



Report

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Using Agent via command line interface (CLI) executable

Previously (versions prior to 3.0) it was possible to call the Agent executable with parameters to change classification/distribution/compliance of a file from command line.

Starting with version 3.0 we do ship a separate CLI executable with each Agent installation (**GVClient.CLI.Windows.exe**) that can be used to:

- → manually apply a given classification to a file.
- → manually apply a given distribution to a file.
- → manually apply a given compliance to a file.
- → apply classification/distribution/compliance as described in Expert Configuration, section **externalLabelMappings**.

NOTE: For the CLI functionality to work as expected in this document Agent version 3.5.9 is required

What does it do?

By calling the CLI with parameters we run actions listed in previous paragraph and as a result **ADD** or **OVERWRITE** metadata of requested file.

What does it not do?

- → It is not possible to REMOVE any metadata from the file, you can only ADD or OVERWRITE.
- → It is not possible to add visual markings to the file (December 2023).
- → No machine learning capabilities we need user to provide required classification/compliance/distribution as parameter.

Supported files

NOTE: This tool **DO NOT** currently support all Data Classification-supported files as per the document located here: <u>Forcepoint</u> <u>Data Classification Powered by Getvisibility Synergy Supported File Types</u>

It only supports files that have metadata. So, for example DOC/XLS/PPT files are NOT SUPPORTED.

Setup and functionality

Basic functionality and parameters

To classify a file using CLI and add PCI compliance you can run it as:

GVClient.CLI.Windows.exe filename.docx --silent --overwrite --save --tag e16409a7-1700-4153-9090-3955bc2f0ae8/Classification/Confidential --tag f14fc1f1-8950-40d5-8a29-45909da947d6/PCI/true

- --silent Optional. Silent executes the command in the background.
- → --save Optional. A "Save" parameter is required to write changes to the files. W/o "save" the commands are executed in a "dry-run" mode
- → --tag Optional. Tag parameter specifies what labels to write to a file.

- --map-external Optional. Map-external will use the mapping specified in the configuration under the "externalLabelMappings" stanza, as shown in the screenshot below. This parameter checks file's metadata with the regex specified in the configuration and applies a GV label specified in tagset and tag sections of the externalLabelMapping stanza of the configuration.
- -- **--overwrite** Optional. Overwrite means to disregard all existing GV tags inside of a file. For example, if we want to tag a file, and a file is already tagged by GV, then we will not overwrite GV tag if the overwrite option is specified.

Running CLI will result in logs being shown in the console. You can redirect the logs to a file or null device if you are running the CLI for multiple files.

Sample result:

figure 1.

Applying classification based on existing metadata content.

Other limitations

User under which the CLI is executed needs access/write rights to a file you are trying to modify. This may cause issues if CLI is executed under different user context.

This is specifically true for any DLP since it is not executing script in user context, rather SYSTEM.

Troubleshooting

NOTE: Verify customer is using Agent with at least version 3.5.9

- → Log files for CLI can be located at: %AppData%\Roaming\GVClient.CLI.Windows\Logs
- → Example of log after running CLI with --map-external:

```
INFORMATION: Loading metadata from "C:\tools\bj\BJ Files\file-sample_1MB.docx" - 14 entries.

INFORMATION: Loading metadata from "GVClient.Common.Utils.Base64EncodedMetadataDictionary" - 1 entries.

DEBUG: Reading tagset e16409a7-1700-4153-9090-3955bc2f0ae8/Classification...

DEBUG: Reading value for tag Classification

DEBUG: Getproperty value Confidential

DEBUG: Property value is NOT equal to tagTemplate

DEBUG: ReadTagsetValue finished

DEBUG: WriteMetadataTagsetValues started

DEBUG: GetInternalMetadataAccessor started

DEBUG: GetInternalMetadataAccessor finished

INFORMATION: Loading metadata from "C:\tools\bj\BJ Files\file-sample_1MB.docx" - 14 entries.

INFORMATION: Loading metadata from "GVClient.Common.Utils.Base64EncodedMetadataDictionary" - 1 entries.

DEBUG: Writing tagset e16409a7-1700-4153-9090-3955bc2f0ae8/Classification...

INFORMATION: Saved metadata to "GVClient.Common.Utils.Base64EncodedMetadataDictionary" - 1 entries.

DEBUG: Updating Confidential -> Confidential

INFORMATION: Document saved.
```

figure 2.

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