



# Grandstream Networks, Inc.

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GWN Router & Access Point Configuration File Tool

## **User Guide**

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## PROCESS OF MODIFYING CONFIGURATION FILE

1. Export the configuration file from the web UI of the device.
2. Use this tool to decrypt the configuration file.
3. Modify the decrypted configuration files.
4. Use this tool to encrypt and generate a new configuration file.
5. Import the new configuration file to the device.



## USAGE IN WINDOWS

### Decryption

If the configuration file contains a portal or certificate file, it will be output to the cfmanager directory; if it does not, it will be output to the cfmanager file.

### Command

- gscfgtool.exe -d xxx.bin  
Automatically detect type to decrypt xxx.bin
- gscfgtool.exe -d -t GWN7062 xxx.bin  
Specify type GWN7062 to decrypt xxx.bin
- TYPE:  
Router product model: GWN7062, GWN7052, GWN7052F, and etc.
- INPUT-FILE:  
Exported configuration file.

```
C:\Users\wjn\Desktop\windows>ls -lhr
total 6.4M
-rw-r--r-- 1 wjn None 702K May 21 11:34 config_GWN7062M_20260521113456.bin
-rwxr-xr-x 1 wjn None 5.7M May 21 15:47 gscfgtool.exe

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>. \gscfgtool.exe -d config_GWN7062M_20260521113456.bin
[INFO] Start processing...
[INFO] -----
[INFO] Start decrypting 1 file..
[INFO] -----
[INFO] Process 'C:\Users\wjn\Desktop\windows\config_GWN7062M_20260521113456.bin'
[INFO] Get type: 'GWN7062M'
[INFO] -----
[INFO] No type specified, try type 'GWN7062M'
[INFO] Decryption starts..
[INFO] Decryption successful !
[INFO] Decompression starts..
[INFO] Decompression successful !
[INFO] Check exist: portal(0) cert(1)
[INFO] Save to 'C:\Users\wjn\Desktop\windows\cfmanager'
[INFO] -----
[INFO] Processing completed.
[INFO] Succeeded !

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>ls -lhr
total 6.4M
-rw-r--r-- 1 wjn None 702K May 21 11:34 config_GWN7062M_20260521113456.bin
-rwxr-xr-x 1 wjn None 5.7M May 21 15:47 gscfgtool.exe
drwxr-xr-x 1 wjn None 0 May 21 15:54 cfmanager

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>
```

Figure 1. Automatically detect type and decrypt



```
C:\Users\wjn\Desktop\windows>ls -lhtr
total 5.7M
-rwxr-xr-x 1 wjn None 5.7M May 21 15:11 gscfgtool.exe
-rw-r--r-- 1 wjn None 3.9K May 21 15:18 cfmanager.bin

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>.\gscfgtool.exe -t GWN7062M -d cfmanager.bin
[INFO] Get type: 'GWN7062M'
[INFO] Start processing...
[INFO] -----
[INFO] Start decrypting 1 file...
[INFO] -----
[INFO] Process 'C:\Users\wjn\Desktop\windows\cfmanager.bin'
[INFO] Decryption starts...
[INFO] Decryption successful !
[INFO] Decompression starts...
[INFO] Decompression successful !
[INFO] Check exist: portal(0) cert(0)
[INFO] Save to 'C:\Users\wjn\Desktop\windows\cfmanager'
[INFO] -----
[INFO] Processing completed.
[INFO] Succeeded !

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>ls -lhtr
total 5.7M
-rwxr-xr-x 1 wjn None 5.7M May 21 15:11 gscfgtool.exe
-rw-r--r-- 1 wjn None 3.9K May 21 15:18 cfmanager.bin
-rw-r--r-- 1 wjn None 19K May 21 15:19 cfmanager

C:\Users\wjn\Desktop\windows>
```

Figure 2. Decrypt the cfmanager file



```

C:\Users\wjn\Desktop\windows>ls -lhr
total 6.4M
-rw-r--r-- 1 wjn None 702K May 21 11:34 config_GWN7062M_20260521113456.bin
-rwxr-xr-x 1 wjn None 5.7M May 21 15:11 gscfgtool.exe

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>.\gscfgtool.exe -t GWN7062M -d config_GWN7062M_20260521113456.bin
[INFO] Get type: 'GWN7062M'
[INFO] Start processing...
[INFO] -----
[INFO] Start decrypting 1 file...
[INFO] -----
[INFO] Process 'C:\Users\wjn\Desktop\windows\config_GWN7062M_20260521113456.bin'
[INFO] Decryption starts...
[INFO] Decryption successful !
[INFO] Decompression starts...
[INFO] Decompression successful !
[INFO] Check exist: portal(0) cert(1)
[INFO] Save to 'C:\Users\wjn\Desktop\windows\cfmanager'
[INFO] -----
[INFO] Processing completed.
[INFO] Succeeded !

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>ls -lhr
total 6.4M
-rw-r--r-- 1 wjn None 702K May 21 11:34 config_GWN7062M_20260521113456.bin
-rwxr-xr-x 1 wjn None 5.7M May 21 15:11 gscfgtool.exe
drwxr-xr-x 1 wjn None 0 May 21 15:21 cfmanager

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>ls -lhr cfmanager
total 20K
drwxr-xr-x 1 wjn None 0 Mar 9 18:05 certificates
-rw-r--r-- 1 wjn None 19K May 21 15:21 cfmanager

C:\Users\wjn\Desktop\windows>_

```

Figure 3. Decrypt the cfmanager directory

## Note

1. Decryption does not support batch operations.
2. Do not remove or modify the lines starting with "#GSCFGTOOL" in the cfmanager file. This is used to automatically detect the type during encryption.

## Encryption

### Command

- gscfgtool.exe -e INPUT-FILE
- gscfgtool.exe -e -a INPUT-FILE  
Automatically detect the type(Skip if type is not obtained), encrypt INPUT-FILE and generate INPUT-FILE.bin
- gscfgtool.exe -e -t TYPE INPUT-FILE  
Specify type TYPE to encrypt INPUT-FILE to generate INPUT-FILE.bin
- gscfgtool.exe -e -a -t TYPE INPUT-FILE



Automatically detect the type (Use TYPE if type is not obtained), encrypt INPUT-FILE and generate INPUT-FILE.bin

- TYPE:  
Router product model: GWN7062, GWN7052, GWN7052F, and etc.
  
- INPUT-FILE:  
Exported configuration file, can be specified multiple times.



```

C:\Users\wjn\Desktop\windows>ls -lhtr
total 5.7M
-rwxr-xr-x 1 wjn None 5.7M May 21 15:11 gscfgtool.exe
-rw-r--r-- 1 wjn None 19K May 21 15:21 cfmanager_file
drwxr-xr-x 1 wjn None 0 May 21 15:25 cfmanager_dir

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>. \gscfgtool.exe -e cfmanager_file cfmanager_dir
[INFO] Start processing...
[INFO] -----
[INFO] Start encrypting 2 files or directories...
[INFO] -----
[INFO] Process 'C:\Users\wjn\Desktop\windows\cfmanager_file'
[INFO] Is file
[INFO] Add mac
[INFO] Get type: 'GWN7062M'
[INFO] Compression starts...
[INFO] Compression successful !
[INFO] Encryption starts...
[INFO] Encryption successful !
[INFO] Save to 'C:\Users\wjn\Desktop\windows\cfmanager_file.bin'
[INFO] -----
[INFO] Process 'C:\Users\wjn\Desktop\windows\cfmanager_dir'
[INFO] Is directory
[INFO] Add mac
[INFO] Get type: 'GWN7062M'
[INFO] Check exist: portal(0) cert(1)
[INFO] Add certificates\
[INFO] Compression starts...
[INFO] Compression successful !
[INFO] Encryption starts...
[INFO] Encryption successful !
[INFO] Save to 'C:\Users\wjn\Desktop\windows\cfmanager_dir.bin'
[INFO] -----
[INFO] Processing completed.
[INFO] Succeeded(2) Failed(0)

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>ls -lhtr
total 5.8M
-rwxr-xr-x 1 wjn None 5.7M May 21 15:11 gscfgtool.exe
-rw-r--r-- 1 wjn None 19K May 21 15:21 cfmanager_file
-rw-r--r-- 1 wjn None 3.9K May 21 15:25 cfmanager_file.bin
-rw-r--r-- 1 wjn None 47K May 21 15:25 cfmanager_dir.bin
drwxr-xr-x 1 wjn None 0 May 21 15:25 cfmanager_dir

C:\Users\wjn\Desktop\windows>

```

Figure 4. Automatically detect type and encrypt multiple files in batches



```

C:\Users\wjn\Desktop\windows>ls -lhr
total 5.7M
-rwxr-xr-x 1 wjn None 5.7M May 21 15:11 gscfgtool.exe
-rw-r--r-- 1 wjn None 19K May 21 15:21 cfmanager_file
drwxr-xr-x 1 wjn None 0 May 21 15:25 cfmanager_dir

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>.\gscfgtool.exe -t GWN7062M -e cfmanager_file cfmanager_dir
[INFO] Get type: 'GWN7062M'
[INFO] Start processing...
[INFO] -----
[INFO] Start encrypting 2 files or directories..
[INFO] -----
[INFO] Process 'C:\Users\wjn\Desktop\windows\cfmanager_file'
[INFO] Is file
[INFO] Add mac
[INFO] Compression starts...
[INFO] Compression successful !
[INFO] Encryption starts...
[INFO] Encryption successful !
[INFO] Save to 'C:\Users\wjn\Desktop\windows\cfmanager_file.bin'
[INFO] -----
[INFO] Process 'C:\Users\wjn\Desktop\windows\cfmanager_dir'
[INFO] Is directory
[INFO] Add mac
[INFO] Check exist: portal(0) cert(1)
[INFO] Add certificates\
[INFO] Compression starts...
[INFO] Compression successful !
[INFO] Encryption starts...
[INFO] Encryption successful !
[INFO] Save to 'C:\Users\wjn\Desktop\windows\cfmanager_dir.bin'
[INFO] -----
[INFO] Processing completed.
[INFO] Succeeded(2) Failed(0)

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>ls -lhr
total 5.8M
-rwxr-xr-x 1 wjn None 5.7M May 21 15:11 gscfgtool.exe
-rw-r--r-- 1 wjn None 19K May 21 15:21 cfmanager_file
-rw-r--r-- 1 wjn None 3.9K May 21 15:27 cfmanager_file.bin
-rw-r--r-- 1 wjn None 47K May 21 15:27 cfmanager_dir.bin
drwxr-xr-x 1 wjn None 0 May 21 15:27 cfmanager_dir

C:\Users\wjn\Desktop\windows>_

```

Figure 5. Encrypt multiple files in batches by specifying the type



```
C:\Users\wjn\Desktop\windows>ls -lhr
total 5.7M
-rwxr-xr-x 1 wjn None 5.7M May 21 15:11 gscfgtool.exe
-rw-r--r-- 1 wjn None 19K May 21 15:21 cfmanager_file
drwxr-xr-x 1 wjn None 0 May 21 15:30 cfmanager_dir

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>.\gscfgtool.exe -e cfmanager_file cfmanager_dir
[INFO] Start processing...
[INFO] -----
[INFO] Start encrypting 2 files or directories...
[INFO] -----
[INFO] Process 'C:\Users\wjn\Desktop\windows\cfmanager_file'
[INFO] Is file
[INFO] Add mac
[INFO] Get type: 'GWN7062M'
[INFO] Compression starts...
[INFO] Compression successful !
[INFO] Encryption starts...
[INFO] Encryption successful !
[INFO] Save to 'C:\Users\wjn\Desktop\windows\cfmanager_file.bin'
[INFO] -----
[INFO] Process 'C:\Users\wjn\Desktop\windows\cfmanager_dir'
[INFO] Is directory
[ERROR] Open src file failed: No such file or directory(C:\Users\wjn\Desktop\windows\cfmanager_dir\cfmanager)
[WARN] Copy failed: (C:\Users\wjn\Desktop\windows\cfmanager_dir\cfmanager) (etc/config/cfmanager)
[INFO] -----
[INFO] Processing completed.
[INFO] Succeeded(1) Failed(1)

C:\Users\wjn\Desktop\windows>
C:\Users\wjn\Desktop\windows>ls -lhr
total 5.8M
-rwxr-xr-x 1 wjn None 5.7M May 21 15:11 gscfgtool.exe
-rw-r--r-- 1 wjn None 19K May 21 15:21 cfmanager_file
drwxr-xr-x 1 wjn None 0 May 21 15:30 cfmanager_dir
-rw-r--r-- 1 wjn None 3.9K May 21 15:30 cfmanager_file.bin

C:\Users\wjn\Desktop\windows>_
```

Figure 6. Partial success and partial failure during batch encryption

## Note

1. The name of the generated configuration is to add ".bin" after the original name. If the original file name is the same, it will be overwritten, such as "cfmanager", "etc/config/cfmanager".
2. Only configuration files decrypted by gscfgtool.exe with version no less than 1.1.3 support automatic detection of type when encrypted.

