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# Log File Management Tool Deployment and User's Guide

Regular Expressions

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# Regular Expressions

This section describes how to create regular expressions used for custom indexes by LFMT Indexer and/or sensitive data scrubbing by LFMT Collector.

## Important

- Genesys does not create, validate or support customer regular expressions required within LFMT
- Genesys regex guidance made be provided, but the customer is responsible for creation, validation, testing and support of user defined LFMT regexes
- Genesys strongly recommends the customer comprehensively tests the regular expressions that you want to use for LFMT Indexing and Scrubbing before you define them in the LFMT Client
- A good resource to test LFMT Regexes would be the Genesys [Log File Masking Utility \(LFMU\)](#) as it uses the same Regex Engine approach for masking log files

## Creating Regular Expressions

- LFMT regular expressions are created using Java Regular Expression protocol. In the case of both indexing and scrubbing, regular expression *groups* identify the data to be indexed or scrubbed.
- Given the following regular expression:

|                          |          |       |  |       |
|--------------------------|----------|-------|--|-------|
| <input type="checkbox"/> | CallUUID | index | <code>\tAttributeCallUUID\t'(\S+)</code> | WINII |
|--------------------------|----------|-------|--|-------|

The regular expression will attempt to match:

1. `\t` - A *tab* character.
  2. **AttributeCallUUID** - The text *AttributeCallUUID*.
  3. `\t` - A *tab* character.
  4. `'` - A single quote.
  5. **\S+** - A number of non-whitespace characters.
  6. `'` - A single quote.
- In the above expression, the **()** surround the **\S+** so as to define it as a *group*.
  - The text matched inside the *group* will be that which is indexed in the database, or scrubbed from the file.

- Applying the expression above to the following application log file as an index.

```
@12:39:20.5370 [0] 8.1.101.69 distribute call/party event: message EventCallDataChanged
  AttributeEventSequenceNumber 000000000010bf8e
  AttributeTimeStamp 56be0ab8000831a8
  AttributeConnID 0075027b50bf1dd8
  AttributeCallUUID 'D0PIFCQ87H5MH67ITU9179MC50000VEO'
  AttributeCtrlParty '6000'
  AttributeUserData [2] 00 00..
12:39:20.537 Int 04544 Interaction message "EventCallDataChanged" generated
```

Creates an entry in the LFMT Database where - **CallUUID = D0PIFCQ87H5MH67ITU9179MC50000VEO**

### Tip

Tools like **Regex Coach** (<http://www.weitz.de/regex-coach/>) can be used to test the syntax of the regular expressions.