

Certification Report

BSI-DSZ-CC-1131-2020

for

Sensor 2185 (KITAS 4.0) Release 1.10

from

Continental Automotive GmbH

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Bundesamt
für Sicherheit in der
Informationstechnik

Deutsches  **IT-Sicherheitszertifikat**
erteilt vom Bundesamt für Sicherheit in der Informationstechnik

BSI-DSZ-CC-1131-2020 (*)

Digital Tachograph: Motion Sensor

Sensor 2185 (KITAS 4.0) Release 1.10

from Continental Automotive GmbH
PP Conformance: Digital Tachograph - Motion Sensor (MS PP) Version
1.0, 9 May 2017, BSI-CC-PP-0093-2017
Functionality: PP conformant
Common Criteria Part 2 conformant
Assurance: Common Criteria Part 3 conformant
EAL 4 augmented by ATE_DPT.2 and AVA_VAN.5



SOGIS
Recognition Agreement



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.

(*) 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 5.

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, 13 July 2020

For the Federal Office for Information Security

Joachim Weber
Head of Branch

L.S.



Common Criteria
Recognition Arrangement
recognition for components
up to EAL 2 only



Bundesamt für Sicherheit in der Informationstechnik

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A. Certification

1. 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.

2. 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 Security¹
- BSI Certification and Approval Ordinance²
- BMI Regulations on Ex-parte Costs³
- 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]

¹ Act on the Federal Office for Information Security (BSI-Gesetz - BSIG) of 14 August 2009, Bundesgesetzblatt I p. 2821

² 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

³ BMI Regulations on Ex-parte Costs - Besondere Gebührenverordnung des BMI für individuell zurechenbare öffentliche Leistungen in dessen Zuständigkeitsbereich (BMIBGebV), Abschnitt 7 (BSI-Gesetz) - dated 2 September 2019, Bundesgesetzblatt I p. 1365

- Common Criteria for IT Security Evaluation (CC), Version 3.1⁴ [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]

3. 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.

3.1. European Recognition of 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.

The basic recognition level includes Common Criteria (CC) Evaluation Assurance Levels EAL 1 to EAL 4. 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 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.sogis.eu>.

The SOGIS-MRA logo printed on the certificate indicates that it is recognised under the terms of this agreement by the related bodies of the signatory nations. A disclaimer beneath the logo indicates the specific scope of recognition.

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

3.2. 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 current list of signatory nations and approved certification schemes can be seen on the website: <https://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 related bodies of the signatory nations. A disclaimer beneath the logo indicates the specific scope of recognition.

⁴ Proclamation of the Bundesministerium des Innern of 12 February 2007 in the Bundesanzeiger dated 23 February 2007, p. 3730

This certificate is recognized according to the rules of CCRA-2014, i. e. up to and including CC part 3 EAL 2+ ALC_FLR components.

4. 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 Sensor 2185 (KITAS 4.0) Release 1.10 has undergone the certification procedure at BSI. This is a re-certification based on BSI-DSZ-CC-1111-2019. Specific results from the evaluation process BSI-DSZ-CC-1111-2019 were re-used.

The evaluation of the product Sensor 2185 (KITAS 4.0) Release 1.10 was conducted by T-Systems International GmbH. The evaluation was completed on 24 June 2020. T-Systems International GmbH is an evaluation facility (ITSEF)⁵ recognised by the certification body of BSI.

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

The product was developed by: Continental Automotive GmbH.

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

5. Validity of the Certification Result

This Certification Report applies only to the version of the product as indicated. The confirmed assurance package is 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 components and assurance levels please refer to CC itself. Detailed references are listed in part C of this report.

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-assessment or 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 would 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 13 July 2020 is valid until 12 July 2025. Validity can be re-newed by re-certification.

⁵ Information Technology Security Evaluation Facility

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,
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.
4. to provide the Operating Instructions for the control authorities and control officers [12] to the control authorities.

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.

6. Publication

The product Sensor 2185 (KITAS 4.0) Release 1.10 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 developer⁶ of the product. The Certification Report may also be obtained in electronic form at the internet address stated above.

⁶ Continental Automotive GmbH
Heinrich-Hertz-Strasse 45
78052 Villingen-Schwenningen

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 the Sensor 2185 (KITAS 4.0) Release 1.10 with the configuration options 2185.20 and 2185.32. It is a second generation Tachograph Motion Sensor in the sense of Annex 1C of Commission Implementing Regulation (EC) 2016/799 [10], intended to be used in the digital tachograph system. The Digital Tachograph system additionally contains a vehicle unit, tachograph cards, an external GNSS (Global Navigation Satellite System) module (if applicable) and remote early detection communication readers. A motion sensor is installed within a road transport vehicle as part of a digital tachograph system. Its purpose is to provide a vehicle unit with motion data that accurately reflects the vehicle's speed and distance travelled. The Security Target [6] is the basis for this certification. It is based on the certified Protection Profile Digital Tachograph - Motion Sensor (MS PP) Version 1.0, 9 May 2017, BSI-CC-PP-0093-2017 [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] and [9], chapter 6. 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 Functionality:

TOE Security Functionality	Addressed issue
TOE_SS.Integrity_Authenticity	Integrity and authenticity of the TOE
TOE_SS.Identification_Authentication	Identification and authentication of the vehicle unit
TOE_SS.Accuracy	Accuracy of stored, processed and outputted data
TOE_SS.Access	Access control for access to functions and data of the TOE
TOE_SS.Audit	The TOE generates audit records for events impairing its security
TOE_SS.Reliability	Reliability of service to ensure proper operation
TOE_SS.Secured_Data_Exchange	Secured data exchange with the vehicle unit
TOE_SS.Cryptographic_Support	Cryptographic Support using standard cryptographic algorithms and procedures

Table 1: TOE Security Functionalities

For more details please refer to the Security Target [6] and [9], chapter 8.

The assets to be protected by the TOE are defined in the Security Target [6] and [9], chapter 3.1.1. 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] and [9], chapter 3.2 to 3.4.

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:

Sensor 2185 (KITAS 4.0) Release 1.10

The following table outlines the TOE deliverables:

No	Type	Identifier	Release	Form of Delivery
1	HW/SW	Sensor 2185 (KITAS 4.0)	1.10, configuration options 2185.20 and 2185.32	Separate unit in a closed case
2	DOC	Technical Description Manual [13]	TD00.1381.40 101 101 – 41265524 OPM 000 AB, 02/2020	Paper or PDF-file
3	DOC	Operating Instructions for the control authorities and control officers [12]	BA00.1381.40 201 101, 2020-04-17	Paper or PDF-file
4	DOC	Guidance for VU Manufacturers [14]	1.2, 2020-03-25	Paper or PDF-file
5	DOC	Interface Specification and requirements for tachographs [15]	2.4, 2019-01-12	Paper or PDF-file

Table 2: Deliverables of the TOE

The delivery will be announced by a shipping note electronically. During delivery to the customer the TOE is protected by a seal. The TOE must be paired with a certified vehicle unit and calibrated in an authorised workshop.

The user can check the authenticity of the TOE by comparison of the identification data on the type label with the identification data stored in the TOE.

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:

- to maintain the integrity of motion data supplied to the vehicle unit
- to demonstrate its authenticity to the vehicle unit through an authenticated pairing process
- to detect physical tampering
- to audit security relevant events and send these to the vehicle unit
- to provide a secure communication channel between itself and the vehicle unit

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. Details can be found in the Security Target [6] and [9], chapter 4.2.

5. Architectural Information

The TOE consists of:

- Sensor housing
- Sensor
- Processing Unit and security components
- Interface to a moving part of the vehicle
- Interface to the vehicle unit and power supply

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

Developer tests:

All properties/characteristics of the TSFI as described in the functional specification, the TSF subsystem behaviour and the interaction among TSF subsystems as described in the design documentation, and all interfaces of the SFR-enforcing modules have been tested by the developer. The TOE responded to the tests as expected.

Evaluator tests:

The evaluators spent adequate testing effort for the desired resistance of the TOE against attackers with a high attack potential. The evaluators spent several days each for analysing the test specification and ensuring that the specification has been correctly implemented in the test scripts,

- for creating ideas for independent evaluator tests,
- for ensuring that the test environment delivers correct test results, and
- for repeating developer tests as well as carrying out independent tests.

TOE test configurations:

The TOE was brought in every production control state. A simulator for the DTCO was used in the developer's test environment. Furthermore some tests for the application running on the secure chip platform were carried out by isolated secure platform hardware. Those tests were possible due the use of test software that is equipped with some additional instructions.

Independent tests:

Independent tests were identified based on the developer tests already available. The developer tests have been compared with the ST, the FSP and the TDS in order to determine the fields of further investigation. Furthermore the evaluator devised tests based on a systematically analysis of the ST.

The evaluators conducted independent testing partly at the evaluator's test environment and at the developer's site.

The evaluator tests have been carried out against the following TOE configurations: The TOE could be re-paired with different DTCO's and supported further test commands that must be implemented for test usage. For the integration tests, mostly the simulator for the DTCO available at developer's site was used, however also a test DTCO was used.

The tests showed that the TOE behaves as expected in all configurations that are considered as part of the evaluation. No deviation was found between the expected and the actual test results. The depth of testing is adequate for the evaluation assurance level chosen (EAL4+). The TOE has successfully passed independent testing.

The TOE has successfully passed independent testing.

Penetration tests:

The evaluator reports the evaluator penetration testing effort, outlining the testing approach, configuration, depth and results.

The penetration testing was performed using the evaluator's testing environment.

All configurations of the TOE being intended to be covered by the current evaluation were tested.

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 overall test result is that no deviations were found between the expected and the actual test results. No attack scenario with the attack potential High was actually successful in the TOE's operational environment as defined in [6] and [9] provided that all measures required by the developer are applied.

8. Evaluated Configuration

This certification covers the following configurations of the TOE:

Sensor 2185.20 (KITAS 4.0) with an aluminium housing and a plastic connector housing and Sensor 2185.32 (KITAS 4.0) with plastic housing. Details can be found in the Security Target [6] and [9], chapter 1.2.

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 and guidance specific for the technology of the product [4] (AIS 34).

The following guidance specific for the technology was used:

- The Application of CC to Integrated Circuits
- The Application of Attack Potential to Smartcards

(see [4], AIS 25, AIS 26, AIS 34, 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 re-evaluation based on the certificate BSI-DSZ-CC-1111-2019, re-use of specific evaluation tasks was possible. The focus of this re-evaluation was on the one hand on the software changes and their impact on the security functionality of the TOE and on the other hand on the change of the housing seal.

The evaluation has confirmed:

- PP Conformance: Digital Tachograph - Motion Sensor (MS PP) Version 1.0, 9 May 2017, BSI-CC-PP-0093-2017 [8]
- for the Functionality: PP conformant
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 table presented in chapter 12 of the Security Target [6] and [9] gives an overview of the cryptographic functionalities inside the TOE to enforce the security policy and outlines the standard of application where its specific appropriateness is stated.

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.

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, too.

In addition, the following aspects need to be fulfilled when using the TOE:

- The control authorities shall request the Operating Instructions for the control authorities and control officers [12] from Continental Automotive GmbH

11. Security Target

For the purpose of publishing, the Security Target [9] of the Target of Evaluation (TOE) is provided within a separate document as Annex A of this report. It is a sanitised version of the complete Security Target [6] used for the evaluation performed. Sanitisation was performed according to the rules as outlined in the relevant CCRA policy (see AIS 35 [4]).

12. Definitions

12.1. Acronyms

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
CCRA	Common Criteria Recognition Arrangement
CC	Common Criteria for IT Security Evaluation
CEM	Common Methodology for Information Technology Security Evaluation
cPP	Collaborative Protection Profile
DTCO	Digital Tachograph or Smart Tachograph
EAL	Evaluation Assurance Level
ETR	Evaluation Technical Report
GNSS	Global Navigation Satellite System
IT	Information Technology
ITSEF	Information Technology Security Evaluation Facility
PP	Protection Profile
SAR	Security Assurance Requirement

SFP	Security Function Policy
SFR	Security Functional Requirement
ST	Security Target
TOE	Target of Evaluation
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.

13. Bibliography

- [1] Common Criteria for Information Technology Security Evaluation, Version 3.1, Part 1: Introduction and general model, Revision 5, April 2017
Part 2: Security functional components, Revision 5, April 2017
Part 3: Security assurance components, Revision 5, April 2017
<https://www.commoncriteriaportal.org>
- [2] Common Methodology for Information Technology Security Evaluation (CEM), Evaluation Methodology, Version 3.1, Rev. 5, April 2017,
<https://www.commoncriteriaportal.org>

- [3] BSI certification: Scheme documentation describing the certification process (CC-Produkte) and Scheme documentation on requirements for the Evaluation Facility, approval and licencing (CC-Stellen), <https://www.bsi.bund.de/zertifizierung>
- [4] Application Notes and Interpretations of the Scheme (AIS) as relevant for the TOE⁷ <https://www.bsi.bund.de/AIS>
- [5] German IT Security Certificates (BSI 7148), periodically updated list published also on the BSI Website, <https://www.bsi.bund.de/zertifizierungsberichte>
- [6] Security Target BSI-DSZ-CC-1131-2020, Revision 1.27, 23.03.2020, Security Target Sensor 2185 (KITAS 4.0), Release 1.10, Continental Automotive GmbH (confidential document)
- [7] Evaluation Technical Report BSI-DSZ-CC-1131-2020 for Sensor 2185 (KITAS 4.0) from Continental VDO, Version 1.35, 07.07.2020, T-Systems International GmbH – Prüfstelle für IT-Sicherheit, (confidential document)
- [8] Digital Tachograph - Motion Sensor (MS PP) Version 1.0, 9 May 2017, BSI-CC-PP-0093-2017
- [9] Security Target Lite BSI-DSZ-CC-1131-2020, Revision 1.27, 07.05.2020, Security Target Sensor 2185 (KITAS 4.0), Release 1.10, Continental Automotive GmbH (sanitised public document)
- [10] Commission Implementing Regulation (EU) 2016/799 of 18 March 2016 implementing Regulation (EU) 165/2014 of the European Parliament and of the Council laying down the requirements for the construction, testing, installation, operation and repair of tachographs and their components
- [11] Configuration list for the TOE, Continental AG, Version 1.32, 04.05.2020 (confidential document)
- [12] Digitaler Tachograph – DTCO 4.0, Leitfaden für die Kontrollorgane, VDO, BA00.1381.40 201 101, 17.04.2020, Version 2.2, Continental Automotive GmbH
- [13] Digitaler Tachograph DTCO 4.0, Technische Beschreibung, VDO, TD00.1381.40 101 101 – 41265524 OPM 00 AB, 02/2020, Continental Automotive GmbH
- [14] Sensor 2185 (KITAS 4.0) Guidance for VU Manufacturers, Revision 1.2, File name: HOM.0510, 25.03.2020, Continental Automotive GmbH
- [15] KITAS 4.0: Interface Specification and requirements for tachographs, Version 2.4, File Name: CUMA.0285m, 12.01.2019, Continental AG

⁷specifically

- AIS 25, Version 9, Anwendung der CC auf Integrierte Schaltungen including JIL Document and CC Supporting Document
- AIS 26, Version 10, Evaluationsmethodologie für in Hardware integrierte Schaltungen including JIL Document and CC Supporting Document
- AIS 34, Version 3, Evaluation Methodology for CC Assurance Classes for EAL 5+ (CCv2.3 & CCv3.1) and EAL 6 (CCv3.1)
- AIS 35, Version 2, Öffentliche Fassung des Security Targets (ST-Lite) including JIL Document and CC Supporting Document and CCRA policies
- AIS 36, Version 5, Kompositionsevaluierung including JIL Document and CC Supporting Document
- AIS 38, Version 2, Reuse of evaluation results

- [16] Evaluation Technical Report for composite evaluation, Project ST33G1M2A1, LATOUR AM2 Surveillance 2018, Thales Communications & Security SAS, Version 1.0, 2019-10-08

C. Excerpts from the Criteria

For the meaning of the assurance components and levels the following references to the Common Criteria can be followed:

- On conformance claim definitions and descriptions refer to CC part 1 chapter 10.5
- On the concept of assurance classes, families and components refer to CC Part 3 chapter 7.1
- On the concept and definition of pre-defined assurance packages (EAL) refer to CC Part 3 chapters 7.2 and 8
- On the assurance class ASE for Security Target evaluation refer to CC Part 3 chapter 12
- On the detailed definitions of the assurance components for the TOE evaluation refer to CC Part 3 chapters 13 to 17
- The table in CC part 3 , Annex E summarizes the relationship between the evaluation assurance levels (EAL) and the assurance classes, families and components.

The CC are published at <https://www.commoncriteriaportal.org/cc/>

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

Annex B of Certification Report BSI-DSZ-CC-1131-2020

Evaluation results regarding development and production environment



The IT product Sensor 2185 (KITAS 4.0), Release 1.10 (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 13 July 2020, 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) Continental Automotive GmbH, Heinrich-Hertz-Str. 45, 78052 Villingen (TOE development, testing and building, delivery)
- b) Atos IT Solutions and Services GmbH, Würzburger Straße 121, 90766 Fürth, Germany (TOE development)
- c) Atos IT Solutions and Services d.o.o., Zrinsko-Frankopanska 64, 21000 Split, Croatia (TOE development and testing)
- d) Atos IT Solutions and Services GmbH, Otto-Hahn-Ring 6, 81739 München, Germany (TOE development and environment administration)
- e) Continental Automotive GmbH, 300704 Timisoara, Strada Siemens Nr. 1, Romania (SW development and testing)
- f) Continental Automotive Components (India) Private Ltd, Gold Hill Supreme Software Park, Plot No 21,22,27,28 Shanthipura Rd Electronics City Phase II, Industrial Area Hosur Road 560100 Bangalor Electronic City, Bengaluru, Karnataka 560100, India (SW development)

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] and [9]) are fulfilled by the procedures of these sites.

Note: End of report