



GRANDSTREAM GWN Router Configuration File Tool User Guide

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GRANDSTREAM GWN Router Configuration File Tool



Product Information

Product	Router Configuration File Tool
Manufacturer	Grandstream Networks Inc.
Version	1.1.1
Date	2023/6/23

Product Usage Instructions

Process of Modifying Configuration File

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

Usage in Linux

Decryption Command

`./gscfgtool -t TYPE -f INTPUT-FILE -d TYPE:`

Type:

Router product model: GWN7062, GWN7052, GWN7052F, GWN7001, GWN7002, GWN7003.

INTPUT-FILE:

Exported configuration file.

Example of successful decryption in Linux:

Usage in Windows

Decryption Command:

`./gscfgtool -t TYPE -f INPUT-FILE -d TYPE:`

Type:

Router product model: GWN7062, GWN7052, GWN7052F, GWN7001, GWN7002, GWN7003.

INPUT-FILE:

Exported configuration file.

PROCESS OF MODIFYING CONFIGURATION FILE

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

USAGE IN LINUX

Decryption Command

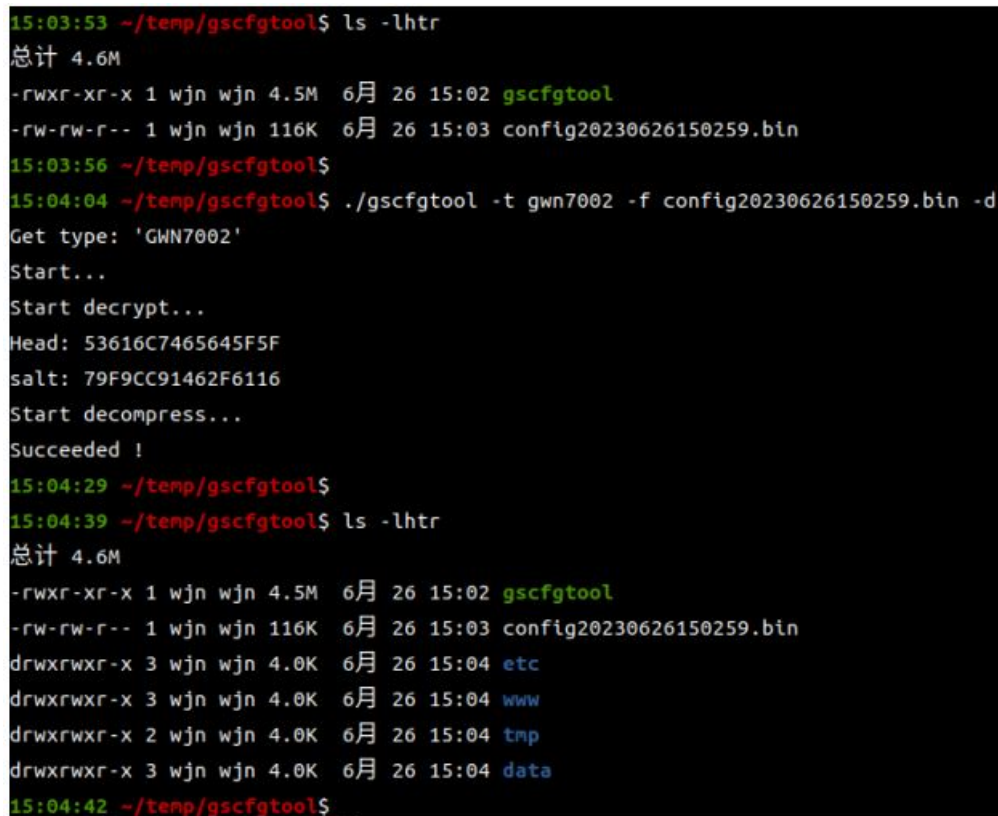
`./gscfgtool -t TYPE -f INPUT-FILE -d`

TYPE:

Router product model: GWN7062, GWN7052, GWN7052F, GWN7001, GWN7002, GWN7003.

INPUT-FILE:

Exported configuration file.



```
15:03:53 ~/temp/gscfgtool$ ls -lhtr
总计 4.6M
-rwxr-xr-x 1 wjn wjn 4.5M  6月 26 15:02 gscfgtool
-rw-rw-r-- 1 wjn wjn 116K  6月 26 15:03 config20230626150259.bin
15:03:56 ~/temp/gscfgtool$
15:04:04 ~/temp/gscfgtool$ ./gscfgtool -t gwn7002 -f config20230626150259.bin -d
Get type: 'GWN7002'
Start...
Start decrypt...
Head: 53616C7465645F5F
salt: 79F9CC91462F6116
Start decompress...
Succeeded !
15:04:29 ~/temp/gscfgtool$
15:04:39 ~/temp/gscfgtool$ ls -lhtr
总计 4.6M
-rwxr-xr-x 1 wjn wjn 4.5M  6月 26 15:02 gscfgtool
-rw-rw-r-- 1 wjn wjn 116K  6月 26 15:03 config20230626150259.bin
drwxrwxr-x 3 wjn wjn 4.0K  6月 26 15:04 etc
drwxrwxr-x 3 wjn wjn 4.0K  6月 26 15:04 www
drwxrwxr-x 2 wjn wjn 4.0K  6月 26 15:04 tmp
drwxrwxr-x 3 wjn wjn 4.0K  6月 26 15:04 data
15:04:42 ~/temp/gscfgtool$
```

Figure 1: Example of successful decryption in Linux

```
15:06:35 ~/temp/gscfgtool$ ./gscfgtool -t gwn7001 -f config20230626150259.bin -d
Get type: 'GWN7001'
Start...
Start decrypt...
Head: 53616C7465645F5F
salt: 79F9CC91462F6116
EVP_CipherFinal_ex() failed !
error:1C800064:Provider routines::bad decrypt
Failed !
15:07:12 ~/temp/gscfgtool$ _
```

Figure 2: Example of decryption failure in Linux (using wrong type)

Note

The decrypted configuration file will be stored in the program running directory, see “data/”, “etc/config/”, “www/”, “tmp/”.

Encryption

Command

`./gscfgtool -t TYPE -f INPUT-FILE -e`

TYPE:

Router product model: GWN7062, GWN7052, GWN7052F, GWN7001, GWN7002, GWN7003.

OUTPUT-FILE:

New configuration file.

```
15:09:23 ~/temp/gscfgtool$ ls -lhtr
总计 4.5M
-rwxr-xr-x 1 wjn wjn 4.5M 6月 26 15:02 gscfgtool
drwxrwxr-x 3 wjn wjn 4.0K 6月 26 15:04 etc
drwxrwxr-x 3 wjn wjn 4.0K 6月 26 15:04 www
drwxrwxr-x 2 wjn wjn 4.0K 6月 26 15:04 tmp
drwxrwxr-x 3 wjn wjn 4.0K 6月 26 15:04 data
15:09:24 ~/temp/gscfgtool$
15:09:25 ~/temp/gscfgtool$ ./gscfgtool -t gwn7002 -f config.bin -e
Get type: 'GWN7002'
Start...
Start compress...
- data/certificates
- data/sg.sqlite3
- etc/config/grandstream
- etc/config/cfmanager
- www/portal
- tmp/mac
- data/certificates/ca
- www/portal/images
- www/portal/js
- www/portal/style
- www/portal/default.html
- www/portal/index.html
- www/portal/images/icon_user_nor.png
- www/portal/images/icon_password_nor.png
- www/portal/images/image_default_7062.png
- www/portal/images/close.png
- www/portal/images/image_default_7052.png
- www/portal/images/image_default.png
- www/portal/js/main.js
- www/portal/js/vue.min.js
- www/portal/js/vconsole.min.js
- www/portal/js/axios.min.js
- www/portal/style/index.css
- www/portal/style/index.scss
```

```

- www/portal/style/index.css.map
Start encrypt...
salt: 03415021164F3455
Succeeded !
15:09:51 ~/temp/gscfgtool$
15:09:59 ~/temp/gscfgtool$ ls -lhtr
总计 4.6M
-rwxr-xr-x 1 wjn wjn 4.5M 6月 26 15:02 gscfgtool
drwxrwxr-x 3 wjn wjn 4.0K 6月 26 15:04 etc
drwxrwxr-x 3 wjn wjn 4.0K 6月 26 15:04 www
drwxrwxr-x 2 wjn wjn 4.0K 6月 26 15:04 tmp
drwxrwxr-x 3 wjn wjn 4.0K 6月 26 15:04 data
-rw-rw-r-- 1 wjn wjn 118K 6月 26 15:09 config.bin
15:11:35 ~/temp/gscfgtool$

```

Figure 3: Example of successful encryption in Linux

```

15:14:30 ~/temp/gscfgtool$ ls -lhtr
总计 4.5M
-rwxr-xr-x 1 wjn wjn 4.5M 6月 26 15:02 gscfgtool
drwxrwxr-x 3 wjn wjn 4.0K 6月 26 15:04 etc
drwxrwxr-x 2 wjn wjn 4.0K 6月 26 15:04 tmp
drwxrwxr-x 3 wjn wjn 4.0K 6月 26 15:04 data
15:14:32 ~/temp/gscfgtool$
15:14:33 ~/temp/gscfgtool$ ./gscfgtool -t gwn7002 -f config.bin -e
Get type: 'GWN7002'
Start...
Start compress...
- data/certificates
- data/sg.sqlite3
- etc/config/grandstream
- etc/config/cfmanager
opendir('www') failed: No such file or directory
Failed !
15:14:36 ~/temp/gscfgtool$

```

Figure 4: Example of encryption failure in Linux (missing "www" directory)

Note

The program running directory needs four directories "data/", "etc/config/", "www/" and "tmp/" to generate configuration file.

USAGE IN WINDOWS

Decryption

Command

gscfgtool.exe -t TYPE -f INPUT-FILE -d

TYPE:

Router product model: GWN7062, GWN7052, GWN7052F, GWN7001, GWN7002, GWN7003.

INPUT-FILE:

Exported configuration file.

```
命令提示符
C:\Users\wjin\Desktop\windows>
C:\Users\wjin\Desktop\windows>ls -lht
total 5.0M
-rwxr-xr-x 1 wjin None 330K Feb 15 17:36 7z.exe
-rwxr-xr-x 1 wjin None 1.2M Feb 15 17:36 7z.dll
-rwxr-xr-x 1 wjin None 3.4M Jun 26 15:23 gscfgtool.exe
-rw-r--r-- 1 wjin None 116K Jun 26 15:23 config20230626150259.bin

C:\Users\wjin\Desktop\windows>
C:\Users\wjin\Desktop\windows>gscfgtool.exe -t gwn7002 -f config20230626150259.bin -d
Get type: 'GWN7002'
Start...
Start decrypt...
Head: 53616C7465645F5F
salt: 79F9CC91462F6116
Start decompress...
cmd: [7z x -tgzip -bso0 tar.gz.PlkAlM -so | 7z x -ttar -aaa -bso0 -si]
Successfully !
Decompression successfully !
Succeeded !

C:\Users\wjin\Desktop\windows>
C:\Users\wjin\Desktop\windows>ls -lht
total 5.0M
-rwxr-xr-x 1 wjin None 330K Feb 15 17:36 7z.exe
-rwxr-xr-x 1 wjin None 1.2M Feb 15 17:36 7z.dll
-rwxr-xr-x 1 wjin None 3.4M Jun 26 15:23 gscfgtool.exe
-rw-r--r-- 1 wjin None 116K Jun 26 15:23 config20230626150259.bin
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 etc
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 www
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 tmp
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 data

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

Figure 5: Example of successful decryption in Windows

```
C:\Users\wjin\Desktop\windows>gscfgtool.exe -t gwn7001 -f config20230626150259.bin -d
Get type: 'GWN7001'
Start...
Start decrypt...
Head: 53616C7465645F5F
salt: 79F9CC91462F6116
EVP_CipherFinal_ex() failed !
error:1C800064:Provider routines::bad decrypt
Failed !

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

Figure 6: Example of decryption failure in Windows(using wrong type)

Note

1. The decrypted configuration file will be stored in the program running directory, see “data/”, “etc/config/”, “www/”, “tmp/”;
2. “gscfgtool.exe” depends on “7z.exe” and “7z.dll”, which we have provided. If the “7z.exe” we provided doesn’t work properly or you want a newer version, you can download it from “<https://www.7-zip.org/>”;
3. Note that “7z.exe” and “7z.dll” must be in the same directory as “gscfgtool.exe” or in any directory specified by the environment variable “PATH”.

Encryption

Command

gscfgtool.exe -t TYPE -f OUTPUT-FILE -e

TYPE:

Router product model: GWN7062, GWN7052, GWN7052F, GWN7001, GWN7002, GWN7003.

OUTPUT-FILE:

New configuration file.


```
选择 命令提示符

C:\Users\wjin\Desktop\windows>ls -lhtr
total 4.9M
-rwxr-xr-x 1 wjin None 330K Feb 15 17:36 7z.exe
-rwxr-xr-x 1 wjin None 1.2M Feb 15 17:36 7z.dll
-rwxr-xr-x 1 wjin None 3.4M Jun 26 15:23 gscfgtool.exe
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 etc
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 www
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 tmp
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 data

C:\Users\wjin\Desktop\windows>
C:\Users\wjin\Desktop\windows>gscfgtool.exe -t gwn7002 -f config.bin -e
Get type: 'GWN7002'
Start...
Start compress...
cmd: [7z a dummy -ttar data etc/config www tmp]
cmd: [7z a dummy -ttar data etc/config www tmp -so | 7z a dummy -tgzip -si -so \> tar.gz
.PlkAlM]
Successfully !
Compression successfully !
Start encrypt...
salt: F63775DF5CFBA40D
Succeeded !

C:\Users\wjin\Desktop\windows>
C:\Users\wjin\Desktop\windows>ls -lhtr
total 5.0M
-rwxr-xr-x 1 wjin None 330K Feb 15 17:36 7z.exe
-rwxr-xr-x 1 wjin None 1.2M Feb 15 17:36 7z.dll
-rwxr-xr-x 1 wjin None 3.4M Jun 26 15:23 gscfgtool.exe
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 etc
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 www
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 tmp
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 data
-rw-r--r-- 1 wjin None 114K Jun 26 15:37 config.bin

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

Figure 7: Example of successful encryption in Windows

```
命令提示符

C:\Users\wjin\Desktop\windows>ls -lhtr
total 4.9M
-rwxr-xr-x 1 wjin None 330K Feb 15 17:36 7z.exe
-rwxr-xr-x 1 wjin None 1.2M Feb 15 17:36 7z.dll
-rwxr-xr-x 1 wjin None 3.4M Jun 26 15:23 gscfgtool.exe
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 etc
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 tmp
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 data

C:\Users\wjin\Desktop\windows>
C:\Users\wjin\Desktop\windows>gscfgtool.exe -t gwn7002 -f config.bin -e
Get type: 'GWN7002'
Start...
Start compress...
cmd: [7z a dummy -ttar data etc/config www tmp]
cmd: [7z a dummy -ttar data etc/config www tmp -so | 7z a dummy -tgzip -si -so \> tar.gz
.PlkAlM]

WARNING: 系统找不到指定的文件。
www

Scan WARNINGS for files and folders:

www : 系统找不到指定的文件。
-----
Scan WARNINGS: 1
Successfully !
Compression successfully !
Start encrypt...
salt: 137AEBC8C204E880
Succeeded !

C:\Users\wjin\Desktop\windows>ls -lhtr
total 4.9M
-rwxr-xr-x 1 wjin None 330K Feb 15 17:36 7z.exe
-rwxr-xr-x 1 wjin None 1.2M Feb 15 17:36 7z.dll
-rwxr-xr-x 1 wjin None 3.4M Jun 26 15:23 gscfgtool.exe
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 etc
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 tmp
drwxr-xr-x 1 wjin None 0 Jun 26 15:32 data
-rw-r--r-- 1 wjin None 4.9K Jun 26 15:39 config.bin


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

Figure 8: Example of encryption failure in Windows(missing "www/" directory)

Note

1. The program running directory needs four directories “data/”, “etc/config/”, “www/” and “tmp/” to generate configuration file;
2. “gscfgtool.exe” depends on “7z.exe” and “7z.dll”, which we have provided. If the “7z.exe” we provided doesn’t work properly or you want a newer version, you can download it from “https://www.7- zip.org/”;
3. Note that “7z.exe” and “7z.dll” must be in the same directory as “gscfgtool.exe” or in any directory specified by the environment variable “PATH”.

Documents / Resources

 Grandstream Networks, Inc. Router Configuration File Tool User Guide Version: 1.1.1 Date: 2024/03	<u>GRANDSTREAM GWN Router Configuration File Tool</u> [pdf] User Guide GWN Router Configuration File Tool, Router Configuration File Tool, Configuration File Tool, File Tool
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