EasySave

Technical Documentation V2.0

Technical specifications

File Configuration

Files must have the following configuration:

- Name
- Type (complete or differential)
- Source directory
- Destination directory

Configuration File

The configuration file is located in "C:\Users\%username%\Downloads\ConfigPath".

This JSON or XML file (depending on the selected format) contains:

Log Files

Daily Log

The daily log file, which contains a real-time history of actions taken on backup jobs, can be found in "C:\Users\%username%\Downloads\ConfigPath". It contains:

- Timestamp
- Backup job name
- Full address of the source file (UNC format)
- Full address of the destination file (UNC format)
- File size
- File transfer time in milliseconds (negative if error)
- File encryption time in milliseconds
  - 0: no encryption
  - > 0: encryption time (ms)
  - <0: error code

State Log

The state log file contains real-time information on the progress of backup jobs, can be found in "C:\Users\%username%\Downloads\ConfigPath". It contains:

The state log contains:

- Backup job name
- Timestamp
- Backup job state (e.g. Active, Inactive, etc.).

Pipeline

The pipelines ensure an optimal deployment, because it allows to verify that the application is compilable. Each modification on a critical branch of the git will automatically trigger this process which ensures a perennial program.

Business software

Business softwares that are defined by the user block the launch of a save work if they are running. If a business software is launched during the execution of a sequential save work, the application completes the current save work and stops before the next one starts.

File encryption

The files are encrypted using an external software called CryptoSoft. This encrypts files whose extensions have been defined in the settings, when a save work is executed. The type of encryption used is XOR encryption, using a randomly generated 64-bit key.