HDSHREDDER

Command Line Interface

User Manual and Command Reference

Secure, reproducible and automated disk erasure

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About This Manual

This manual describes how to operate HDShredder from the command line. It is based on the supplied help output of the main application and the auto, standard and manual modes, as well as the separately supplied definition of the CLI return codes.

> **Data Loss**
>
> HDShredder permanently erases the contents of disks. Before every run, verify the selected disk specification, operating mode and all parameters. After successful erasure, recovery of the deleted data is generally not possible.

CLI output, path syntax, available disk identifiers and the behavior of individual hardware commands may vary depending on the operating system, product edition, licensing and program version. If in doubt, refer to the help output provided by your specific program version.

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1. Introduction

1.1 Purpose and Scope

HDShredder CLI enables script-controlled and unattended erasure of disks. The command-line interface is particularly suitable for standardized workflows, production environments, service processes, PXE or native systems, and integration into batch, shell and automation scripts.

- Select disks using reproducible device identifiers
- Run erasure methods automatically, according to a specified standard, or with custom patterns
- Define error thresholds and maximum error-recovery times
- Generate final reports as PDF or text
- Shut down or restart the system after completion depending on the result
- Execute multiple commands sequentially using command files
- Evaluate results using defined process return codes

1.2 Requirements

- A valid HDShredder license covering the required functionality
- Sufficient access rights for the disks to be erased
- No competing application using the target disk exclusively
- For network or license-server operation: reachable network services and the correct server address
- For native/Linux automation: correctly configured shutdown and restart functions

1.3 Safety Principles

1. Always identify the target disk first using listdisks.
2. Do not reuse device identifiers from old logs if the hardware configuration has changed.
3. Before production use, perform a test with a disposable disk.
4. Write reports to a permanently available and writable destination.
5. Evaluate return codes in the calling script; do not rely solely on the existence of a report file.
6. Enable automatic shutdown only after the complete workflow has been validated.

2. Program Invocation and Syntax

2.1 General Invocation Forms

```
hdshredder-cli <mode> [device indicators...] [options...]
hdshredder-cli [options...] --CmdFile=<command file>
```

On Windows, the executable may be named hdshredder-cli.exe. In scripts, either specify the full path or add the program directory to the PATH environment variable.

2.2 Syntax Conventions

Notation	Meaning
literal	Text to be entered literally, e.g. auto or --Timeout
<value>	Required value; do not enter the angle brackets
[Option]	Optional element
[=<value>]	The option may be used without a value or with an explicit value
A|B	Choose one of the specified values
--Name=<value>	CLI option with value assignment and no spaces around the equals sign

2.3 Displaying Help

```
hdshredder-cli --help
hdshredder-cli auto --help
hdshredder-cli standard --help
hdshredder-cli manual --help
```

Invoking help is considered a successful program invocation and returns code 0.

3. Operating Modes

Mode	Purpose	Documentation status
listdisks	List all available disks and drives	Listed in the main help
auto	Automatic selection of an erasure method by security level	Fully documented from source file
standard	Erasure according to a named standard	Fully documented from source file
manual	Manual definition of patterns, repetitions and verification	Fully documented from source file
secureerase	Hardware-/firmware-based Secure Erase method	Only listed as available
sanitize	Hardware-/firmware-based Sanitize method	Only listed as available
hwbased	Hardware-based erasure method	Only listed as available
shell	Interactive CLI command shell	Basic functionality documented

3.1 listdisks

The listdisks mode lists the disks or drives detected by HDShredder. The output provides the specifications that can subsequently be used with --Drv.

```
hdshredder-cli listdisks
```

Output:

```
Disk search started... (Press Ctrl+C to abort)


Name: Lexar SSD NM7A1 2TB-ns1
Size: 2.05 TB - 4,000,797,360 sectors of 512 bytes
Serial number: 0000_0006_2308_2491_BBCC_1234_9876_1111
Revision:       9742
Controller type: NVMe

Partition table (GPT):
· 1:  105 MB - EFI System partition
· 2: 16,8 MB - Microsoft Reserved Partition (MSR)
· 3: 275 GB - Local Disk (C:)
· 4: 1,77 TB - Code (D:)
· 5: 1,87 GB - Recovery

Use this disk as follows:
by name/serial number:
   --Drv=dname:Lexar_SSD_NM7A1_2TB-ns1
   --Drv=dname:Lexar_SSD_NM7A1_2TB-ns1#0000_0006_2308_2491_BBCC_1234_9876_1111
by name/serial number (compatibility mode):
   --Drv=Lexar_SSD_NM7A1_2TB-ns1
   --Drv=Lexar_SSD_NM7A1_2TB-ns1#0000_0006_2308_2491_BBCC_1234_9876_1111
by size:
   --Drv=dsize:2.05T
by partition table type/ID or disk signature:
   --Drv=pttype:GPT
   --Drv=did:{DF57C39C-9E71-42DB-B814-CAC510632067}
   --Drv=sig:{DF57C39C-9E71-42DB-B814-CAC510632067}

WINDOWS ONLY
by physical disk number:
   --Drv=win:0
by port:
   --Drv=port:0/0/2/0
by physical disk number (compatibility mode):
   --Drv=0
```

> **Recommendation**
>
> Run listdisks immediately before an erasure run and additionally document the manufacturer, model, serial number and capacity of the selected disk.

3.2 auto

The auto mode performs automatic erasure using a selected security level. HDShredder determines the specific technical method within the selected level.

Value	Alias	Meaning
fast	1	Fast erasure, lowest security
medium	2	Medium security
safe	3	Slow erasure, high security

```
hdshredder-cli auto --Drv=win:1 --Method=medium
```

3.3 standard

The standard mode erases the disk according to a named erasure standard or a predefined procedure. Specify the standard using --Method.

Method	Designation / origin
bsi	BSI standard (Germany)
vsitr	VSITR standard (Germany)
afssi	Air Force standard (USA)
ar380	Army standard (USA)
dod28	Department of Defense (DoD) standard, variant 28 (USA)
dod22	Department of Defense (DoD) standard, variant 22 (USA)
nscs	National Computer Security Centre (UK)
hmgis5e	HMG Infosec Standard 5 enhanced (UK)
hmgis5b	HMG Infosec Standard 5 baseline (UK)
gost	GOST standard (Russia)
rcmptss	RCMP TSS standard (Canada)
gutmann	Gutmann method
schneier	Schneier method
pfitzner	Pfitzner method

> **Context**
>
> The method names document the keywords accepted by the program. This manual does not infer from them any current regulatory approval or suitability for a specific compliance case.

3.4 manual

The manual mode allows you to define a custom overwrite sequence. A primary pattern, an alternating pattern, the number of repetitions, a final pattern and verification passes can be combined.

```
hdshredder-cli manual --Drv=win:1 --XPattern=00 --XAltPattern=FF --
XRepetitions=3 --XFinalPattern=00 --XFinalPatternVerify=on
```

3.5 secureerase, sanitize and hwbased

The secureerase and sanitize modes start the hardware-based Secure Erase and Sanitize methods respectively. Note that the disk must support the relevant method. If you are unsure which device-based erasure method is available, select hwbased mode.

```
hdshredder-cli secureerase --Drv=win:1  ...
hdshredder-cli sanitize --Drv=win:1 –Method=<method> ...
hdshredder-cli hwbased --Drv=win:1  ...
```

The following three methods are available for sanitize: "overwrite", "blockerase" and "cryptoscramble". The disk must support the selected method.

No method can be selected in secureerase mode; the erasure method provided by the hardware is always used.

In hwbased mode, the program automatically selects whether secureerase or sanitize should be used for a disk and, for sanitize, which method to apply, because not all disks support both modes.

4. Disk Selection

4.1 Option --Drv

```
--Drv=<specification>
```

Use --Drv to specify the disk to be erased. The specification must use the format output by listdisks.

Example	Description
--Drv=win:1	Select a disk identified by the Windows CLI as win:1
--Drv=dname:Lexar_SSD_NM7A1_2TB-ns1	Select using a disk name output by listdisks
--Drv=dname:Lexar_SSD_NM7A1_2TB-ns1#0000_0006_2308_2491_BBCC_1234_9876_1111	Select using a disk name and serial number output by listdisks, for example when multiple identical disks differ only by serial number.

> **System Disk Protection**
>
> The disk containing the Windows system drive cannot be selected as the target disk. This does not replace manual verification of the selection.

> **Recommendation**
>
> Disk names may also contain wildcards. For example, all models from the manufacturer "Seagate" can be selected by specifying --Drv=dname:Seagate*. This matches both Seagate00EARS and Seagate18EBCS.

4.2 Safe Selection in Scripts

- Refresh the device list before selecting a device
- For dynamic selection, check multiple attributes where possible, such as device identifier, model, serial number and capacity
- Treat ambiguous or missing matches as errors
- Do not continue automatically after a hardware configuration change
- Log the final --Drv specification before starting

5. General Options

Option	Default	Description
--AppDelay=<seconds>	0	Delay before starting the application. This can give Symobi time to activate required services.
--Timeout=<seconds>	20	Time limit for various operations, including disk search and activation.
--OTA	-	Perform a single activation.
--Interactive	-	Extension to single activation; enables activation even without an Internet connection.
--LMAddr=<address>	-	Specify the license server address.
--Reboot[=<condition>]	-	Restart the system after completion depending on the condition.
--Shutdown[=<condition>]	-	Shut down the system after completion depending on the condition.
--MaxSpeed=<speed>	-	Limit device speed in MB/s.
--Report=<file>	-	Specify the final report file; if no extension is provided, .pdf is appended.
--ReportType=<type>	-	Specify report type pdf or txt if it cannot be determined from the file extension.
--ReportMandatory	-	For automatic shutdown, specify that errors writing the report prevent shutdown.

5.1 Start Delay and Timeout

--AppDelay delays the actual application start. This is particularly intended for environments in which services are not immediately available after system startup. --Timeout controls the maximum wait time for various internal operations. A value that is too short may cause avoidable errors with slow hardware, network activation or disk detection.

```
hdshredder-cli auto --Drv=win:1 --Method=safe --AppDelay=10 --Timeout=60
```

5.2 Licensing

--OTA starts a single activation. --Interactive extends this process for situations without a direct Internet connection. --LMAddr specifies the address of a license server. Unsuccessful license checks return code 2.

```
hdshredder-cli standard --Drv=win:1 --Method=bsi --LMAddr=192.168.1.20
```

5.3 Shutdown and Restart

Condition	Behavior
always	Always shut down or restart.
essential	Shut down or restart if no abort caused by an unrecoverable error occurred.
complete	Shut down or restart only if the operation completed without errors.

```
hdshredder-cli auto --Drv=win:1 --Method=medium --Shutdown=complete
```

> **Default Parameter**
>
> The value of the --Shutdown parameter is optional. If no value is specified, "always" is assumed.

5.4 Speed Limitation

--MaxSpeed limits the device speed in MB/s. This can be useful for reducing I/O load, thermal load or the load on shared controllers.

```
hdshredder-cli manual --Drv=win:1 --XPattern=00 --XRepetitions=1 --MaxSpeed=150
```

5.5 Final Reports

Use --Report to specify the destination file for the final report. If the file extension is omitted, HDShredder appends .pdf. Use --ReportType to explicitly select pdf or txt if the type cannot be determined from the file name.

```
hdshredder-cli auto --Drv=win:1 --Method=safe --Report=C:\Reports\disk-001.pdf
hdshredder-cli standard --Drv=win:2 --Method=bsi --Report=/reports/disk-002 --
ReportType=txt
```

> **Language-Dependent Report Output**
>
> For Turkish, Polish and Russian, the report language is switched to English for PDF output if characters cannot be represented completely. If no type is specified, txt is the default for these languages.

--ReportMandatory affects automatic shutdown: errors writing the final report prevent automatic shutdown so that the user can read the program output instead. This option has no effect with --Shutdown=always.

6. Common Shredder Options

Option	Description
--SmartDefectSkip=NO|yes	Disable or enable SmartDefectSkip mode.
--MaxErrorCount=<count>	Maximum permitted number of errors; unlimited by default.
--MaxErrorTime=<seconds>	Maximum time permitted for processing defective sectors; unlimited by default.
--XFormat[=<type>]	Format the disk after completion using FAT, ExFAT, NTFS, HFS+ or ext4.
--XTrim=Always|AFTER	Run TRIM before and after the erasure pass, or only afterwards.

6.1 SmartDefectSkip

--SmartDefectSkip enables or disables SmartDefectSkip mode. It uses an improved erasure strategy that is not linear, but skips areas with defective sectors and erases them afterwards. This achieves maximum data erasure in the shortest possible time, even on defective disks.

> **Availability**
>
> This option is not available for hardware-based erasure.

6.2 Error Thresholds

--MaxErrorCount limits the number of permitted errors. --MaxErrorTime limits the total time that may be spent erasing defective sectors. If a defined threshold is exceeded, HDShredder may abort with return code 15.

```
hdshredder-cli auto --Drv=win:1 --Method=safe --MaxErrorCount=100 --
MaxErrorTime=600
```

> **Return-Code Priority**
>
> Completion with read/write errors returns code 9. This takes precedence over code 8 for verification errors. An abort because a threshold was exceeded is reported as 15.

> **Availability**
>
> This option is not available for hardware-based erasure.

6.3 Formatting After Completion

--XFormat formats the disk after erasure. If no type is explicitly specified, the program selects FAT or NTFS based on the size to be formatted. For reproducible automation, specify the type explicitly.

Type	File system
FAT	File Allocation Table
ExFAT	Extended File Allocation Table
NTFS	New Technology File System
HFS+	Hierarchical File System Plus
ext4	Fourth Extended Filesystem

```
hdshredder-cli auto --Drv=win:1 --Method=medium --XFormat=NTFS
```

6.4 TRIM

--XTrim=Always runs a TRIM pass before and after each individual erasure pass. --XTrim=After runs TRIM only after the final erasure pass. If no value is specified for --XTrim, "After" mode is selected.

```
hdshredder-cli auto --Drv=win:1 --Method=safe --XTrim=Always
```

7. Manual Erasure Patterns

Option	Description
--XPattern=<pattern>	Primary erasure pattern as a hexadecimal number or RANDOM.
--XAltPattern=<pattern>	Alternating erasure pattern.
--XPatternVerify[=on|OFF]	Run or disable a verification pass after the primary pattern.
--XAltPatternVerify[=on|OFF]	Run or disable a verification pass after the alternating pattern.
--XRepetitions=<repetitions>	Number of overwrite cycles from 1 to 99.
--XFinalPattern=<pattern>	Final erasure pattern after the repetition cycles.
--XFinalPatternVerify[=on|OFF]	Verify or disable verification after the final pattern.

7.1 Pattern Specification

Patterns are specified as hexadecimal numbers. RANDOM is also permitted for --XPattern. A random number is generated at the start and used as the pattern for the erasure run; new random numbers are not generated continuously during the operation.

```
hdshredder-cli manual --Drv=win:1 --XPattern=00 --XRepetitions=1
hdshredder-cli manual --Drv=win:1 --XPattern=RANDOM --XRepetitions=1
```

7.2 Alternating and Final Patterns

--XAltPattern adds an alternating pattern to the primary pattern. --XFinalPattern defines an additional pattern written after completion of the repetition cycles.

```
hdshredder-cli manual --Drv=win:1 --XPattern=AA --XAltPattern=55 --
XRepetitions=3 --XFinalPattern=00
```

7.3 Verification

A subsequent verification pass can be enabled (on) or disabled (off) for the primary, alternating and final patterns. If verification errors are detected and there are no higher-priority read/write errors, the program returns code 8.

```
hdshredder-cli manual --Drv=win:1 --XPattern=00 --XPatternVerify=on --
XRepetitions=1
```

7.4 Repetitions

--XRepetitions accepts values from 1 to 99. A value outside this range terminates the program with a parameter error.

8. Command Files

8.1 Purpose and Invocation

One or more command files can be executed using --CmdFile. Separate multiple files with commas. Each file contains one or more lines in the format <mode> [parameters...]. By default, the lines are executed sequentially until the end of the file is reached or a command returns a value other than crSuccess.

```
hdshredder-cli --CmdFile=job1.cmd
hdshredder-cli --CmdFile=job1.cmd,job2.cmd
```

8.2 Command File Example

```
hdshredder-cli auto --Drv=win:1 --Method=safe –Report=C:\Reports\disk1.pdf
hdshredder-cli standard --Drv=win:2 --Method=bsi –Report=C:\Reports\disk2.pdf
hdshredder-cli manual --Drv=win:3 --XPattern=00 --XRepetitions=1 --Report=C:
\Reports\disk3.pdf
```

8.3 Option Order

> **Important**
>
> Command-file options must be specified before --CmdFile. They are valid only when command-file mode is used.

```
hdshredder-cli --ContinueOnError --SyslogOnlyAtEnd --CmdFile=jobs.cmd
```

8.4 Command File Options

Option	Default / effect
--CmdFileTimeout=<seconds>	Depending on the source of the command file (external disk, network drive, etc.), a wait time can be specified so that the source becomes available. The default is 20 seconds.
--ContinueOnError	Continue with the next command after an unsuccessful command.
--BreakOnError	Default: stop on an error.
--SyslogOnlyAtEnd	Write the syslog only at the end instead of after each application.
--SyslogEachTime	Default: write the syslog after each completed application.
--ShutdownOnError	Native/Linux: power off at the end even if an error occurred.
--NoShutdownOnError	Native/Linux, default: do not shut down if an error occurred.
--NoShutdownAtEnd	Native/Linux: do not shut down after the command file.
--ShutdownAtEnd	Native/Linux, default: shut down after the command file.
--RestartAtEnd	Native/Linux: restart instead of shutting down at the end.
--RestartOnError	Native/Linux: restart instead of shutting down if an error occurs.

8.5 Settings within the Command File

Settings in the command file correspond to the CLI options of the same name, but use a dollar sign instead of two hyphens. Options specified on the command line override settings in the command file.

```
$ContinueOnError
$SyslogOnlyAtEnd
$RestartAtEnd
hdshredder-cli auto --Drv=win:1 --Method=safe
hdshredder-cli auto --Drv=win:2 --Method=safe
$NoRestartAtEnd
```

Only within the command file, $NoRestartAtEnd and $NoRestartOnError are additionally available to disable previously set restart options.

9. Return Codes

HDShredder CLI terminates the process with a numeric return code. Automation scripts should evaluate this value immediately after the program ends. A report or console output does not replace this check.

Code	Constant	Meaning
0	crSuccess	Completed successfully or invoked with --help.
1	crParameter	Invalid, conflicting or duplicate parameter.
2	crLicense	License expired, invalid or insufficient for the requested function.
3	crSize	Size-related parameter outside the permitted range.
4	crDisk	Source or target disk not found, or access/locking not possible.
5	crFile	Required parameter file inaccessible, not found, empty or of the wrong type.
6	crPassword	Password missing or does not match.
7	crAbort	Aborted by the user.
8	crVerify	Operation completed with verification errors.
9	crReadWrite	Operation completed with read or write errors; takes precedence over crVerify.
10	crDouble	Aborted because another instance is already running.
11	crRestartApp	The application must be restarted by the user.
12	crMissingService	A required service is missing or not running.
13	crServiceDenied	A required service denied the requested action.
14	crServerDenied	A remote server, e.g. RAS or SMB, denied a required action or information.
15	crOverThreshold	Aborted because a determined threshold was exceeded, such as too many errors or excessive error-recovery time.
99	crInternal	Internal or other error; an additional error code is printed on the console.

9.1 Priorities and Interpretation

- 0 indicates not only a completed erasure run, but also a successful help invocation.
- 9 explicitly takes precedence over 8 if both read/write and verification errors occur.
- 15 indicates a controlled abort caused by defined thresholds.
- 99 should be logged together with the console output and the additional error code printed there.
- For command files, --ContinueOnError or --BreakOnError determines whether further lines are executed after an error.

9.2 Evaluation on Windows

```
hdshredder-cli.exe auto --Drv=win:1 --Method=safe
set RC=%ERRORLEVEL%
if %RC% EQU 0 (

) else (

  exit /b %RC%
)
```

9.3 Evaluation in PowerShell

```
& .\hdshredder-cli.exe auto --Drv=win:1 --Method=safe
$rc = $LASTEXITCODE
if ($rc -ne 0) {
    Write-Error "HDShredder-Fehler: $rc"
    exit $rc
}
```

9.4 Evaluation on Linux

```
hdshredder-cli auto --Drv=dname:disk1 --Method=safe
rc=$?
if [ "$rc" -ne 0 ]; then
  echo "HDShredder-Fehler: $rc" >&2
  exit "$rc"
fi
```

10. Practical Examples

10.1 Automatic Erasure with Report

```
hdshredder-cli auto --Drv=win:1 --Method=safe --Report=C:\Reports\disk-001.pdf
```

The disk win:1 is erased using the automatic safe security level. A PDF report is then written.

10.2 Automatic Erasure with Error Thresholds

```
hdshredder-cli auto --Drv=win:1 --Method=medium --MaxErrorCount=50 --
MaxErrorTime=300 --Report=C:\Reports\disk-001.pdf
```

The run is terminated if the number of errors or the maximum time for processing defective sectors exceeds the specified threshold.

10.3 Erasure According to a Named Standard

```
hdshredder-cli standard --Drv=win:2 --Method=bsi --Report=C:
\Reports\disk-002.pdf
```

10.4 Custom Single-Pass Run with Verification

```
hdshredder-cli manual --Drv=win:3 --XPattern=00 --XPatternVerify=on
--XRepetitions=1 --Report=C:\Reports\disk-003.pdf
```

10.5 Alternating Patterns and Final Zero Pattern

```
hdshredder-cli manual --Drv=win:4 --XPattern=AA --XAltPattern=55
--XRepetitions=3 --XFinalPattern=00 --XFinalPatternVerify=on
```

10.6 Formatting After Successful Erasure

```
hdshredder-cli auto --Drv=win:5 --Method=safe --XFormat=NTFS
--Report=C:\Reports\disk-005.pdf
```

10.7 Automatic Shutdown Only After Error-Free Completion

```
hdshredder-cli auto --Drv=win:1 --Method=safe --Report=/reports/disk-001.pdf
--ReportMandatory --Shutdown=complete
```

The system is only shut down if the process completed without errors. With --ReportMandatory, an error while writing the report can prevent the shut down.

10.8 License Server with Extended Timeout

```
hdshredder-cli standard --Drv=win:1 --Method=vsitr --LMAddr=licenseserver.local
--Timeout=60
```

10.9 Multiple Disks Using a Command File

```
hdshredder-cli --ContinueOnError --SyslogOnlyAtEnd --CmdFile=nightly.cmd
```

The command file is processed completely even if individual commands do not end with crSuccess. The syslog is written only at the end.

11. Error Analysis and Troubleshooting

Symptom / return code	Possible cause	Check / corrective action
1 - Parameter	Option misspelled, value missing, option duplicated or conflicting	Compare the command with the mode-specific --help output; check equals signs and values.
2 - License	License expired, invalid or required functionality not included	Check license status, activation, --LMAddr, network and product edition.
4 - Disk	Device not found, identifier changed or access cannot be locked	Run listdisks again; check running applications and mounts.
5 - File	Report, CmdFile or another file is not accessible	Check path, permissions, volume availability and file type; increase --CmdFileTimeout if necessary.
8 - Verification	Written data does not match during verification	Check disk condition, connection, controller and error log.
9 - Read/Write	I/O error on the disk or transmission path	Check SMART/diagnostics, cables, backplane, power supply and controller.
10 - Second Instance	HDShredder läuft bereits	Check running processes and automated duplicate starts.
12/13 - Service	Service missing, not running or denying the action	Check service status, startup order, permissions and --AppDelay.
14 - Server	Remote service denies access	Check credentials, shares, network, RAS/SMB permissions and server logs.
15 - Threshold	MaxErrorCount or MaxErrorTime exceeded	Assess thresholds and disk condition; do not increase them blindly.
99 - Internal	Unclassified internal error	Save the complete console output including the additional code and collect support data.

11.1 Collecting Diagnostic Information

- Complete command line without sensitive passwords
- Program version and product edition
- Operating system or native/Symobi environment
- listdisks output
- Disk model, serial number, capacity and interface
- Return code and complete console output
- Report and syslog files
- Time of the error and reproducible steps

12. Quick Command Reference

12.1 General Syntax

```
hdshredder-cli <mode> [device indicators...] [options...]
```

12.2 General Options

Option	Brief description
--AppDelay=<seconds>	Delay before starting the application. This can give Symobi time to activate required services.
--Timeout=<seconds>	Time limit for various operations, including disk search and activation.
--OTA	Perform a single activation.
--Interactive	Extension to single activation; enables activation even without an Internet connection.
--LMAddr=<address>	Specify the license server address.
--Reboot[=<condition>]	Restart the system after completion depending on the condition.
--Shutdown[=<condition>]	Shut down the system after completion depending on the condition.
--MaxSpeed=<speed>	Limit device speed in MB/s.
--Report=<file>	Specify the final report file; if no extension is provided, .pdf is appended.
--ReportType=<type>	Specify report type pdf or txt if it cannot be determined from the file extension.
--ReportMandatory	For automatic shutdown, specify that errors writing the report prevent shutdown.

12.3 Auto Mode

```
hdshredder-cli auto --Drv=<specification> --Method=fast|medium|safe [options...]
```

12.4 Standard Mode

```
hdshredder-cli standard --Drv=<specification> --Method=<standard> [options...]
```

12.5 Manual Mode

```
hdshredder-cli manual --Drv=<specification> --XPattern=<pattern> [options...]
```

12.6 Command File

```
hdshredder-cli [command-file options...] --CmdFile=<file>[,<file>...]
```

13. File Variable Reference

13.1 General Syntax

```
@name@
```

The variables may be used anywhere in file paths specified for erasure certificate output (Report), including both directory and file names.

13.2 Variables

Variable	Meaning	Example
@date@	Date	2026-03-30
@time@	Time	12.30.57
@timestamp@	Timestamp	20260330-122057
@dt:<specifier>@	Date & time (user-defined)	2026-03-30 (Wednesday)
@unique@	Unique number	BD5281
@sysid@	System ID	16A097D5-03AE-5D48-B3EB-94BB4389B948
@sysprod@	System product name	Mini IT13
@sysvend@	System manufacturer	GEEKOM
@sysserial@	System serial number	5198011C23520879

13.3 Time/Date Specifiers

Option	Meaning	Result
yy / yyyy	Year	26 / 2026
M / MM / MMM / MMMM	Month	9 / 09
d / dd	Day	4 / 04 / Apr / April
w / ww / www / wwww	Day of week	3 / 03 / Wed / Wednesday
h / hh	Hour	6 / 06
m / mm	Minute	5 / 05
s / ss	Second	3 / 03

13.4 Examples

```
--Report="C:\@date@\@time@ System @sysserial@ (@sysvend@ @sysprod@).pdf"
--Report="\Server\@sysid@\Erasure on @dt:dd.MM.yyyy at hh-mm@.pdf"
```

Appendix A - Checklist Before Production Erasure Runs

Check item	Completed
Program version and license checked	☐
Current listdisks output generated	☐
Target disk verified using multiple attributes	☐
System disk and disks not to be erased excluded	☐
Erasure mode and method approved	☐
Error thresholds defined or deliberately left unlimited	☐
Report path accessible and writable	☐
Return-code evaluation tested in the script	☐
Shutdown/restart behavior tested	☐
Test run with a disposable disk completed successfully	☐