

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-17052-01-00 according to DIN EN ISO/IEC 17025:2005

Valid from: 26.08.2019

Date of issue: 26.08.2019

Holder of certificate:

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

Tests in the fields:

GNSS based area measurement systems, equipment and systems for measurement of geodetic coordinates;

Intelligent Transport Systems - eSafety and eCall, Delegated Regulation 2017/79 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-vehicle 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 (only Annex I, IV, V, VI, VII, VIII) (eCall);

Testing and measurements within modules G, A1, A2, B, C1, C2, F, F1 the European Electronic Toll Service and its technical elements (EETS);

Assessment of digital maps and other testing

Abbreviations used: see last page

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

PPP80010 2010-04	Test program for area measurements with GPS handhelds
PPP80013 2016-06	Test program for ground-based Correction Data Service for satellite positioning
PPP80019 2014-05	Test program for ground-based Correction Data Service for satellite positioning for in-motion farming applications
PPP80021 2015-10	Test program for ground-based test and development environment for the simulation of Galileo signals in the real world (Galileo test-bed)
PPP80015 2014-12	Test program for devices to log trips
PPP80018 2013-12	Test program for certification of a GNSS multi-constellation simulator
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 2017-08	Testing according Delegated Regulation 2017/79 Annex VI

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2. Alarm units in vehicles (eSafety - eCall)

ETSI TS 103 412 2016-04	Mobile Standards Group (MSG); Pan-European eCall end to end and in-band modem conformance testing; Prose test specification
PPP80022 2013-11	Test program for an eCall test environment for eCall In-Vehicle Systems
DIN EN 16062 2012-01	Intelligent Transport Systems - ESafety - eCall high level application requirements (HLAP) (<i>withdrawn standard</i>)
DIN CEN/TS 16454 2013-08	Intelligent Transport Systems - ESafety - eCall end-to-end conformance tests eCall
DIN EN 15722 2011-10	Road transport and traffic telematics - ESafety - eCall minimum set of data (<i>withdrawn standard standard</i>)
BS EN 16072 2011-10	Intelligent transport systems - ESafety - operating requirements (<i>withdrawn standard</i>)
PPP80025 2014-01	Test program for an eCall simulator
DIN EN 16062 2012-01	Intelligent transport systems - ESafety - eCall high level application requirements (HLAP) (<i>withdrawn standard</i>)
DIN CEN/TS 16454 2013-08	Intelligent transport systems - ESafety - eCall end-to-end conformance tests eCall
DIN EN 15722 2011-10	Road transport and traffic telematics - ESafety - eCall minimum set of data (<i>withdrawn standard</i>)
PPP80026 2014-08	Test program for an ERA Glonass test environment for eCall In-Vehicle Systems
DIN EN 15722 2011-10	Road transport and traffic telematics - ESafety - eCall minimum set of data (<i>withdrawn standard</i>)
ÖNORM EN 16454 2015-10	Intelligent transport systems - ESafety - eCall end to end conformance testing;
PPP80029C 2017-11	Test plan for Conformity Assessment for PSAP (<i>valid: only for testing of components</i>)
ÖNORM EN 16454 2015-10	Intelligent transport systems - ESafety - eCall end to end conformance testing
ETSI TS 103 412 V1.1.1 2016-04	Mobile Standards Group (MSG); Pan-European eCall end to end and in-band modem conformance testing; Prose test specification

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PPP80030 2017-03	Test plan for eCall IVS
ÖNORM EN 16454 2015-10	Intelligent transport systems - ESafety - eCall end to end conformance testing
EN 15722 2015-04	Intelligent transport systems - ESafety - eCall minimum set of data
DIN EN 16062 2015-08	Intelligent transport systems - ESafety - eCall high level application requirements (HLAP) using GSM/UMTS circuit switched networks ,
PPP80031 2017-08	PSAP test point for eCall in-vehicle systems
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
EN 15722 2015-04	Intelligent transport systems- ESafety - eCall minimum set of data
PPP88102 2017-12	Test Plan EN16454 IVS Type approval
ÖNORM EN 16454 2015-10	Intelligent transport systems- ESafety - eCall end to end conformance testing
DIN EN 16072 2015-08	Intelligent transport systems - ESafety - Pan-European eCall operating requirements
DIN EN16062 2015-08	Intelligent transport systems - ESafety - eCall high level application requirements (HLAP) using GSM/UMTS circuit switched networks
EN15722 2015-04	Intelligent transport systems - ESafety - eCall minimum set of data
BS EN 16102 2011-12	Intelligent transport systems - eCall - Operating requirements for third party support

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PPP88103A 2018-02	Technical requirements and procedures for testing the resistance of eCall in-vehicle systems to severe crashes (high-severity deceleration test) (DR 2017/79 Annex I)
PPP88104A 2018-02	Co-existence of TPS with the 112-based eCall in-vehicle systems (DR 2017/79 Annex IV)
PPP88105 2018-02	Automatic triggering mechanism (DR 2017/79 Annex V)
PPP88106 2018-02	In-vehicle system self-test (DR 2017/79 Annex VII)
PPP88107 2018-02	Testing according Delegated Regulation 2017/79 Annex VIII
DIN EN 16062 2015-08	Intelligent transport systems - ESafety - eCall high level application requirements (HLAP) using GSM/UMTS circuit switched networks (Chapter 11)
EN 15722 2015-04	Intelligent transport systems - ESafety - eCall minimum set of data
BS EN 16102 2011-12	Intelligent transport systems - eCall - Operating requirements for third party support
BS EN 16072 2015-04	Intelligent transport systems - ESafety - Pan-European eCall operating requirements

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

PPP80032 2017-09	Prüfung der Interoperabilitätskomponenten der BackOffice Systeme
CEN ISO/TS 17574 2009	Electronic fee collection - Guidelines for security protection profiles
ISO 12855 2012-02	Electronic fee collection - Information exchange between service provision and toll charging (<i>withdrawn standard</i>)

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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

4. Assessment of digital maps and other testing

PPP80014 2012-09	Test program for processes supporting the assessment of digital maps
PPP80016 2012-07	Test program for services which provides up-to-date traffic information
PPP80027 2014-10	Test program for processes supporting the assessment of digital address information
PPP80033 2017-10	Test plan for Fiscal-Telematics

The requirements according to the minimum criteria of the decision 2009/750/EC Annex V are fulfilled for Testing according ISO/IEC 17025. Particularly with regard to 2009/750/EC Annex V (c), impartiality of the body, its Director and its responsible staff is granted at all times.

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Abbreviations used:

Decision 2009/750/EG	Commission Decision of 6 th 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 29 th 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)
DR 2017/19	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-vehicle 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
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
JRC	Joint Research Centre, Ispra
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

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