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# Log File Masking Utility User Guide

Using the Utility

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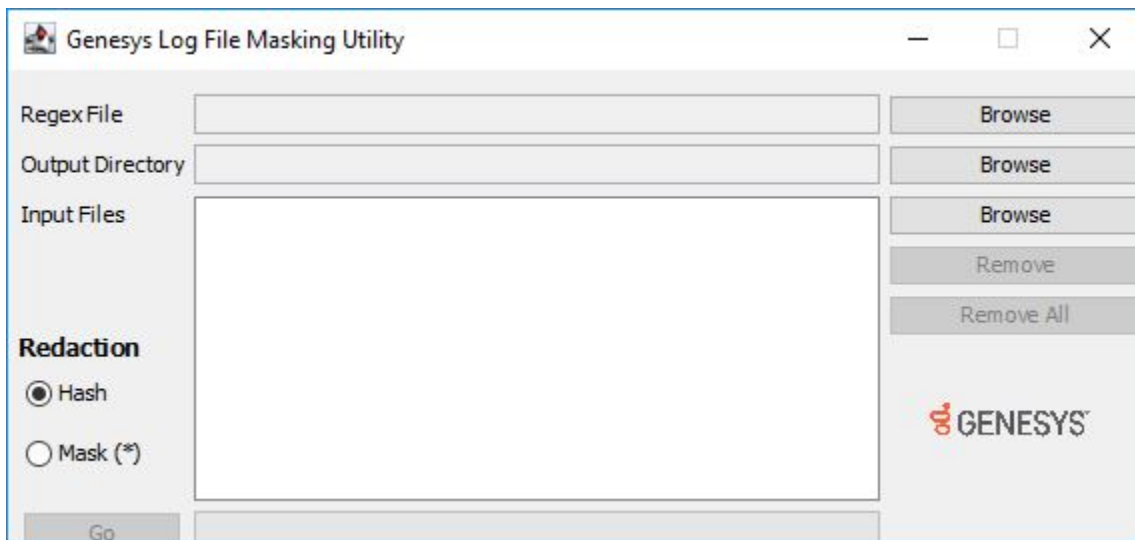
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# Using the Utility

## UI Mode

The Genesys Care Log File Masking Utility (LFMU) has been designed as an executable .jar file, opening the file, with no command line arguments, on a GUI OS, using a supported Java Runtime Environment, will display the main LFMU interface.



Using this interface, the user must provide three inputs:

1. **Regex File** – The file containing regular expressions to determine which characters will be masked.
  2. **Output Directory** – The location where the Log File Masking Utility will place the processed log files; **this must be a directory**.
  3. **Input Files** – One or more files that will be processed by the Log File Masking Utility using the regular expressions found in the Regex File. This can be any plain text file.
- Each input location provides a **Browse** button that allows the user to select a file or folder from the local file system.
  - Removing individual files from the **Input Files** list can be completed by selecting (or multi-selecting) files in the pane and clicking the **Remove** button.
  - All files in the **Input Files** pane can be removed by clicking the **Remove All** button.
  - When all three inputs are provided to the LFMU, the **Go** button will be enabled.
  - Clicking the **Go** button will start the process of masking data.
  - A status bar will show the tool's progress.

- When the masking is completed, the processed files will be available in the **Output Directory** location with the suffix and extension *\_mskd.log*.

New to the LFMU 9 UI are the "Redaction" options:

1. **Hash** (default) to hash the matched values
2. **Mask** to "\*" the matched values

## Command Line Mode

The LFMU can now be used using command line arguments, this enables flexibility and automation. To view the LFMU command line argument options, use "**java -jar LFMU-9.x.xxx.xx.jar -h**"  
The LFMU command line options being:

```
-h, --help           This help
-l, --logPath <arg> Log File Name Path (Mandatory)
-m, --mask           Enable encoding Mask ("*") - For sensitive data use the default
encryption
-o, --outpath <arg>  Log File Destination Directory (Mandatory)
-r, --rgxCFile <arg> Regex Configuration File PATH/Name (Mandatory)
-t, --threads <arg> Number of Threads (default 10 - Max 50) - Adjust as needed
```

### Command Line Mode - Example 1 - Hash/Encrypt

The example usage below:

- Processes ALL the **.log** files in the **C:\LOGS** directory - this is the **-l** argument
- Outputs the **Hashed** files to the **C:\tmp** directory - this is the **-o** argument
- The input files are matched/hashed based on the **connID.txt** Regex file - this is the **-r** argument
- Note the outputted **mskd.map** file, which is also in **C:\tmp**; this contains the *hashed to original* values for correlation/analysis

```
C:\LFMU-9.0.000.00>java -jar LFMU-9.0.000.00.jar -l C:\LOGS\*.log -o C:\tmp\ -r connID.txt
-----
Genesys Care - Genesys Log File Masking Utility 9.0.000.00
-----
Working from directory: C:\LFMU-9.0.000.00

Using the following Parameters:
--
Path for Input Log Files: LOGS\
Regex Config File:      connID.txt
Output Log Path:       C:\tmp\
Encode Encryption Mode: true
-----

Start Encoding 50 files @ 2020/08/28 09:42:08

Processing File N.: ( 1 ) C:\LOGS\sj0_sip_a.20200718_050929_064.log
Processing File N.: ( 11 ) C:\LOGS\sj0_sip_a.20200719_201635_840.log
Processing File N.: ( 21 ) C:\LOGS\sj0_sip_a.20200722_003141_859.log
Processing File N.: ( 31 ) C:\LOGS\sj0_sip_a.20200816_165636_821.log
Processing File N.: ( 41 ) C:\LOGS\sj0_sip_a.20200817_232634_541.log

----- ENCODE DONE!-----

Code Mapping File Generated @: C:\tmp\mskd.map

Encoding Ends @ 2020/08/28 09:42:41
Total Duration in Seconds: 32
-----
```

An example of the **Hashed** content being:

- AttributeConnID ACC313D648E9907221466EE00BDE5B8B
- AttributeConnID D8C97E4C482AFD1C0CD4D3201579FC8F
- AttributeConnID 023CE218A53605C0A04231A79E0ED0BD

An example of the content of **mskd.map** being:

- 8F579D7F05607436981DBC2C88B08857 <==:==> 007602fd7d42a494
- 004B736BBE797DD101557B29C10FDF9 <==:==> 0069030117e580de
- 02DC7565E3F5A308DD50A135E00350AA <==:==> 0068030117e581fd

The content of the **connID.txt** Regex file being:

- \tAttributeConnID\t(\S\S\S\S\S\S\S\S\S\S\S\S\S\S\S\S)

## Command Line Mode - Example 2 - Mask

The example usage below:

- Processes ALL the **.log** files in the **C:\LOGS** directory - this is the **-l** argument
  - Outputs the **Masked** files to the **C:\tmp** directory - this is the **-o** argument
  - The input files are matched/masked based on the **connID.txt** Regex file - this is the **-r** argument
-

- Given the "-m" argument, the outputted files in **C:\tmp** are **Masked** with "\*" characters as opposed to hashed

```
C:\LFMU-9.0.000.00>java -jar LFMU-9.0.000.00.jar -l C:\LOGS\*.log -o C:\tmp\ -r connID.txt -m
-----
Genesys Care - Genesys Log File Masking Utility 9.0.000.00
-----
Working from directory: C:\LFMU-9.0.000.00

Using the following Parameters:
--
Path for Input Log Files: LOGS\
Regex Config File:      connID.txt
Output Log Path:       C:\tmp\
Encode Encryption Mode: false
-----

Start Encoding 50 files @ 2020/08/28 17:04:58

Processing File N.: ( 1 ) C:\LOGS\sjo_sip_a.20200718_050929_064.log
Processing File N.: ( 11 ) C:\LOGS\sjo_sip_a.20200719_201635_840.log
Processing File N.: ( 21 ) C:\LOGS\sjo_sip_a.20200722_003141_859.log
Processing File N.: ( 31 ) C:\LOGS\sjo_sip_a.20200816_165636_821.log
Processing File N.: ( 41 ) C:\LOGS\sjo_sip_a.20200817_232634_541.log

----- ENCODE DONE!-----

Encoding Ends @ 2020/08/28 17:05:29
Total Duration in Seconds: 30
-----
```

An example of the **Masked** content being:

- Line 356633: AttributeConnID \*\*\*\*\*
- Line 356680: AttributeConnID \*\*\*\*\*
- Line 356712: AttributeConnID \*\*\*\*\*

The content of the **connID.txt** Regex file being:

- \tAttributeConnID\t(\S\S\S\S\S\S\S\S\S\S\S\S\S\S\S\S)