2.2.10 Full Directory/Folder content processing

This feature allows you to process all files in a specific directory/folder. Simply select the directory/folder you want all files to be processed by the given configuration/settings. The folder/directory will be scanned for all files it contains and queued up for processing.

2.2.11 Automatic/Live Directory/Folder content processing

This feature allows you to automatically process new files that get created/placed/uploaded to a configured folder/directory, based on the applied security settings. The processing of the file(s) will apply under the "Multi-Threading processing" feature.

2.2.12 File based Password Database/Management

This feature allows you to have all auto-encrypted files managed by a local file-database. This enables you to have all passwords random generated, based on a high security syntax, and stored in a local file database for encryption and decryption.

2.2.13 MYSQL based Password Database/Management

This feature allows you to have all auto-encrypted files managed by MYSQL-database. This enables you to have all passwords random generated, based on a high security syntax, and stored in a MYSQL database for encryption and decryption.

2.2.14 System Resource configuration

This feature allows you to have full control about the amount of System-Resources, Dark-Sky is allowed to use to process the files and run all its features. Assuring that the running system can not be slowed down by it.

2.2.15 E-Mail support

This feature allows you get in contact with the developers of the Dark-Fog File Encryption solutions, for support and maintenance.

2.2.16 Commercial License/Usage/Support

This feature allows/certificates you to legally run all Dark-Fog solutions in a commercial business environment, with legal usage for customer and inhouse security.

3.0 System requirements

Minimum System Requirements		
System	**Windows**	**Android**
OS Version	Windows 7 SP1	9
CPU	AMD Phenom II X4 940, Intel Core 2 Quad Q8400 or better	Qualcomm APQ8064T Snapdragon S4 Pro, Quad-core 1.7 GHz Krait 300 or better
RAM	2 GB	2 GB
Storage	100 MB + processing file size	100 MB + processing file size
Required	.Net 4.51	Global File Write Permission

Recommended System Requirements		
System	**Windows**	**Android**
OS Version	Windows 10+	12+
CPU	AMD Ryzen 7 5800X, Intel Core i7-13700K or better	Qualcomm Snapdragon 855, MediaTek Dimensity 1000+ or better
RAM	16 GB+	6 GB+
Storage	100 MB + processing file size	100 MB + processing file size
Required	.Net 4.51	Global File Write Permission

Please be aware that the needed system-resources are highly depending on the size of the files that are selected for processing. Larger files may require a way higher amount of RAM and System-Storage.

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4.0 Encryption-Options

Dark-Fog is a file encryption software, with the purpose of securing important files, for save sharing online in cloud storages or on local storages. It offers 4 encryption options with a high security syntax behind it. The 1st and 3rd are an encryption based on the password alone (lvl 3 also on the file size). Depending on the given password, the encryption will be different. The 2nd and 4th options are based on a password and a key-file that is required to calculate the decryption (lvl also on the file size). All options (levels) do not include any hash or checksum for the password used for the encrypted file. Makes it impossible to brute-force or to decipher the used encrypt-password.

4.1 Dark-Fog Encryption – Level 1
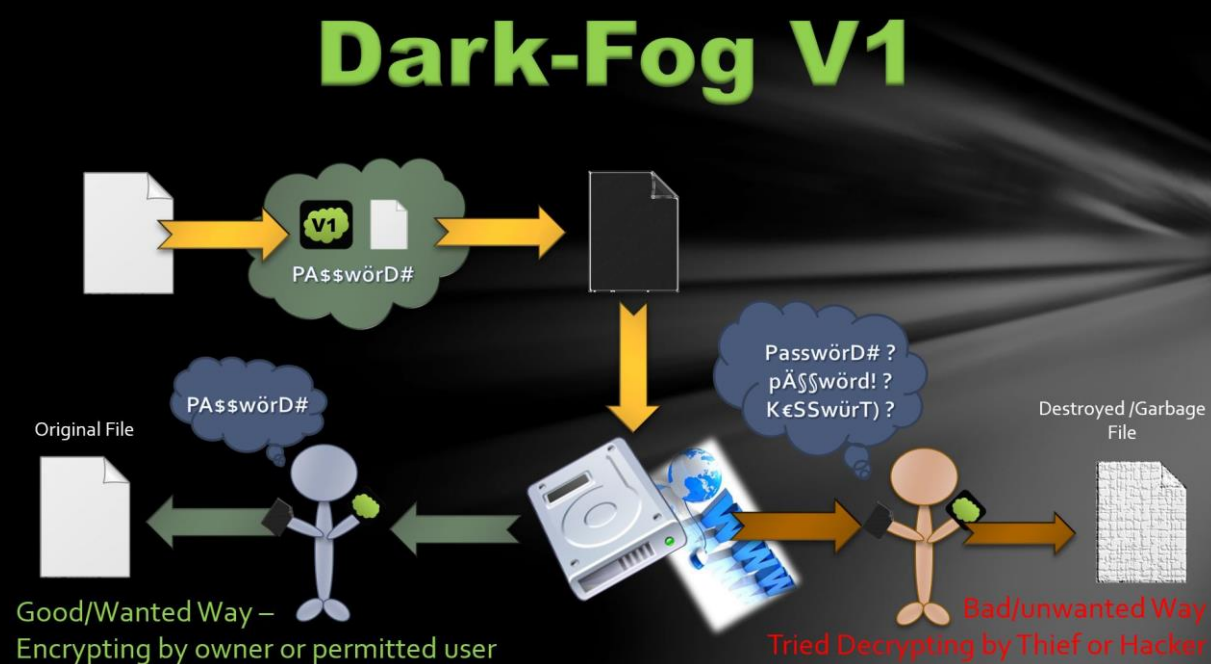
Dark-Fog with Encryption-option 1 (will be called V1), is very easy to use. The user just takes the file who he wants to encrypt and chooses a password (**up to 32 signs**) which will be used for the encryption. The file(s) will now be securely encrypted with the given password and the syntax it creates. The encrypted file can now be sent online or saved without the risk to be stolen and used. To decrypt a file, you need to enter EXACTLY the password that was given in the process of encryption, or it will be using the wrong syntax generated by the password and only a garbage file will be created. Because Dark-Fog doesn't use a checksum, it is not possible to say if a password is correct, so there is no way to brute force the right password. To try every possible password will come with a huge effort, because the attacker would need to check every file and needs a lot of system power to do so.

4.2 Dark-Fog Encryption – level 2
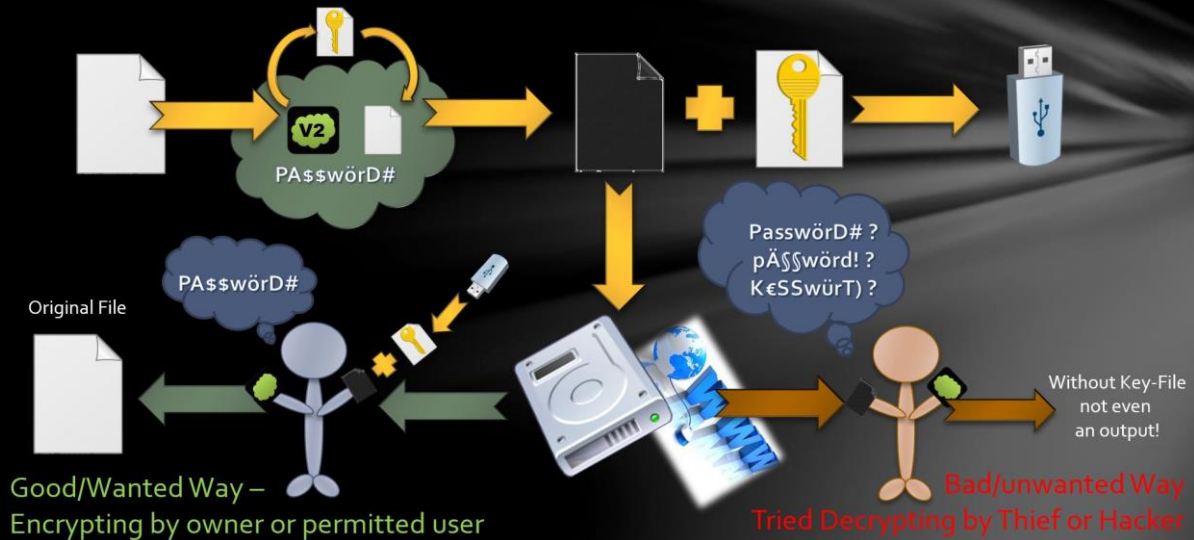
Dark-Fog with Encryption-option 2 (will be called V2), needs a little more effort from the user as V1 but is even more secure. The basics are the same as V1 (**up to 32 signs for the password**), but with a huge difference! In this case the Crypt-Syntax creates a random generated Key-File for every file that will be encrypted. The basic idea is that the encrypted file can be stored as usual online or on a local hard drive, but you also need an authentication-syntax file for the decryption as well as the password. You can now store the sensitive data online with an even more secure level, and simply keep the key-file for it locally saved. If someone now online accesses the data and even knows the password, the attacker has no way to decrypt it since he does not have the necessary values without the key file(s).

4.3 Dark-Fog Encryption – level 3
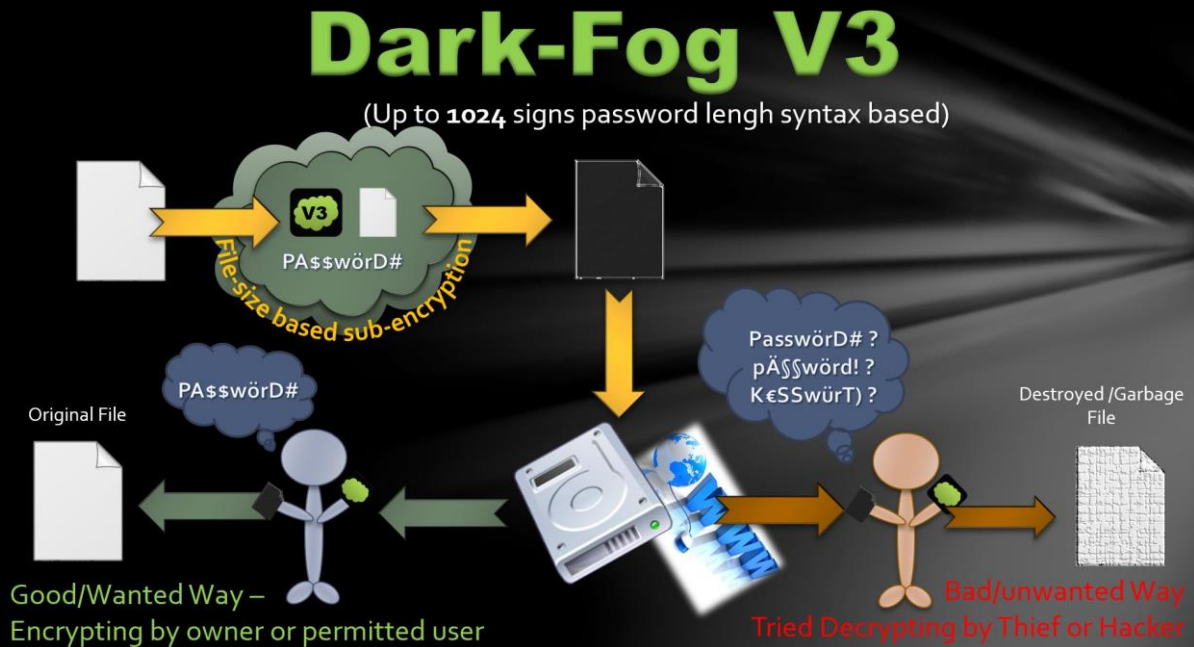
Dark-Fog with Encryption-option 3 (will be called V3), is also very easy to use but even stronger then its V1 option thanks to its expanded password-encryption syntax and file size based sub-encryption. The user just takes the file who he wants to encrypt and chooses a password (**up to 1024 signs**) which will be used for the encryption. The file(s) will now be securely encrypted with the given password and the syntax it creates, with a 2nd layer encryption based on its file size. The encrypted file can now be sent online or saved without the risk to be stolen and used. To decrypt a file, you need to enter EXACTLY the password that was given in the process of encryption, or it will be using the wrong syntax generated by the password and only a garbage file will be created. Because Dark-Fog doesn't use a checksum, it is not possible to say if a password is correct, so there is no way to brute force the right password. To try every possible password will come with a huge effort, because the attacker would need to check every file and needs a lot of system power to do so.

4.4 Dark-Fog Encryption – level 4

Dark-Fog with Encryption-option 4 (will be called V4), needs a little more effort from the user then V1 or V3, but is even more secure. The basics are the same as V3 (**up to 1024 signs for the password**) and a file size based sub-encryption, but with a huge difference! In this case the Crypt-Syntax creates a random generated K4y-File for every file that will be encrypted. The basic idea is that the encrypted file can be stored as usual online or on a local hard drive, but you also need an authentication-syntax file for the decryption as well as the password. You can now store the sensitive data online with an even more secure level, and simply keep the key-file for it locally saved. If someone now online accesses the data and even knows the password, the attacker has no way to decrypt it since he does not have the necessary values without the key file(s).

5.0 Dark-Fog Menu/Navigation

1 = File-Encryption – opens the File-Encryption menu

2 = File-Decryption – opens the File-Decryption menu

3 = Message-En/Decryption – open the Message En/Decryption menu

4 = License & App Information – opens the Information overview about the apps version and user license

5 = App-Options – opens the Options-menu with the app-configuration settings [only available (with full features) in the Dark-Fog+ client solution]

6 = Closes Dark-Fog

5.1 File-Encryption

1 = Close Crypt-menu, resets the file-list and goes back to the Main-menu (Windows client only)

2 = Drag & Drop File-List that have to be encrypted. Just drop the files or folders right in the area (Windows client). On Android select the files or folder(content) you want to encrypt or clear the selection. All files in the list will be encrypted with the given password and settings.

3 = Password who will be used to encrypt the files (up to 32 Symbols DF1 & 2 – up to 1024 Symbols DF3 & 4).

4 = Select the Dark-Fog level that the files will be encrypted on (level 3-4 only available in Dark-Fog+)

5 = Start encryption and offers PAUSE-RESUME option during procession (only in Commercial Premium (+) Client)

6 = Creates a random generated password with the maximum supported length of the selected Dark-Fog encryption level (32 Symbols for DF1 & 2 –1024 Symbols for DF3 & 4). *The generated password is automatically copied into the clipboard(Copy & Paste memory) for custom saving.*

5.1.1 Output of the Dark-Fog V1 and V3 Syntax:
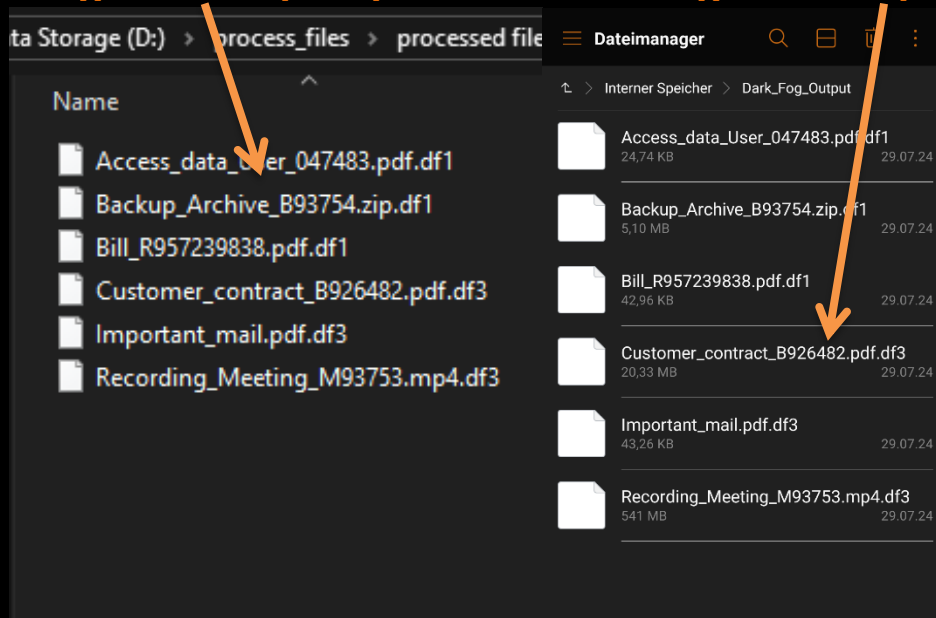
The processed files will be in the same directory as the source files if not configured differently (Windows client). In the Android client version, all processed files will always be in the folder "Internal Storage/Dark_Fog_Output" if **"File(s) selection"** was selected as the source. With the **"Folder(content) selection"** all files will be placed in the same directory as the source files, if not configured differently.

5.1.2 Output of the Dark-Fog V2 and V4 Syntax:

Dark-Fog V2 files (.df2)

Access_data_User_047483.pdf.df2
Backup_Archive_B93754.zip.df2
Bill_R957239838.pdf.df2

⤴	Interner Speicher > Dark_Fog_Output
Access_data_User_047483.pdf.df2 24,74 KB	29.07.24
Backup_Archive_B93754.zip.df2 5,10 MB	29.07.24
Bill_R957239838.pdf.df2 42,96 KB	29.07.24

Dark-Fog V4 files (.df4)

Customer_contract_B926482.pdf.df4
Important_mail.pdf.df4
Recording_Meeting_M93753.mp4.df4

Customer_contract_B926482.pdf.df4
20,33 MB   29.07.24
Important_mail.pdf.df4
43,26 KB   29.07.24
Recording_Meeting_M93753.mp4.df4
541 MB   29.07.24

Dark-Fog V4 key files (.k4y)

Customer_contract_B926482.pdf.k4y
Important_mail.pdf.k4y
Recording_Meeting_M93753.mp4.k4y

Customer_contract_B926482.pdf.k4y
697 B   29.07.24
Important_mail.pdf.k4y
696 B   29.07.24
Recording_Meeting_M93753.mp4.k4y
699 B   29.07.24

Access_data_User_047483.pdf.key
Backup_Archive_B93754.zip.key
Bill_R957239838.pdf.key

Access_data_User_047483.pdf.key
504 B   29.07.24
Backup_Archive_B93754.zip.key
500 B   29.07.24
Bill_R957239838.pdf.key
503 B   29.07.24

Dark-Fog V2 key files (.key)

The processed files will be in the same directory as the source files if not configured differently (Windows client). In the Android client version, all processed files will always be in the folder "Internal Storage/Dark_Fog_Output", if **"File(s) selection"** was selected as the source. With the "**Folder(content) selection**" all files will be placed in the same directory as the source files, if not configured differently. The Key/K4y files can be generated (by setting) in an own separate folder on creation.
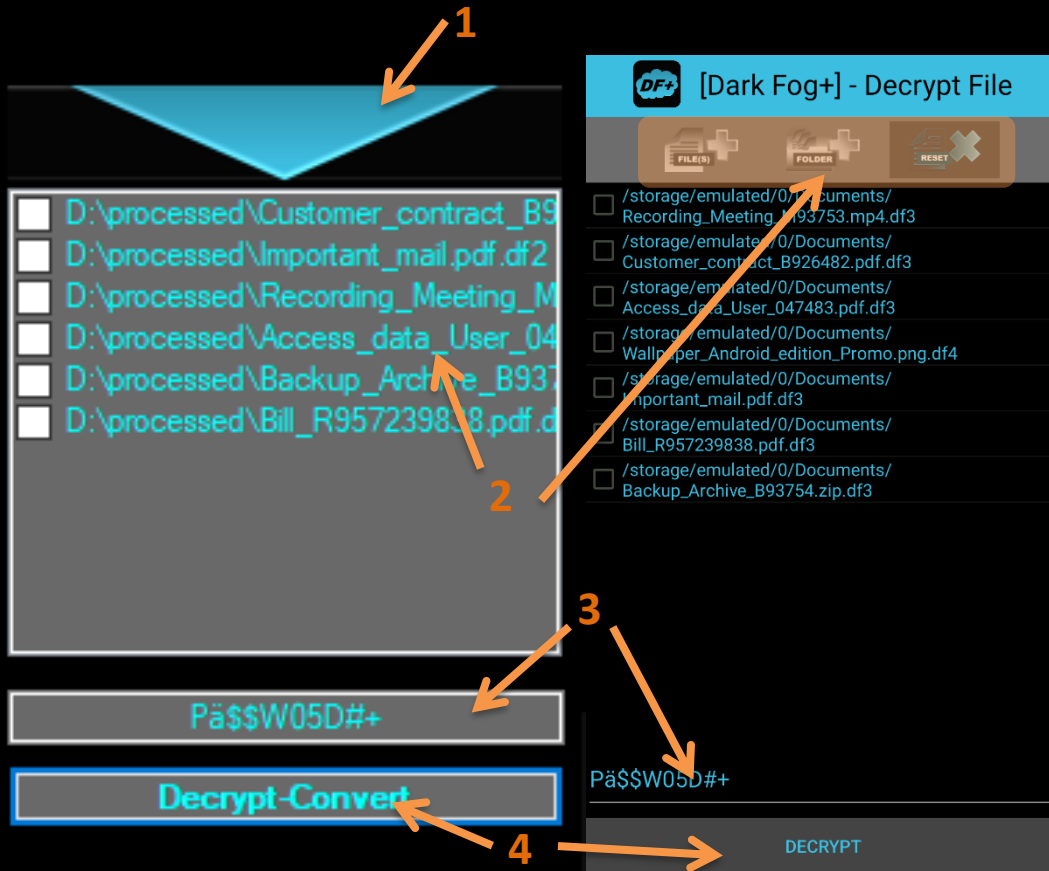
Task Complete

The encryption process has been completed! The encrypted file(s) has/ have been stored at: '/storage/emulated/0/Documents'.

The key/k4y-files can be stored separately. For example the file(s) can now be safely stored online, with the key-file/k4y-file remaining on the users end or send via email to the targeted user.

5.2 File-Decrypt Menu

1 = Close Decrypt-menu, resets the file-list and goes back to the Main-menu (Windows client only)

2 = Drag & Drop File-List that have be decrypted. Just drop the files or folder(content) right in the area (Windows client).On Android select the files or folder(content) you want to decrypt or clear the selection. All files in the list will be decrypted with the given password. DF1, DF1, DF3 and DF4 files can be decrypted at the same time. The KEY-File must be next to the DF2-file in the same source directory on Windows. The K4Y-File must be next to the DF4-file in the same source directory on Windows. On Android you will be asked for each KEY/K4Y-file for every queued DF2 or DF4 file.
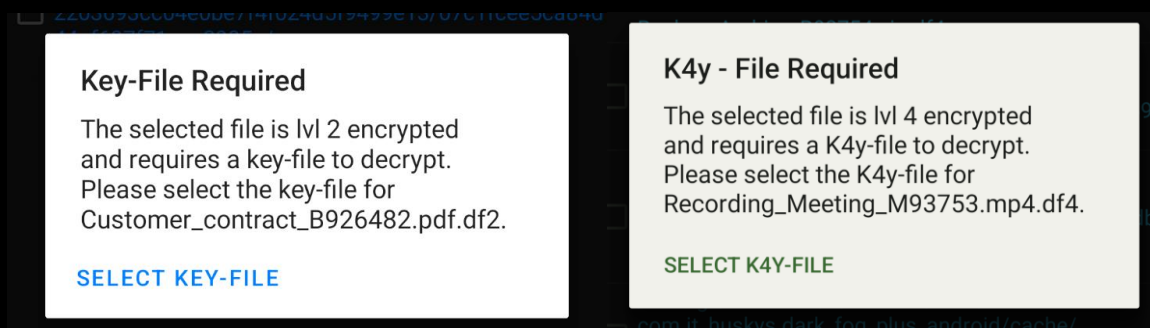
3 = Password who will be used to decrypt the files (up to 32 Symbols DF1/DF2 - up to 1024 Symbols DF3/DF4).

4 = Start decryption

The processed files will be in the same directory as the source files if not configured differently (Windows client).

In the Android client version, all processed files will always be in the folder "Internal Storage/Dark_Fog_Output", if **"File(s) selection"** was selected as the source. With the **"Folder(content) selection"** all files will be placed in the same directory as the source files, if not configured differently.
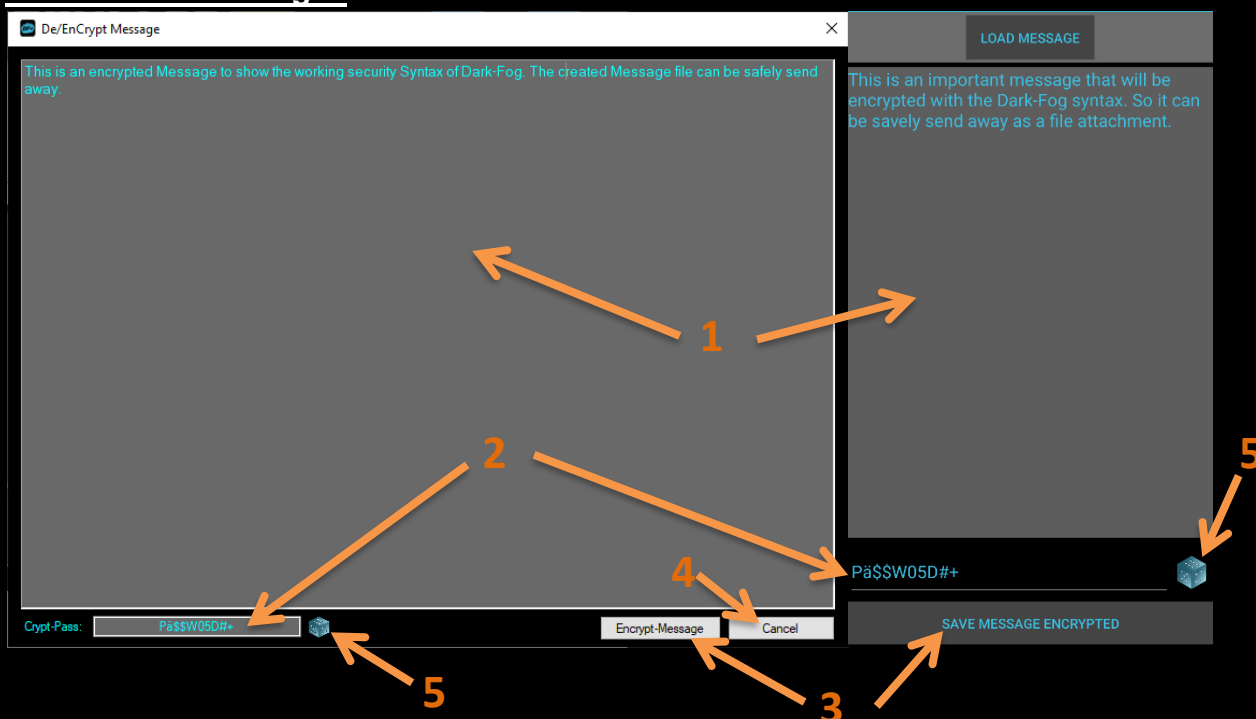
Task Complete

The decryption process has been completed! The decrypted file(s) has/ have been stored at: '/storage/6434-3962/work stuff'.
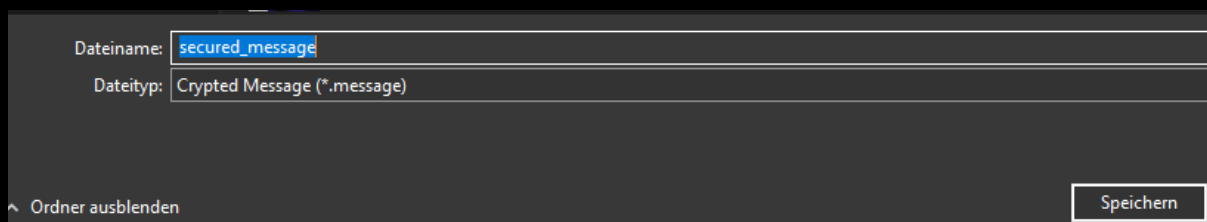
5.3 Crypt-Message

5.3.1 Create Messages

With this you can create a ".message" file to safely be stored and send to a permitted user.

1 = Message-Text – Writing anything in this area will activate the message encryption functionality

2 = Password (up to 32 Symbols – UTF8).

3 = Saves the message as an encrypted ".message" file

On the Windows client version, you can choose the location of the encrypted ".message" file. In the Android client version, all processed files will always be in the folder "Internal Storage/Dark_Fog_Output".

Task Complete

The encryption process has been completed! The encrypted file of Text Message has been stored at: 'Internal Storage/Dark_Fog_Output'.

The fixed preset output directory, is required by the google play-store security policy.

4 = Closes the Crypt-Message Form and resets all input

5 = Creates a random generated password with the maximum supported length (32). *The generated password is automatically copied into the clipboard(Copy & Paste memory) for custom saving.*

5.3.2 Get Messages

If you got a message, then you just take the ".message" file and drag ->

secured_message....

and drop it into the message-area (After you have entered the password). So you can now read it clearly:
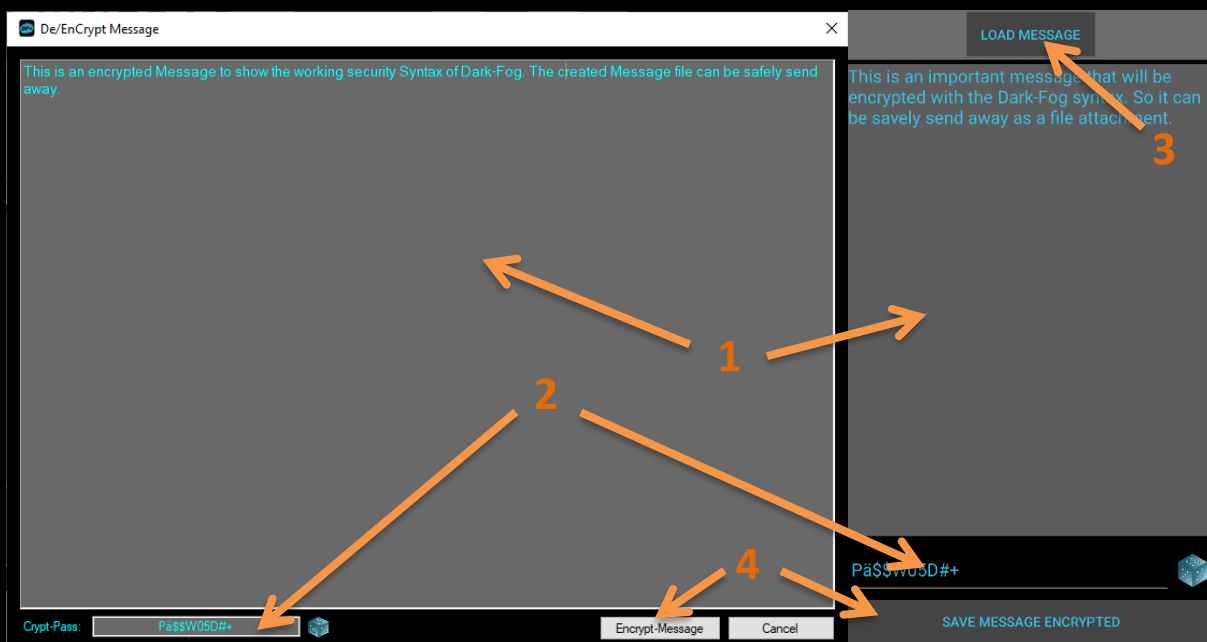

The Message file will be deleted after it got decoded and displayed.

1 = Message-Text – drop the ".message" file here (on Windows) **after** entering the password

2 = Password (up to 32 Symbols – UTF8).

3 = Load Message file – Password for the loaded message file will be asked after file selection (Android only)

4 = Re-Saves the message as an encrypted ".message" file

Development & Copyright

IT-Huskys Dev Group
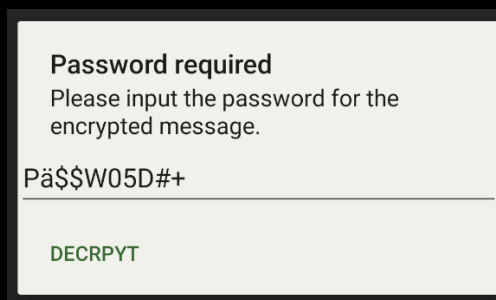
5.4 Info Menu

1 = Close Info-Menu and go back to the Main-Menu (only on the windows client)

2 = Information of the app, crypt-syntax version and user license information

3 = Open the website www.dark-fog.net in the default browser for news and update information's
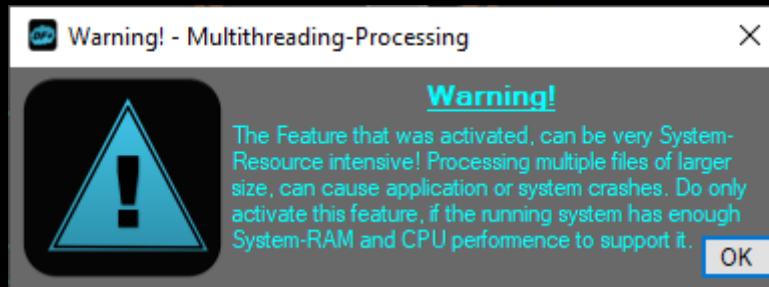
4 = Shows the functionality of all 4 Dark-Fog encryption features

5.5 Options Menu
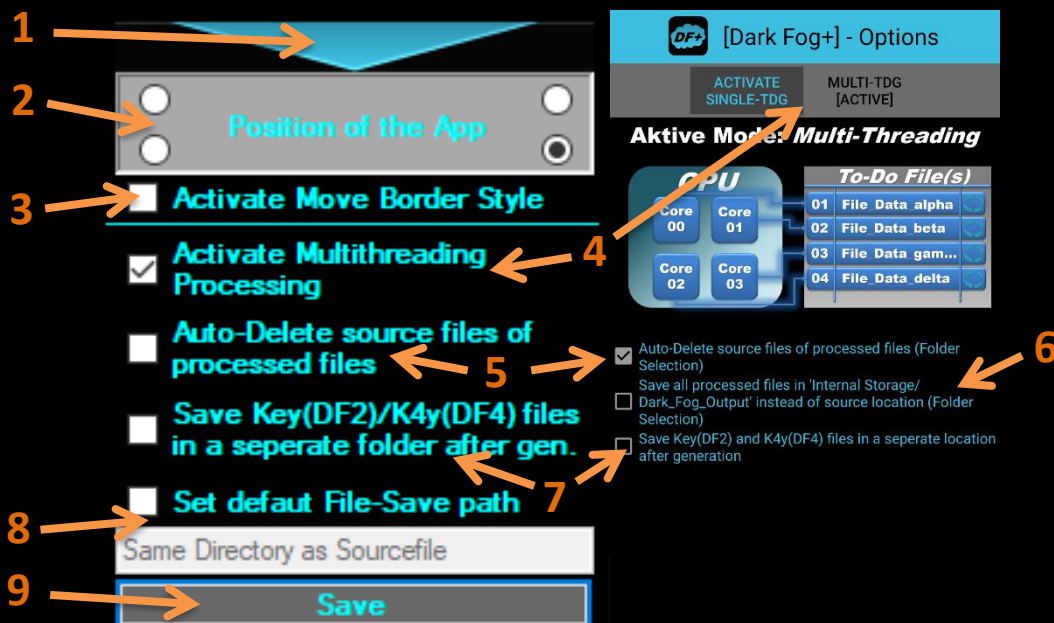
1 = Close Options-Menu and go back to the main-menu (Windows client only)

2 = position of the main-menu (Windows client only)

3 = enables to move the main-menu freely around (Windows client only)

4 = activates or deactivates Multithreading processing (will be saved instantly on the Android client)

5 = deletes the source file after the encrypted/decrypted file has been created (on Android only for "**Folder(content)"** selection as the source)

6 = relocates all created files (encryption and decryption) to "Internal Storage/Dark_Fog_Output" (Android only for "**Folder(content)"** selection as the source)

7 = creates a new folder "Key_Files" at the target destination of the encryption process and places all generated Key and K4y files in there. The Key/K4y files will no longer be generated next to the processed files

8 = Standard Save-Path (Standard (empty) = same directory as the source-file) (Windows client only)

9 = Save settings and go back to the main-menu (Windows client only)

6.0 Copyright & Usage

The base clients of Dark-Fog are completely free for the non-commercial/private use purpose. The premium (full feature) client version of Dark-Fog, a license is required that comes with a commercial use permission. This license must be purchased and given by the IT-Huskys Dev-Group.

All rights of this software and use permit are solely subject to IT-Huskys.

The use of this software is only permitted under the EULA of Dark-Fog.

In the case of problems or questions, these must be submitted in writing to https://www.dark-fog.net/contact.html .

6.1 Download & Source

6.1.1 Dark-Fog Client (Private User License)

Windows Client (x86, x64) - https://www.dark-fog.net/downloads_shop.html

Android Client (9 - 14) - https://play.google.com/store/apps/details?id=com.it_huskys.dark_fog_android

6.1.2 Dark-Fog+ [Premium] Client (Commercial User License)

Windows Client (x86, x64) - https://www.dark-fog.net/downloads_shop.html

Android Client (9 - 14) - https://play.google.com/store/apps/details?id=com.it_huskys.dark_fog_plus_android

For more information please visit:

https://www.dark-fog.net/

IT-Huskys Dev-Group

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