



Swedish Certification Body for IT Security

Certification Report - Blancco File Eraser 8.2

Issue: 1.0, 2017-nov-30

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1 Executive Summary

Blancco File Eraser 8.2 is a software utility for secure erasure of files and free disk space. There are three editions:

- Home Edition - with graphical user interface , runs on Windows 7, 8, and 10.
- Enterprise Edition - with graphical user interface and command-line interface, runs on Windows 7, 8, and 10.
- Data Center Edition - with graphical user interface and command-line interface, runs on Windows 7, 8, 10, and Windows Server 2008, and 2012.

The evaluation covers both 32 bit and 64 bit versions of Windows, and the file systems FAT32, exFAT, and NTFS.

The TOE also works on older Windows versions, but these are outside the evaluated configuration. Also, the Management Console is outside the scope of the evaluation.

The Security Target does not claim conformance to any Protection Profile.

There are four assumptions being made in the ST regarding the secure usage and environment of the TOE. The TOE relies on these to counter the one threat and comply with the one organisational security policy (OSP) in the ST. The assumptions, the threat and the OSP are described in chapter 4 Assumptions and Clarification of Scope.

The evaluation has been performed by atsec information security AB in their premises in Danderyd, Sweden.

The evaluation was completed in 2017-11-20. The evaluation was conducted in accordance with the requirements of Common Criteria (CC), version 3.1 revision 5.

atsec information security AB is a licensed evaluation facility for Common Criteria under the Swedish Common Criteria Evaluation and Certification Scheme. atsec information security AB is also accredited by the Swedish accreditation body according to ISO/IEC 17025 for Common Criteria.

The certifier monitored the activities of the evaluator by reviewing all successive versions of the evaluation reports. The certifier determined that the evaluation results confirm the security claims in the Security Target (ST) and the Common Methodology for evaluation assurance level EAL 2 augmented by ALC_FLR.2.

The technical information in this report is based on the Security Target (ST) and the Final Evaluation Report (FER) produced by atsec information security AB.

The certification results only apply to the version of the product indicated in the certificate, and on the condition that all the stipulations in the Security Target are met. This certificate is not an endorsement of the IT product by CSEC or any other organisation that recognises or gives effect to this certificate, and no warranty of the IT product by CSEC or any other organisation that recognises or gives effect to this certificate is either expressed or implied.

2 Identification

Certification Identification	
Certification ID	CSEC2017003
Name and version of the certified IT product	Blancco File Eraser 8.2 Home Edition Blancco File Eraser 8.2 Enterprise Edition Blancco File Eraser 8.2 Data Center Edition
Security Target Identification	Blancco File Eraser Security Target, Blancco Technology Group IP Oy, 2017-11-10, document version 1.4
EAL	EAL 2 + ALC_FLR.2
Sponsor	Blancco Technology Group IP Oy
Developer	Blancco Technology Group IP Oy
ITSEF	atsec information security AB
Common Criteria version	3.1 release 5
CEM version	3.1 release 5
QMS version	1.21
Recognition Scope	CCRA, SOGIS, and EA/MLA
Certification date	2017-11-30

3 Security Policy

The TOE provides the following services:

- Secure File and Free Disk Space Erasure
- Reporting

3.1 Secure File and Free Disk Space Erasure

The TOE erases data, either comprising a file or unallocated space on a target storage device, by overwriting the data with a selected bit pattern (or sequence of overwrites and verification reading). It is possible to erase system files, and there is a special option to erase the recycle bin.

3.2 Reporting

Each data erasure by the TOE results in a report, specifying for example:

- success/failure, duration, erase method
- number of erased files, name of erased files, size of erased files
- whether previous versions of files were erased
- OS, computer name, Blancco File Erase version.

4 Assumptions and Clarification of Scope

4.1 Usage Assumptions

The Security Target [ST] makes one assumption on the usage of the TOE.

A.Users

Personnell using the TOE must have been trained, competent and follow all applicable guidance documentation.

4.2 Environmental Assumptions

The Security Target [ST] makes three assumptions on the operational environment of the TOE.

A.Platform

The underlying hardware, firmware and the operating system functions needed by the TOE to guarantee secure operation, are working correctly and have no undocumented security critical side effect on the functions of the TOE.

A.Time

The platform must provide a time stamp and ensure that the time is correctly set.

A.Repository

The operational environment must provide storage to retain reports generated by the TOE in order to use them later for auditing/erasure proof requirements.

4.3 Clarification of Scope

The Security Target contains one threat, which has been considered during the evaluation.

T.Recovery

A threat agent gains access to a storage device after sensitive data files have been improperly (logically only) erased and is able to recover the contents of the file(s) using software or hardware tools.

The Security Target contains one Organisational Security Policy (OSP), which has been considered during the evaluation.

P.Report

The TOE will report the results of an erasure process providing an indication of the success (or otherwise) and details about how and when it was performed.

5 Architectural Information

The TOE is software only, is delivered electronically, and is available in three Editions:

- Blancco Eraser 8.2 Home Edition
- Blancco Eraser 8.2 Enterprise Edition
- Blancco Eraser 8.2 Data Center Edition

Note that only the Data Center Edition can be installed on server versions of Windows. All three editions have a graphical user interface, accessible by executing the BlanccoFileEraser.exe application. The Enterprise Edition and Data Center Edition also feature a separate command-line interface, provided by the separate executable BlanccoFileEraserCmd.exe. The command-line version is suitable for scheduling.

6 Documentation

The following guidance documents are included in the scope of the TOE:

Blancco File Eraser, User Manual for version 8.2

Blancco File Eraser, Administrator's Manual for version 8.2

Blancco File Eraser, Common Criteria Supplement for version 8.2

7 IT Product Testing

7.1 Developer Testing

The developer has used automated testing where feasible, and some complementary manual testing. The developer testing covers all SFRs in detail, including verification of all sequences of overwrite patterns and verification readings within the scope of the evaluation.

Each edition of the TOE (Home Edition, Enterprise Edition, and Data Center Edition) was completely tested on each of the supported operating systems (Windows 7, Windows 8, Windows 10, Windows Server 2008, and Windows Server 2012). Both the graphical user interface and the command-line interface was completely tested, except for the Home Edition, which only has a graphic user interface.

7.2 Evaluator Testing

The evaluators repeated a subset of the developer's tests, and 27 additional tests using the Enterprise Edition of the TOE on Windows 10 for the released version 8.2.

The same evaluator testing also was performed using the RC7 (release candidate 7) version of the Data Center Edition on Windows Server 2012 (the released version is RC8).

7.3 Penetration Testing

The evaluators used the Home Edition on Windows 10, and the Data Center Edition on Windows Server 2008 to perform penetration testing.

The penetration testing focussed on some issues with erasing SSD and flash drives, erasing small files (less than 4 kB), and erasure of large files (4GB on FAT32, larger on exFAT and NTFS).

8 Evaluated Configuration

The TOE provides a large number of erasure methods, but only six of these have been covered by the evaluation:

- HMG Infosec Standard 5, Lower Standard
- HMG Infosec Standard 5, Higher Standard
- US DoD Sanitizing (DoD 5220-22-M)
- NSA 130-1
- NIST SP 800-88 Clear
- Aperiodic random overwrite

There are no claims that the TOE conforms to the standards as such, but the overwrite patterns and the overwrite and verification sequences used match the descriptions in the standard documents referenced in the ST.

The evaluation covers the use of the TOE on the following operating systems:

- Windows 7
- Windows 8
- Windows 10
- Windows Server 2008
- Windows Server 2012

The TOE will also function on some earlier versions of Windows, but this is considered outside the evaluated configuration.

9 Results of the Evaluation

The evaluators applied each work unit of the Common Methodology [CEM] within the scope of the evaluation, and concluded that the TOE meets the security objectives stated in the Security Target [ST] for an attack potential of ¹ <e.g. Basic>.

The certifier reviewed the work of the evaluator and determined that the evaluation was conducted in accordance with the Common Criteria [CC].

The evaluators overall verdict is PASS.

The verdicts for the assurance classes and components are summarised in the following table:

<i>Assurance Class/Family</i>	<i>Component</i>	<i>Verdict</i>
Development	ADV	PASS
Security Architecture	ADV_ARC.1	PASS
Functional Specification	ADV_FSP.2	PASS
TOE Design	ADV_TDS.1	PASS
Guidance Documents	AGD	PASS
Operational User Guidance	AGD_OPE.1	PASS
Preparative Procedures	AGD_PRE.1	PASS
Life-cycle Support	ALC	PASS
CM Capabilities	ALC_CMC.2	PASS
CM Scope	ALC_CMS.2	PASS
Delivery	ALC_DEL.1	PASS
Flaw Remediation	ALC_FLR.2	PASS
Security Target Evaluation	ASE	PASS
ST Introduction	ASE_INT.1	PASS
Conformance Claims	ASE_CCL.1	PASS
Security Problem Definition	ASE_SPD.1	PASS
Security Objectives	ASE_OBJ.2	PASS
Extended Components Definition	ASE_ECD.1	PASS
Security Requirements	ASE_REQ.2	PASS
TOE Summary Specification	ASE_TSS.1	PASS
Tests	ATE	PASS
Coverage	ATE_COV.1	PASS
Functional Tests	ATE_FUN.1	PASS
Independent Testing	ATE_IND.2	PASS
Vulnerability Assessment	AVA	PASS
Vulnerability Analysis	AVA_VAN.2	PASS

¹ State the level of attack potential that is applicable.

10 Evaluator Comments and Recommendations

None.

11 Glossary

CC	Common Criteria for Information Technology Security, a set of three documents describing different aspects of Common Criteria evaluations
CEM	Common Methodology for Information Technology Security, document describing the methodology used in Common Criteria evaluations
ITSEF	IT Security Evaluation Facility, test laboratory licensed to operate within a evaluation and certification scheme
ST	Security Target, document containing security requirements and specifications, used as the basis of a TOE evaluation
TOE	Target of Evaluation
SFR	Security Functional Requirement, a requirement included in the ST, on the TOE
TSF	TOE Security Function(s), the part of TOE that implements security mechanisms, as defined in the ST

12 Bibliography

ST	Blancco File Eraser Security Target, Blancco Technology Group IP Oy, 2017-11-24, document version 2.0
USER	Blancco File Eraser, User Manual for version 8.2, Blancco Technology Group IP Oy, 2017-09-19
ADM	Blancco File Eraser, Administrator's Manual for version 8.2, Blancco Technology Group IP Oy, 2017-09-19
CCSuppl	Blancco File Eraser, Common Criteria Supplement for version 8.2, Blancco Technology Group IP Oy, 2017-11-10
CC	Common Criteria for Information Technology Security Evaluation, CCMB-2017-04-001 through 003, document versions 3.1 revision 5
CEM	Common Criteria for Information Technology Security Evaluation, CCMB-2017-04-001 through 003, document versions 3.1 revision 5

Appendix A Scheme Versions

A.1 Scheme/Quality Management System

During the certification the following versions of the Swedish Common Criteria Evaluation and Certification scheme has been used.

Version	Introduced	Impact of changes
1.21	2017-11-15	None
1.20.5	2017-06-28	None
1.20.4	Application	Initial version

A.2 Scheme Notes

The following Scheme Notes have been considered during the evaluation:

- Scheme Note 15 - Demonstration of test coverage
- Scheme Note 18 - Highlighted Requirements on the Security Target