Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-17052-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: **13.08.2021**

Date of issue: 26.08.2021

Holder of certificate:

NavCert GmbH
Hermann-Blenk-Straße 22a, 38108 Braunschweig

with the location:
Schwanthaler Strasse 14, 80336 München

Tests in the fields:

GNSS based area measurement systems, equipment and systems for measurement of geodetic coordinates; Intelligent Transport Systems - eSafety and eCall; Technical approval of eCall in-vehicles systems, separate technical units and components according to Regulation (EU) 2017/79 (only Annex I, II, III, IV, V, VI, VII, VIII); Testing and measurements within modules G, A1, A2, B, C1, C2, F, F1 the European Electronic Toll Service and its technical elements (EETS)

Within the scope of accreditation, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standard or equivalent testing methods listed here with different issue dates.
The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

The certificate together with the annex reflects the status as indicated by the date of issue.
The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH https://www.dakks.de/en/content/accredited-bodies-dakks.

Abbreviations used: see last page

1. GNSS-based measurement systems (GPS, Galileo, Glonass, Compass)

PPP80013 2020-06	Ground Based Augmentation Systems
PPP80019 2020-06	RTK Services for Dynamic Applications
ISO 17123-8 2015-06	Optics and optical instruments - Field procedures for testing geodetic and surveying instruments - Part 8: GNSS field measurement systems in real-time kinematic (RTK)
PPP88101 2020-04	Testing according to Delegated Regulation 2017/79 Annex VI
DIN EN 16803-1 2016-12	Space - Use of GNSS-based positioning for road Intelligent Transport Systems (ITS) - Part 1: Definitions and system engineering procedures for the establishment and assessment of performances;
E DIN EN 16803-02 2019-03	Space - Use of GNSS-based positioning for road Intelligent Transport Systems (ITS) - Part 2: Assessment of basic performances of GNSS-based positioning terminals.
E DIN EN 16803-3 2019-03	Space - Use of GNSS-based positioning for road Intelligent Transport Systems (ITS) - Part 3: Assessment of security performances of GNSS-based positioning terminals
PPP88113 2021-02	GNSS-Simulator Interlaboratory Tests
PPP88114 2021-02	GNSS Real Time interlaboratory tests
PPP88116 2020-12	UAS Delegated Regulation (EU) 2019-945
PPP88117 2021-02	Assessment of a GNSS Reference System

2. Alarm units in vehicles (eSafety - eCall)

ETSI TS 103 412 2018-04	Mobile Standards Group (MSG); Pan-European eCall end to end and in-band modem conformance testing; Prose test specification
ÖNORM EN 16454 2015-10	Intelligent transport systems - ESafety - eCall end to end conformance testing
DIN EN 15722 2021-01	Intelligent transport systems - ESafety - eCall minimum set of data
PPP80025 2020-04	Test program for an eCall simulator
DIN EN 16062 2015-08	Intelligent transport systems - ESafety - eCall high level application requirements (HLAP) using GSM/UMTS circuit switched networks
ÖNORM EN 16454 2015-10	Intelligent transport systems - ESafety - eCall end to end conformance testing
DIN EN 15722 2015-04	Intelligent transport systems - ESafety - ECall minimum set of data (withdrawn standard)
PPP80029 2020-04	Test plan for Conformity Assessment for PSAP *(valid: only for testing of components)*
ÖNORM EN 16454 2015-10	Intelligent transport systems - ESafety - eCall end to end conformance testing
PPP80030 2020-04	Test plan for eCall IVS
ÖNORM EN 16454 2015-10	Intelligent transport systems - ESafety - eCall end to end conformance testing
DIN EN 15722 2015-04	Intelligent transport systems - ESafety - ECall minimum set of data (withdrawn standard)
DIN EN 16062 2015-08	Intelligent transport systems - ESafety - eCall high level application requirements (HLAP)

PPP80031 2020-04	PSAP test point for eCall in-vehicle systems
DIN EN 16062 2015-08	Intelligent transport systems - ESafety - eCall high level application requirements (HLAP)
ÖNORM EN 16454 2015-10	Intelligent transport systems - ESafety - eCall end to end conformance testing
DIN EN 15722 2015-04	Intelligent transport systems - ESafety - ECall minimum set of data (withdrawn standard)
Delegated Regulation (EU) 2017/79 2016-09	Commission delegated Regulation (EU) 2017/79 of 12 September 2016 establishing detailed technical requirements and test procedures for the EC- type –approval of motor vehicles with respect to their 112-based eCall in-vehicles systems, of 112-based eCall in- vehicles separate technical units and components and supplementing and amending Regulation (EU) 2015/758 of the European Parliament and of the Council with regard to the exemptions and applicable standards, Annex I Technical requirements and procedures for testing the resistance of eCall in-vehicle systems to severe crashes (high-severity deceleration test), Annex II Full-scale impact test assessment, only on-board eCall-Systems Annex III Crash resistance of audio equipment, Annex IV Co-existence of third party services (TPS) with the 112-based eCall in-vehicle systems, Annex V Automatic triggering mechanism, Annex VI Technical requirements for compatibility of eCall in-vehicle systems with the positioning services provided by the Galileo and the EGNOS systems, Annex VII In-vehicle system self-test, Annex VIII Technical requirements and test procedures related to privacy and data protection
PPP80034 2020-02	Conformity of retrofit TPS unit

3. European Electronic Toll Services and its technical components (EETS)

PPP80032B 2020-02	Prüfung der Interoperabilitätskomponenten der BackOffice Systeme
CEN ISO/TS 17574 2009	Electronic fee collection - Guidelines for security protection profiles
DIN EN ISO 12855 2016-04	Electronic fee collection - Information exchange between service provision and toll charging *(withdrawn standard)*
DIN EN ISO 17575-1 2016-08	Electronic fee collection - Application interface definition for autonomous systems - Part 1: Charging
DIN EN ISO 17575-3 2016-08	Electronic fee collection - Application interface definition for autonomous systems - Part 3: Context data

Abbreviations used:

Decision 2009/750/EG	Commission Decision of 6th of October 2009 on the definition of the European Electronic Toll Service and its technical elements (notified under document C (2009) 7547) (ABl. L 268 from 13.10.2009, S. 11-29)
Directive 2004/52/EG	Directive 2004/52/EC of the European Parliament and of the Council of 29th of April 2004 on the interoperability of electronic road toll systems in the Community (ABl. L 166 from 30.04.2004, S. 124; Correction ABl. L 200 from 07.06.2004, S. 50-57)
GNSS	Global Navigation Satellite System
GPS	Global Positioning System, GNSS, USA
Galileo	GNSS, Europe
Glonass	Globalnaja nawigazionnaja sputnikowaja Sistema - GNSS, Russian Federation
Compass/Beidou	GNSS People's Republic of China
Module	Decision 768/2008/EG 9 July 2008 on common framework for the marketing of products, and repealing Council Decision 93/465/EEC, Modules according to Annex II
PPP	in-house method of NavCert GmbH (Privates Prüf-Programm)
PSAP	Public Safety Answering Point