Certification Report

BSI-DSZ-CC-0980-2017

for

Digital Tachograph EFAS-4.5 Version 03.00

from

intellic GmbH

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Certification Report V1.0 CC-Zert-327 V5.15





BSI-DSZ-CC-0980-2017 (*)

Digital Tachograph: Vehicle Unit

Digital Tachograph EFAS-4.5 Version 03.00

from intellic GmbH

PP Conformance: Digital Tachograph - Vehicle Unit (VU PP) Version

1.0, 13 July 2010, BSI-CC-PP-0057-2010

Functionality: PP conformant plus product specific extensions

Common Criteria Part 2 conformant

Assurance: Common Criteria Part 3 conformant

EAL 4 augmented by ATE_DPT.2 and AVA_VAN.5

The IT Product identified in this certificate has been evaluated at an approved evaluation facility using the Common Methodology for IT Security Evaluation (CEM), Version 3.1 extended by Scheme Interpretations, by advice of the Certification Body for components beyond EAL 5 and CC Supporting Documents as listed in the Certification Report for conformance to the Common Criteria for IT Security Evaluation (CC), Version 3.1 (CC and CEM are also published as ISO/IEC 15408 and ISO/IEC 18045) and according to Commission Regulation (EC) No 1360/2002 Annex 1(B) adapting to Council Regulation (EC) No. 3821/85 amended by Commission Regulation (EC) No 432/2004 of 5 March 2004, Council Regulation (EC) No 1791/2006 of 20 November 2006 and Commission Regulation (EC) No 68/2009 of 23 January 2009, Commission Regulation (EU) No 1266/2009 of 16 December 2009 on recording equipment in road transport.

(*) This certificate applies only to the specific version and release of the product in its evaluated configuration and in conjunction with the complete Certification Report and Notification. For details on the validity see Certification Report part A chapter 4

The evaluation has been conducted in accordance with the provisions of the certification scheme of the German Federal Office for Information Security (BSI) and the conclusions of the evaluation facility in the evaluation technical report are consistent with the evidence adduced.

This certificate is not an endorsement of the IT Product by the Federal Office for Information Security or any other organisation that recognises or gives effect to this certificate, and no warranty of the IT Product by the Federal Office for Information Security or any other organisation that recognises or gives effect to this certificate, is either expressed or implied.

Bonn, 2 August 2017

For the Federal Office for Information Security

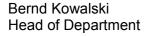


SOGIS Recognition Agreement





Common Criteria
Recognition Arrangement
for components up to
EAL 4



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Preliminary Remarks

Under the BSIG¹ Act, the Federal Office for Information Security (BSI) has the task of issuing certificates for information technology products.

Certification of a product is carried out on the instigation of the vendor or a distributor, hereinafter called the sponsor.

A part of the procedure is the technical examination (evaluation) of the product according to the security criteria published by the BSI or generally recognised security criteria.

The evaluation is normally carried out by an evaluation facility recognised by the BSI or by BSI itself.

The result of the certification procedure is the present Certification Report. This report contains among others the certificate (summarised assessment) and the detailed Certification Results.

The Certification Results contain the technical description of the security functionality of the certified product, the details of the evaluation (strength and weaknesses) and instructions for the user.

Act on the Federal Office for Information Security (BSI-Gesetz - BSIG) of 14 August 2009, Bundesgesetzblatt I p. 2821

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A. Certification

1. Specifications of the Certification Procedure

The certification body conducts the procedure according to the criteria laid down in the following:

- Act on the Federal Office for Information Security²
- BSI Certification and Approval Ordinance³
- BSI Schedule of Costs⁴
- Special decrees issued by the Bundesministerium des Innern (Federal Ministry of the Interior)
- DIN EN ISO/IEC 17065 standard
- BSI certification: Scheme documentation describing the certification process (CC-Produkte) [3]
- BSI certification: Scheme documentation on requirements for the Evaluation Facility, its approval and licencing process (CC-Stellen) [3]
- Common Criteria for IT Security Evaluation (CC), Version 3.1⁵[1] also published as ISO/IEC 15408.
- Common Methodology for IT Security Evaluation (CEM), Version 3.1 [2] also published as ISO/IEC 18045.
- BSI certification: Application Notes and Interpretation of the Scheme (AIS) [4]

2. Recognition Agreements

In order to avoid multiple certification of the same product in different countries a mutual recognition of IT security certificates - as far as such certificates are based on ITSEC or CC - under certain conditions was agreed.

2.1. European Recognition of ITSEC/CC – Certificates (SOGIS-MRA)

The SOGIS-Mutual Recognition Agreement (SOGIS-MRA) Version 3 became effective in April 2010. It defines the recognition of certificates for IT-Products at a basic recognition level and, in addition, at higher recognition levels for IT-Products related to certain SOGIS Technical Domains only.

Act on the Federal Office for Information Security (BSI-Gesetz - BSIG) of 14 August 2009, Bundesgesetzblatt I p. 2821

Ordinance on the Procedure for Issuance of Security Certificates and approval by the Federal Office for Information Security (BSI-Zertifizierungs- und -Anerkennungsverordnung - BSIZertV) of 17 December 2014, Bundesgesetzblatt 2014, part I, no. 61, p. 2231

Schedule of Cost for Official Procedures of the Bundesamt für Sicherheit in der Informationstechnik (BSI-Kostenverordnung, BSI-KostV) of 03 March 2005, Bundesgesetzblatt I p. 519

Proclamation of the Bundesministerium des Innern of 12 February 2007 in the Bundesanzeiger dated 23 February 2007, p. 3730

The basic recognition level includes Common Criteria (CC) Evaluation Assurance Levels EAL 1 to EAL 4 and ITSEC Evaluation Assurance Levels E1 to E3 (basic). For "Smartcards and similar devices" a SOGIS Technical Domain is in place. For "HW Devices with Security Boxes" a SOGIS Technical Domains is in place, too. In addition, certificates issued for Protection Profiles based on Common Criteria are part of the recognition agreement.

The new agreement has been signed by the national bodies of Austria, Finland, France, Germany, Italy, The Netherlands, Norway, Spain, Sweden and the United Kingdom. The current list of signatory nations and approved certification schemes, details on recognition, and the history of the agreement can be seen on the website at https://www.sogisportal.eu.

The SOGIS-MRA logo printed on the certificate indicates that it is recognised under the terms of this agreement by the nations listed above.

This certificate is recognized under SOGIS-MRA for all assurance components selected.

2.2. International Recognition of CC – Certificates (CCRA)

The international arrangement on the mutual recognition of certificates based on the CC (Common Criteria Recognition Arrangement, CCRA-2014) has been ratified on 08 September 2014. It covers CC certificates based on collaborative Protection Profiles (cPP) (exact use), CC certificates based on assurance components up to and including EAL 2 or the assurance family Flaw Remediation (ALC_FLR) and CC certificates for Protection Profiles and for collaborative Protection Profiles (cPP).

The CCRA-2014 replaces the old CCRA signed in May 2000 (CCRA-2000). Certificates based on CCRA-2000, issued before 08 September 2014 are still under recognition according to the rules of CCRA-2000. For on 08 September 2014 ongoing certification procedures and for Assurance Continuity (maintenance and re-certification) of old certificates a transition period on the recognition of certificates according to the rules of CCRA-2000 (i.e. assurance components up to and including EAL 4 or the assurance family Flaw Remediation (ALC_FLR)) is defined until 08 September 2017.

As of September 2014 the signatories of the new CCRA-2014 are government representatives from the following nations: Australia, Austria, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, India, Israel, Italy, Japan, Malaysia, The Netherlands, New Zealand, Norway, Pakistan, Republic of Korea, Singapore, Spain, Sweden, Turkey, United Kingdom, and the United States.

The current list of signatory nations and approved certification schemes can be seen on the website: http://www.commoncriteriaportal.org.

The Common Criteria Recognition Arrangement logo printed on the certificate indicates that this certification is recognised under the terms of this agreement by the nations listed above.

As this certificate is a re-certification of a certificate issued according to CCRA-2000 this certificate is recognized according to the rules of CCRA-2000, i.e. up to and including CC part 3 EAL 4 components. The evaluation contained the components ATE_DPT.2 and AVA_VAN.5 that are not mutually recognised in accordance with the provisions of the CCRA-2000, for mutual recognition the EAL 4 components of these assurance families are relevant.

3. Performance of Evaluation and Certification

The certification body monitors each individual evaluation to ensure a uniform procedure, a uniform interpretation of the criteria and uniform ratings.

The product Digital Tachograph EFAS-4.5 Version 03.00 has undergone the certification procedure at BSI. This is a re-certification based on BSI-DSZ-CC-0726-2012. Specific results from the evaluation process BSI-DSZ-CC-0726-2012 were re-used.

The evaluation of the product Digital Tachograph EFAS-4.5 Version 03.00 was conducted by SRC Security Research & Consulting GmbH. The evaluation was completed on 14 June 2017. SRC Security Research & Consulting GmbH is an evaluation facility (ITSEF)⁶ recognised by the certification body of BSI.

For this certification procedure the sponsor and applicant is: intellic GmbH.

The product was developed by: intellic Germany GmbH.

The certification is concluded with the comparability check and the production of this Certification Report. This work was completed by the BSI.

4. Validity of the Certification Result

This Certification Report only applies to the version of the product as indicated. The confirmed assurance package is only valid on the condition that

- all stipulations regarding generation, configuration and operation, as given in the following report, are observed,
- the product is operated in the environment described, as specified in the following report and in the Security Target.

For the meaning of the assurance levels please refer to the excerpts from the criteria at the end of the Certification Report or in the CC itself.

The Certificate issued confirms the assurance of the product claimed in the Security Target at the date of certification. As attack methods evolve over time, the resistance of the certified version of the product against new attack methods needs to be re-assessed. Therefore, the sponsor should apply for the certified product being monitored within the assurance continuity program of the BSI Certification Scheme (e.g. by a re-certification). Specifically, if results of the certification are used in subsequent evaluation and certification procedures, in a system integration process or if a user's risk management needs regularly updated results, it is recommended to perform a re-assessment on a regular e.g. annual basis.

In order to avoid an indefinite usage of the certificate when evolved attack methods require a re-assessment of the products resistance to state of the art attack methods, the maximum validity of the certificate has been limited. The certificate issued on 2 August 2017 is valid until 1 August 2022. Validity can be re-newed by re-certification.

The owner of the certificate is obliged:

1. when advertising the certificate or the fact of the product's certification, to refer to the Certification Report as well as to provide the Certification Report, the Security Target and user guidance documentation mentioned herein to any customer of the product for the application and usage of the certified product,

⁶ Information Technology Security Evaluation Facility

2. to inform the Certification Body at BSI immediately about vulnerabilities of the product that have been identified by the developer or any third party after issuance of the certificate.

3. to inform the Certification Body at BSI immediately in the case that security relevant changes in the evaluated life cycle, e.g. related to development and production sites or processes, occur, or the confidentiality of documentation and information related to the Target of Evaluation (TOE) or resulting from the evaluation and certification procedure where the certification of the product has assumed this confidentiality being maintained, is not given any longer. In particular, prior to the dissemination of confidential documentation and information related to the TOE or resulting from the evaluation and certification procedure that do not belong to the deliverables according to the Certification Report part B, or for those where no dissemination rules have been agreed on, to third parties, the Certification Body at BSI has to be informed.

In case of changes to the certified version of the product, the validity can be extended to the new versions and releases, provided the sponsor applies for assurance continuity (i.e. re-certification or maintenance) of the modified product, in accordance with the procedural requirements, and the evaluation does not reveal any security deficiencies.

5. Publication

The product Digital Tachograph EFAS-4.5 Version 03.00 has been included in the BSI list of certified products, which is published regularly (see also Internet: https://www.bsi.bund.de and [5]). Further information can be obtained from BSI-Infoline +49 228 9582-111.

Further copies of this Certification Report can be requested from the developer⁷ of the product. The Certification Report may also be obtained in electronic form at the internet address stated above.

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B. Certification Results

The following results represent a summary of

• the Security Target of the sponsor for the Target of Evaluation,

- the relevant evaluation results from the evaluation facility, and
- complementary notes and stipulations of the certification body.

1. Executive Summary

The Target of Evaluation (TOE) is Digital Tachograph EFAS-4.5 Version 03.00 provided by intellic GmbH. It is a Vehicle Unit (VU for short) in the sense of Annex 1 B of the Commission Regulation (EC) No 1360/2002 and last amended by CR (EC) No. 68/2009 and CR (EU) No. 1266/2009 on recording equipment in road transport [9]. It is intended to be installed in road transport vehicles and will be used within the Tachograph System to store, display, print and output data related to driver activities in accordance with the requirements of [9]. It is connected to a motion sensor with which it exchanges vehicle's motion data. Users identify themselves to the VU using tachograph cards.

The Security Target [6] is the basis for this certification. It is based on the certified Protection Profile Digital Tachograph - Vehicle Unit (VU PP) Version 1.0, 13 July 2010, BSI-CC-PP-0057-2010 [8].

The TOE Security Assurance Requirements (SAR) are based entirely on the assurance components defined in Part 3 of the Common Criteria (see part C or [1], Part 3 for details). The TOE meets the assurance requirements of the Evaluation Assurance Level EAL 4 augmented by ATE DPT.2 and AVA VAN.5.

The TOE Security Functional Requirements (SFR) relevant for the TOE are outlined in the Security Target [6], chapter 8.1. They are all selected from Common Criteria Part 2. Thus the TOE is CC Part 2 conformant.

The TOE Security Functional Requirements are implemented by the following TOE Security Functions:

TOE Security Functions	Addressed issue
SF.ACS	Security Attribute Based Access Control
SF.SECAUDIT	Audit
SF.EX_CONF	Confidentiality of Data Exchange
SF.EX_INT	Integrity and Authenticity of Data Exchange
SF.GEN_SKEYS	Generation of Session Keys
SF.GEN_DIGSIG	Generation of Digital Signatures optionally with Encryption
SF.VER_DIGSIG	Verification of Digital Signatures optionally with Decryption
SF.DATA_INT	Stored Data Integrity Monitoring and Action
SF.IA_KEY	Key Based User / TOE Authentication
SF.INF_PROT	Residual Information Protection
SF.FAIL_PROT	Failure and Tampering Protection
SF.SELFTEST	Self Test
SF.UPDATE	VU Software Upgrade

Table 1: TOE Security Functions

For more details please refer to the Security Target [6], chapter 9.1.

The assets to be protected by the TOE are defined in the Security Target [6], chapter 5.1. Based on these assets the TOE Security Problem is defined in terms of Assumptions, Threats and Organisational Security Policies. This is outlined in the Security Target [6], chapters 5.2 to 5.4.

This certification covers the configurations of the TOE as outlined in chapter 8.

The vulnerability assessment results as stated within this certificate do not include a rating for those cryptographic algorithms and their implementation suitable for encryption and decryption (see BSIG Section 9, Para. 4, Clause 2).

The certification results only apply to the version of the product indicated in the certificate and on the condition that all the stipulations are kept as detailed in this Certification Report. This certificate is not an endorsement of the IT product by the Federal Office for Information Security (BSI) or any other organisation that recognises or gives effect to this certificate, and no warranty of the IT product by BSI or any other organisation that recognises or gives effect to this certificate, is either expressed or implied.

2. Identification of the TOE

The Target of Evaluation (TOE) is called:

Digital Tachograph EFAS-4.5 Version 03.00

The following table outlines the TOE deliverables:

No	Туре	Identifier	Release	Form of Delivery	
1	HW/ SW	Vehicle Unit EFAS-4.5 Version V03.00	Hardware version 4.5 Software version 03.00	The VU is delivered as entire device (packed together with its accessories and the Operating Manual).	
2	DOC	Operating Manual [12] ("Bedienungsanleitung Digitaler Tachograph EFAS")	German version document number: 1030-130-SEC-DE04 file name: 1030-130-SEC-DE04-E4_5-BDA.pdf	The Operating Manual is delivered in paper form (together with the VU) or in electronic pdf-form.	
3	DOC	Service and Installation Manual [13] ("Digitaler Tachograph EFAS-4.0 Werkstatt- Handbuch")	German version document number: 1030-131-SEC-DE14_WHB_E4_5 file name: 1030-131-SEC-DE14_WHB_E4_5.pdf	The Service and Installation Manual is delivered in paper form or in electronic pdf-form (for details see below the table)	

Table 2: Deliverables of the TOE

The delivery of the TOE from the production facility to the customer which is a distributor or a workshop is described briefly in the following: At delivery the TOE is completely assembled and the TOE's case is leaded. The TOE is packed together with its accessories and the Operating Manual [12]. The Service and Instruction Manual [13] will be delivered generally in electronic form as pdf-file embedded into a pgp-encrypted file secured by password via email. The TOE is marked with a machine readable label which shows the TOE's reference, the serial number and the configuration. The serial number is also fixed within the TOE and can be read out from outside. The firmware of the Security Controller and the Main Controller cannot be modified anymore except by means of an update procedure based on VU specific and EU secrets (loaded into the Security Controller during personalisation). The TOE software version (V 03.00) is stored within the Security Controller, can be read out from outside and is readable on the print outs. The customer orders the TOE from the intellic Germany GmbH. In case of an order the customer is informed about the delivery process by fax or by email. The information about the delivery process contains the serial numbers of the Vehicle Units sent to the consumer.

Furthermore, the consumer is informed that he has to compare the serial numbers after receipt.

3. Security Policy

The Security Policy is expressed by the set of Security Functional Requirements and implemented by the TOE. It covers the following issues:

The data to be measured (the physical data measurement is performed by the motion sensor which is not part of this TOE) and recorded and then to be checked by control authorities must be available and reflect fully and accurately the activities of controlled drivers and vehicles in terms of driving, work, availability and rest periods and in terms of vehicle speed.

It concretely means that security of the VU aims to protect

- a) the data recorded and stored in such a way as to prevent unauthorized access to and manipulation of the data and detecting any such attempts,
- b) the integrity and authenticity of data exchanged between the motion sensor and the vehicle unit.
- c) the integrity and authenticity of data exchanged between the recording equipment and the tachograph cards, and
- d) the integrity and authenticity of data downloaded (locally and remotely).

The main security features stated above are provided by the following major security services:

- a) Identification and authentication of motion sensor und tachograph cards,
- b) Access control to functions and stored data.
- c) Accountability of users,
- d) Audit of events and faults,
- e) Object reuse for secret data,
- f) Accuracy of recorded and stored data,
- g) Reliability of services,
- h) Data exchange with motion sensor, tachograph cards and external media (download function).

Detailed information is given in [6], chapter 8.1.

4. Assumptions and Clarification of Scope

The Assumptions defined in the Security Target and some aspects of Threats and Organisational Security Policies are not covered by the TOE itself. These aspects lead to specific security objectives to be fulfilled by the TOE-Environment. The following topics are of relevance: Secure development and manufacturing environment, secure data generation and transport procedures, secure delivery processes, secure update process, removal of test points in final TOE, availability and traceability of tachograph cards, law enforcement controls and regular inspections, faithful drivers that possess only one driver card and type approval of motion sensors. Details can be found in the Security Target [6], chapter 6.2.

5. Architectural Information

The TOE is a composite product. It is composed of the Security Controller hardware SLE78CFX3000P including a crypto library provided by INFINEON (Subsystem SC-HW), the software of the Security Controller developed by intellic Germany GmbH (Subsystem SC-SW), and all other components of the TOE (Subsystem VU Plattform), i.e. Main Controller (MC) including its software, MC-Flash ROM as well as MC-RAM, power supply, case open supervision (COS) and real time clock (RTC).

More detailed information can be found in the Security Target [6], chapters 3.1 to 3.3.

For details concerning the CC evaluation of the INFINEON Security Controller (SC-HW) see the evaluation documentation under the certification-ID BSI-DSZ-CC-0891-V2.

6. Documentation

The evaluated documentation as outlined in table 2 is being provided with the product to the customer. This documentation contains the required information for secure usage of the TOE in accordance with the Security Target.

Additional obligations and notes for secure usage of the TOE as outlined in chapter 10 of this report have to be followed.

7. IT Product Testing

7.1. Developer Testing

The test configuration is based on the TOE as described in the Security Target [6]. For testing the developer provided the release version R031. The tests conducted are based on R031. The TOE's software version V03.00 is identical to the actual and proved release version R031.

The developer's tests can be categorised into tests according to the requirements of [10] (functional tests) and tests of the security requirements which are described in the test specification. The behaviour of each security function is covered by test cases using these different approaches.

There are three different kinds of test procedures used by the developer. The first procedure is to test the TOE through a python script which automatically starts the tachograph card simulator and triggers all operations. The second procedure is to prove the behaviour of the TOE by conducting a code review. Therefore, the relevant classes of the TOE are analysed and commented by the developer. The third type of tests is debugtesting. They are conducted with a special version of the TOE software where the developer can use break-points and hooks.

The tests covered each TSFI as well as each subsystem and module.

All test results were as expected.

7.2. Independent Evaluator Testing

The evaluators repeated a wide range of the developer tests in the lab of the ITSEF and defined some additional independent tests, which were executed by the developer because they required the debug test environment.

The evaluators centred their test activities with tests on

 Commands and operations / sequences according to the identification and authentication process

- Access control according to rights to functions
- Accountability by holding identification data permanently available
- Audit capabilities in case of security breaches
- Object re-use of temporary storage objects
- Reliability on the availability of data
- Cryptographic support

The overall test result is that no deviations were found between the expected and the actual test results.

7.3. Penetration Testing

On the basis of the methodical vulnerability analysis some potential vulnerabilities have been identified by the evaluator. These potential vulnerabilities have been analysed, if they are exploitable in the planned operational environment. For every potential vulnerability which was identified to be a candidate to be exploitable in the planned operational environment the evaluator devised and conducted penetration tests.

The test results showed that the TOE in its operational environment is resistant against attackers with high attack potential.

8. Evaluated Configuration

This certification covers the following configuration of the TOE:

The TOE EFAS-4.5 V 03.00 is an electronic device, consisting of hardware and software, and additionally of documentations.

The hardware components include the Main Controller (ET-AUT040G-3IN) with Flash and RAM, the Security Controller (SLE78CFX3000P), the Real Time Clock (PCF2127T), the Case Open Supervision, the Card Readers #1 and #2 (C702 10M008 925 4), the Printer (ELM208-V10-LV), the Display, the Keypad, LED and Buzzer, the Power Supply hardware and the battery as well as the metal case.

The TOE software V 03.00 is divided into the following three parts:

- EUSC, Bezeichnung, identifier "V3.00_00021"
- EUBootcode, Bezeichnung, identifier "V3.00 00015"
- EUApplication, Bezeichnung, identifier "V3.00 00031"

9. Results of the Evaluation

9.1. CC specific results

The Evaluation Technical Report (ETR) [7] was provided by the ITSEF according to the Common Criteria [1], the Methodology [2], the requirements of the Scheme [3] and all interpretations and guidelines of the Scheme (AIS) [4] as relevant for the TOE.

The Evaluation Methodology CEM [2] was used for those components up to EAL 5 extended by advice of the Certification Body for components beyond EAL 5 ([4] (AIS 34)) and guidance specific for the technology of the product.

The following guidance specific for the technology was used:

- (i) The Application of CC to Integrated Circuits
- (ii) The Application of Attack Potential to Smartcards
- (iii) Composite product evaluation for Smart Cards and similar devices (see AIS 36). According to this concept the relevant guidance documents of the underlying platform and the documents ETR for Composition from the platform evaluations (i.e. on hardware [14, 15], have been applied in the TOE evaluation.

(see [4], AIS 25, AIS 26, AIS 36).

As a result of the evaluation the verdict PASS is confirmed for the following assurance components:

- All components of the EAL 4 package including the class ASE as defined in the CC (see also part C of this report)
- The components ATE DPT.2 and AVA VAN.5 augmented for this TOE evaluation.

As the evaluation work performed for this certification procedure was carried out as a reevaluation based on the certificate BSI-DSZ-CC-0726-2012, re-use of specific evaluation tasks was possible. The focus of this re-evaluation was on the integration of the new security controller, the SLE78CFX3000P by Infineon and the changed source code organisation.

The evaluation has confirmed:

 PP Conformance: Digital Tachograph - Vehicle Unit (VU PP) Version 1.0, 13 July 2010, BSI-CC-PP-0057-2010 [8]

• for the Functionality: PP conformant plus product specific extensions

Common Criteria Part 2 conformant

• for the Assurance: Common Criteria Part 3 conformant

EAL 4 augmented by ATE DPT.2 and AVA VAN.5

For specific evaluation results regarding the development and production environment see annex B in part D of this report.

The results of the evaluation are only applicable to the TOE as defined in chapter 2 and the configuration as outlined in chapter 8 above.

9.2. Results of cryptographic assessment

The evaluation facility has examined that the analysis of used cryptographic algorithm (Triple DES, AES and RSA) meets all the requirements with regard to the specification of Annex 1B defined by the European Commission [9]. The cryptographic algorithms, mentioned above, are used by the TOE to enforce its security policy.

The following cryptographic algorithms are used by the TOE to enforce its security policy:

Purpose	Cryptographic Mechanism	Standard of Implementation			Validity Period	
Decryption and data integrity protection	AES in CBC and COUN- TER mode and CMAC	[FIPS 197] (AES), [NISTSP800-38A] (AES CBC mode), [NIST SP800-38B] (AES CMAC), [NIST SP800-38D] (COUNTER)	128 bits	TR-02102-1	The related commission regulation [9] does not make any restrictions	
Encryption, decryption, Retail-MAC	Triple DES in CBC and ECB modes	[ISO16844-3] for the Motion Sensor and [CSM [10]] for the Tachograph Cards	112 bits	[9]	See above	
Decryption, verifying for the Tachograph Cards authentication and signing for downloading to external media	RSA	[CSM, [10]], CSM_020 for the Tachograph Cards authentication and [CSM [10]], CSM_034 for downloading to external media	1024 bits	[9]	See above	

Table 3: TOE cryptographic functionality

The strength of the cryptographic algorithms was not rated in the course of this certification procedure (see BSIG Section 9, Para. 4, Clause 2).

10. Obligations and Notes for the Usage of the TOE

The documents as outlined in table 2 contain necessary information about the usage of the TOE and all security hints therein have to be considered. In addition all aspects of Assumptions, Threats and OSPs as outlined in the Security Target not covered by the TOE itself need to be fulfilled by the operational environment of the TOE.

The customer or user of the product shall consider the results of the certification within his system risk management process. In order for the evolution of attack methods and techniques to be covered, he should define the period of time until a re-assessment of the TOE is required and thus requested from the sponsor of the certificate.

If available, certified updates of the TOE should be used. If non-certified updates or patches are available the user of the TOE should request the sponsor to provide a recertification. In the meantime a risk management process of the system using the TOE should investigate and decide on the usage of not yet certified updates and patches or take additional measures in order to maintain system security.

The limited validity for the usage of cryptographic algorithms as outlined in chapter 9 has to be considered by the user and his system risk management process.

11. Security Target

For the purpose of publishing, the Security Target [6] of the Target of Evaluation (TOE) is provided within a separate document as Annex A of this report.

12. Definitions

12.1. Acronyms

AES Advanced Encryption Standard

AIS Application Notes and Interpretations of the Scheme

BSI Bundesamt für Sicherheit in der Informationstechnik / Federal Office for

Information Security, Bonn, Germany

BSIG BSI-Gesetz / Act on the Federal Office for Information Security

CBC Cipher Block Chaining

CCRA Common Criteria Recognition ArrangementCC Common Criteria for IT Security Evaluation

CEM Common Methodology for Information Technology Security Evaluation

CMAC Cipher-Based Message Authentication Code

COS Case Open Supervsion

cPP Collaborative Protection Profile

CSM Common Security Mechanism [see also 10]

DES Data Encryption Standard

EAL Evaluation Assurance Level

ECB Electronic Code Book ((an operation mode of a block cipher)

ETR Evaluation Technical Report

IT Information Technology

ITSEF Information Technology Security Evaluation Facility

MC Main Controller
PP Protection Profile

RSA Rivest-Shamir-Adleman Algorithm

RTC Real Time Clock

SAR Security Assurance Requirement

SC Security Controller

SFP Security Function Policy

SFR Security Functional Requirement

ST Security Target

TOE Target of Evaluation

TR Technische Richtlinie – Technical Guideline

TSF TOE Security Functionality

VU Vehicle Unit

12.2. Glossary

Augmentation - The addition of one or more requirement(s) to a package.

Collaborative Protection Profile - A Protection Profile collaboratively developed by an International Technical Community endorsed by the Management Committee.

Extension - The addition to an ST or PP of functional requirements not contained in CC part 2 and/or assurance requirements not contained in CC part 3.

Formal - Expressed in a restricted syntax language with defined semantics based on well-established mathematical concepts.

Informal - Expressed in natural language.

Object - A passive entity in the TOE, that contains or receives information, and upon which subjects perform operations.

Package - named set of either security functional or security assurance requirements

Protection Profile - A formal document defined in CC, expressing an implementation independent set of security requirements for a category of IT Products that meet specific consumer needs.

Security Target - An implementation-dependent statement of security needs for a specific identified TOE.

Semiformal - Expressed in a restricted syntax language with defined semantics.

Subject - An active entity in the TOE that performs operations on objects.

Target of Evaluation - An IT Product and its associated administrator and user guidance documentation that is the subject of an Evaluation.

TOE Security Functionality - Combined functionality of all hardware, software, and firmware of a TOE that must be relied upon for the correct enforcement of the SFRs.

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- AIS 32, Version 7, CC-Interpretationen im deutschen Zertifizierungsschema
- AIS 34, Version 3, Evaluation Methodology for CC Assurance Classes for EAL 5+ (CCv2.3 & CCv3.1) and EAL 6 (CCv3.1)
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C. Excerpts from the Criteria

CC Part 1:

Conformance Claim (chapter 10.4)

"The conformance claim indicates the source of the collection of requirements that is met by a PP or ST that passes its evaluation. This conformance claim contains a CC conformance claim that:

- describes the version of the CC to which the PP or ST claims conformance.
- describes the conformance to CC Part 2 (security functional requirements) as either:
 - CC Part 2 conformant A PP or ST is CC Part 2 conformant if all SFRs in that PP or ST are based only upon functional components in CC Part 2, or
 - CC Part 2 extended A PP or ST is CC Part 2 extended if at least one SFR in that PP or ST is not based upon functional components in CC Part 2.
- describes the conformance to CC Part 3 (security assurance requirements) as either:
 - CC Part 3 conformant A PP or ST is CC Part 3 conformant if all SARs in that PP or ST are based only upon assurance components in CC Part 3, or
 - CC Part 3 extended A PP or ST is CC Part 3 extended if at least one SAR in that PP or ST is not based upon assurance components in CC Part 3.

Additionally, the conformance claim may include a statement made with respect to packages, in which case it consists of one of the following:

- Package name Conformant A PP or ST is conformant to a pre-defined package (e.g. EAL) if:
 - the SFRs of that PP or ST are identical to the SFRs in the package, or
 - the SARs of that PP or ST are identical to the SARs in the package.
- Package name Augmented A PP or ST is an augmentation of a predefined package if:
 - the SFRs of that PP or ST contain all SFRs in the package, but have at least one additional SFR or one SFR that is hierarchically higher than an SFR in the package.
 - the SARs of that PP or ST contain all SARs in the package, but have at least one additional SAR or one SAR that is hierarchically higher than an SAR in the package.

Note that when a TOE is successfully evaluated to a given ST, any conformance claims of the ST also hold for the TOE. A TOE can therefore also be e.g. CC Part 2 conformant.

Finally, the conformance claim may also include two statements with respect to Protection Profiles:

- PP Conformant A PP or TOE meets specific PP(s), which are listed as part of the conformance result.
- Conformance Statement (Only for PPs) This statement describes the manner in which PPs or STs must conform to this PP: strict or demonstrable. For more information on this Conformance Statement, see Annex D."

CC Part 3:

Class APE: Protection Profile evaluation (chapter 10)

"Evaluating a PP is required to demonstrate that the PP is sound and internally consistent, and, if the PP is based on one or more other PPs or on packages, that the PP is a correct instantiation of these PPs and packages. These properties are necessary for the PP to be suitable for use as the basis for writing an ST or another PP.

Assurance Class	Assurance Components				
Class APE: Protection Profile evaluation	APE_INT.1 PP introduction				
	APE_CCL.1 Conformance claims				
	APE_SPD.1 Security problem definition				
	APE_OBJ.1 Security objectives for the operational environment APE_OBJ.2 Security objectives				
	APE_ECD.1 Extended components definition				
	APE_REQ.1 Stated security requirements APE_REQ.2 Derived security requirements				

APE: Protection Profile evaluation class decomposition"

Class ASE: Security Target evaluation (chapter 11)

"Evaluating an ST is required to demonstrate that the ST is sound and internally consistent, and, if the ST is based on one or more PPs or packages, that the ST is a correct instantiation of these PPs and packages. These properties are necessary for the ST to be suitable for use as the basis for a TOE evaluation."

Assurance Class	Assurance Components				
	ASE_INT.1 ST introduction				
Class ASE: Security Target evaluation	ASE_CCL.1 Conformance claims				
	ASE_SPD.1 Security problem definition				
	ASE_OBJ.1 Security objectives for the operational environment ASE_OBJ.2 Security objectives				
	ASE_ECD.1 Extended components definition				
	ASE_REQ.1 Stated security requirements ASE_REQ.2 Derived security requirements				
	ASE_TSS.1 TOE summary specification ASE_TSS.2 TOE summary specification with architectural design summary				

ASE: Security Target evaluation class decomposition

Security assurance components (chapter 7)

"The following Sections describe the constructs used in representing the assurance classes, families, and components."

"Each assurance class contains at least one assurance family."

"Each assurance family contains one or more assurance components."

The following table shows the assurance class decomposition.

Assurance Class	Assurance Components				
ADV: Development	ADV_ARC.1 Security architecture description				
	ADV_FSP.1 Basic functional specification ADV_FSP.2 Security-enforcing functional specification ADV_FSP.3 Functional specification with complete summary ADV_FSP.4 Complete functional specification ADV_FSP.5 Complete semi-formal functional specification with additional error information ADV_FSP.6 Complete semi-formal functional specification with additional formal specification				
	ADV_IMP.1 Implementation representation of the TSF ADV_IMP.2 Implementation of the TSF				
	ADV_INT.1 Well-structured subset of TSF internals ADV_INT.2 Well-structured internals ADV_INT.3 Minimally complex internals				
	ADV_SPM.1 Formal TOE security policy model				
	ADV_TDS.1 Basic design ADV_TDS.2 Architectural design ADV_TDS.3 Basic modular design ADV_TDS.4 Semiformal modular design ADV_TDS.5 Complete semiformal modular design ADV_TDS.6 Complete semiformal modular design with formal high-level design presentation				
AGD:	AGD_OPE.1 Operational user guidance				
Guidance documents	AGD_PRE.1 Preparative procedures				
	ALC_CMC.1 Labelling of the TOE ALC_CMC.2 Use of a CM system ALC_CMC.3 Authorisation controls ALC_CMC.4 Production support, acceptance procedures and automation ALC_CMC.5 Advanced support				
ALC: Life cycle support	ALC_CMS.1 TOE CM coverage ALC_CMS.2 Parts of the TOE CM coverage ALC_CMS.3 Implementation representation CM coverage ALC_CMS.4 Problem tracking CM coverage ALC_CMS.5 Development tools CM coverage				
	ALC_DEL.1 Delivery procedures				
	ALC_DVS.1 Identification of security measures ALC_DVS.2 Sufficiency of security measures				
	ALC_FLR.1 Basic flaw remediation ALC_FLR.2 Flaw reporting procedures ALC_FLR.3 Systematic flaw remediation				
	ALC_LCD.1 Developer defined life-cycle model				

Assurance Class	Assurance Components				
	ALC_LCD.2 Measurable life-cycle model				
	ALC_TAT.1 Well-defined development tools ALC_TAT.2 Compliance with implementation standards ALC_TAT.3 Compliance with implementation standards - all parts				
	ATE_COV.1 Evidence of coverage ATE_COV.2 Analysis of coverage ATE_COV.3 Rigorous analysis of coverage				
ATE: Tests	ATE_DPT.1 Testing: basic design ATE_DPT.2 Testing: security enforcing modules ATE_DPT.3 Testing: modular design ATE_DPT.4 Testing: implementation representation				
	ATE_FUN.1 Functional testing ATE_FUN.2 Ordered functional testing				
	ATE_IND.1 Independent testing – conformance ATE_IND.2 Independent testing – sample ATE_IND.3 Independent testing – complete				
AVA: Vulnerability assessment	AVA_VAN.1 Vulnerability survey AVA_VAN.2 Vulnerability analysis AVA_VAN.3 Focused vulnerability analysis AVA_VAN.4 Methodical vulnerability analysis AVA_VAN.5 Advanced methodical vulnerability analysis				

Assurance class decomposition

Evaluation assurance levels (chapter 8)

"The Evaluation Assurance Levels (EALs) provide an increasing scale that balances the level of assurance obtained with the cost and feasibility of acquiring that degree of assurance. The CC approach identifies the separate concepts of assurance in a TOE at the end of the evaluation, and of maintenance of that assurance during the operational use of the TOE.

It is important to note that not all families and components from CC Part 3 are included in the EALs. This is not to say that these do not provide meaningful and desirable assurances. Instead, it is expected that these families and components will be considered for augmentation of an EAL in those PPs and STs for which they provide utility."

Evaluation assurance level (EAL) overview (chapter 8.1)

"Table 1 represents a summary of the EALs. The columns represent a hierarchically ordered set of EALs, while the rows represent assurance families. Each number in the resulting matrix identifies a specific assurance component where applicable.

As outlined in the next Section, seven hierarchically ordered evaluation assurance levels are defined in the CC for the rating of a TOE's assurance. They are hierarchically ordered inasmuch as each EAL represents more assurance than all lower EALs. The increase in assurance from EAL to EAL is accomplished by substitution of a hierarchically higher assurance component from the same assurance family (i.e. increasing rigour, scope, and/or depth) and from the addition of assurance components from other assurance families (i.e. adding new requirements).

These EALs consist of an appropriate combination of assurance components as described in Chapter 7 of this CC Part 3. More precisely, each EAL includes no more than one

component of each assurance family and all assurance dependencies of every component are addressed.

While the EALs are defined in the CC, it is possible to represent other combinations of assurance. Specifically, the notion of "augmentation" allows the addition of assurance components (from assurance families not already included in the EAL) or the substitution of assurance components (with another hierarchically higher assurance component in the same assurance family) to an EAL. Of the assurance constructs defined in the CC, only EALs may be augmented. The notion of an "EAL minus a constituent assurance component" is not recognised by the standard as a valid claim. Augmentation carries with it the obligation on the part of the claimant to justify the utility and added value of the added assurance component to the EAL. An EAL may also be augmented with extended assurance requirements.

Evaluation assurance level 1 (EAL 1) - functionally tested (chapter 8.3)

"Objectives

EAL 1 is applicable where some confidence in correct operation is required, but the threats to security are not viewed as serious. It will be of value where independent assurance is required to support the contention that due care has been exercised with respect to the protection of personal or similar information.

EAL 1 requires only a limited security target. It is sufficient to simply state the SFRs that the TOE must meet, rather than deriving them from threats, OSPs and assumptions through security objectives.

EAL 1 provides an evaluation of the TOE as made available to the customer, including independent testing against a specification, and an examination of the guidance documentation provided. It is intended that an EAL 1 evaluation could be successfully conducted without assistance from the developer of the TOE, and for minimal outlay.

An evaluation at this level should provide evidence that the TOE functions in a manner consistent with its documentation."

Evaluation assurance level 2 (EAL 2) - structurally tested (chapter 8.4)

"Objectives

EAL 2 requires the co-operation of the developer in terms of the delivery of design information and test results, but should not demand more effort on the part of the developer than is consistent with good commercial practise. As such it should not require a substantially increased investment of cost or time.

EAL 2 is therefore applicable in those circumstances where developers or users require a low to moderate level of independently assured security in the absence of ready availability of the complete development record. Such a situation may arise when securing legacy systems, or where access to the developer may be limited."

Evaluation assurance level 3 (EAL 3) - methodically tested and checked (chapter 8.5) "Objectives

EAL 3 permits a conscientious developer to gain maximum assurance from positive security engineering at the design stage without substantial alteration of existing sound development practises.

EAL 3 is applicable in those circumstances where developers or users require a moderate level of independently assured security, and require a thorough investigation of the TOE and its development without substantial re-engineering."

Evaluation assurance level 4 (EAL 4) - methodically designed, tested, and reviewed (chapter 8.6)

"Objectives

EAL 4 permits a developer to gain maximum assurance from positive security engineering based on good commercial development practises which, though rigorous, do not require substantial specialist knowledge, skills, and other resources. EAL 4 is the highest level at which it is likely to be economically feasible to retrofit to an existing product line.

EAL 4 is therefore applicable in those circumstances where developers or users require a moderate to high level of independently assured security in conventional commodity TOEs and are prepared to incur additional security-specific engineering costs."

Evaluation assurance level 5 (EAL 5) - semiformally designed and tested (chapter 8.7)

"Objectives

EAL 5 permits a developer to gain maximum assurance from security engineering based upon rigorous commercial development practises supported by moderate application of specialist security engineering techniques. Such a TOE will probably be designed and developed with the intent of achieving EAL 5 assurance. It is likely that the additional costs attributable to the EAL 5 requirements, relative to rigorous development without the application of specialised techniques, will not be large.

EAL 5 is therefore applicable in those circumstances where developers or users require a high level of independently assured security in a planned development and require a rigorous development approach without incurring unreasonable costs attributable to specialist security engineering techniques."

Evaluation assurance level 6 (EAL 6) - semiformally verified design and tested (chapter 8.8)

"Objectives

EAL 6 permits developers to gain high assurance from application of security engineering techniques to a rigorous development environment in order to produce a premium TOE for protecting high value assets against significant risks.

EAL 6 is therefore applicable to the development of security TOEs for application in high risk situations where the value of the protected assets justifies the additional costs."

Evaluation assurance level 7 (EAL 7) - formally verified design and tested (chapter 8.9)

"Objectives

EAL 7 is applicable to the development of security TOEs for application in extremely high risk situations and/or where the high value of the assets justifies the higher costs. Practical application of EAL 7 is currently limited to TOEs with tightly focused security functionality that is amenable to extensive formal analysis."

Assurance Class	Assurance Family	Assurance Components by Evaluation Assurance Level						
		EAL 1	EAL 2	EAL 3	EAL 4	EAL 5	EAL 6	EAL 7
Development	ADV_ARC		1	1	1	1	1	1
	ADV_FSP	1	2	3	4	5	5	6
	ADV_IMP				1	1	2	2
	ADV_INT					2	3	3
	ADV_SPM						1	1
	ADV_TDS		1	2	3	4	5	6
Guidance	AGD_OPE	1	1	1	1	1	1	1
Documents	AGD_PRE	1	1	1	1	1	1	1
Life cycle	ALC_CMC	1	2	3	4	4	5	5
Support	ALC_CMS	1	2	3	4	5	5	5
	ALC_DEL		1	1	1	1	1	1
	ALC_DVS			1	1	1	2	2
	ALC_FLR							
	ALC_LCD			1	1	1	1	2
	ALC_TAT				1	2	3	3
Security Target Evaluation	ASE_CCL	1	1	1	1	1	1	1
Lvaluation	ASE_ECD	1	1	1	1	1	1	1
	ASE_INT	1	1	1	1	1	1	1
	ASE_OBJ	1	2	2	2	2	2	2
	ASE_REQ	1	2	2	2	2	2	2
	ASE_SPD		1	1	1	1	1	1
	ASE_TSS	1	1	1	1	1	1	1
Tests	ATE_COV		1	2	2	2	3	3
	ATE_DPT			1	1	3	3	4
	ATE_FUN		1	1	1	1	2	2
	ATE_IND	1	2	2	2	2	2	3
Vulnerability assessment	AVA_VAN	1	2	2	3	4	5	5

Table 1: Evaluation assurance level summary"

Class AVA: Vulnerability assessment (chapter 16)

"The AVA: Vulnerability assessment class addresses the possibility of exploitable vulnerabilities introduced in the development or the operation of the TOE."

Vulnerability analysis (AVA VAN) (chapter 16.1)

"Objectives

Vulnerability analysis is an assessment to determine whether potential vulnerabilities identified, during the evaluation of the development and anticipated operation of the TOE or by other methods (e.g. by flaw hypotheses or quantitative or statistical analysis of the security behaviour of the underlying security mechanisms), could allow attackers to violate the SFRs.

Vulnerability analysis deals with the threats that an attacker will be able to discover flaws that will allow unauthorised access to data and functionality, allow the ability to interfere with or alter the TSF, or interfere with the authorised capabilities of other users."

D. Annexes

List of annexes of this certification report

Annex A: Security Target provided within a separate document.

Annex B: Evaluation results regarding development

and production environment

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Annex B of Certification Report BSI-DSZ-CC-0980-2017

Evaluation results regarding development and production environment



The IT product Digital Tachograph EFAS-4.5 Version 03.00 (Target of Evaluation, TOE) has been evaluated at an approved evaluation facility using the Common Methodology for IT Security Evaluation (CEM), Version 3.1 extended by Scheme Interpretations and by advice of the Certification Body for components beyond EAL 5 and CC Supporting Documents for conformance to the Common Criteria for IT Security Evaluation (CC), Version 3.1.

As a result of the TOE certification, dated 2 August 2017, the following results regarding the development and production environment apply. The Common Criteria assurance requirements ALC – Life cycle support (i.e. ALC_CMC.4, ALC_CMS.4, ALC_DEL.1, ALC_DVS.1, ALC_LCD.1, ALC_TAT.1)

are fulfilled for the development and production sites of the TOE listed below:

- a) intellic Germany GmbH, Voltastr. 5, 13335 Berlin, Germany (Development)
- b) MELECS EWS GmbH & Co KG, Magyarországi Fióktelepe, Berkenyefa sor 2, 9027 Györ, Hungary (Production)
- c) BASARI TECHNOLOGIES A. S., Esenboga Karayolu 28. Km, Balikhisar Koyu Yolu No. 687, 06750 Akyurt, Ankara, Turkey
- d) For the development and production sites of the underlying HW platform SLE78CFX3000P please see Annex B of the Certification Report BSI-DSZ-CC-0891-V2-2016 for Infineon Security Controller [14]

For the sites listed above, the requirements have been specifically applied in accordance with the Security Target [6]. The evaluators verified, that the threats, security objectives and requirements for the TOE life cycle phases up to delivery (as stated in the Security Target [6]) are fulfilled by the procedures of these sites.

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