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BSI Standards Publication

Intelligent transport systems - Cooperative ITS - Test requirements and Protocol Implementation Conformance Statement (PICS) pro forma for CEN ISO/TS 17426

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National foreword

This Published Document is the UK implementation of CEN ISO/TS 21189:2019. It is identical to ISO/TS 21189:2019.

The UK participation in its preparation was entrusted to Technical Committee EPL/278, Intelligent transport systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Intelligent transport systems - Cooperative ITS - Test requirements and Protocol Implementation Conformance Statement (PICS) pro forma for CEN ISO/TS 17426 (ISO/TS 21189:2019)

Systèmes de Transport Intelligents - ITS Coopératifs - Exigences d'essais et Déclaration pro forma de conformité de l'implémentation du protocole de la norme CEN ISO/TS 17426 (ISO/TS 21189:2019)

Intelligente Verkehrssysteme - Kooperative ITS - Prüfanforderungen und pro-forma Konformitätsaussagen zur Protokollimplementierung (PICS) zur CEN ISO/TS 17426 (ISO/TS 21189:2019)

This Technical Specification (CEN/TS) was approved by CEN on 21 March 2019 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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European foreword

This document (CEN ISO/TS 21189:2019) has been prepared by Technical Committee ISO/TC 204 "Intelligent transport systems" in collaboration with Technical Committee CEN/TC 278 “Intelligent transport systems” the secretariat of which is held by NEN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO/TS 21189:2019 has been approved by CEN as CEN ISO/TS 21189:2019 without any modification.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The harmonized deployment of Cooperative ITS is expected to improve road safety, support traffic management, and reduce greenhouse gas emissions. Delivering Contextual Speed information to road users is a key component of this development.

The purpose of this document is to provide a mechanism whereby a supplier of an implementation of the requirements defined in ISO/TS 17426 may provide information about the implementation in a standardized manner.

According to ISO/TS 20026 and ETSI EG 202 798 V1.1.1 (2011-01), three deliverables should be developed to produce a complete set of Conformance Test Specifications for the Contextual Speed Information Service as defined in ISO/TS 17426:2016:

— Test requirements and Protocol Implementation Conformance Statement (PICS) pro forma;

— Test Suite Structure and Test Purposes (TSS & TP);

— Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) pro forma.

This document catalogues the Contextual Speed Information Service testable requirements, enabling to draft "Test Suite Structure and Test Purposes (TSS & TP)“ and "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) pro forma” deliverables.

The two last deliverables are however out of the scope of this document.

TECHNICAL SPECIFICATION **ISO/TS 21189:2019**

Intelligent transport systems - Cooperative ITS - Test requirements and Protocol Implementation Conformance Statement (PICS) pro forma for CEN ISO/TS 17426

1 Scope

This document provides the Protocol Implementation Conformance Statement (PICS) pro forma for conformance test specification for the Contextual Speed Information Service as defined in ISO/TS 17426:2016 in accordance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 9646-1, *Information technology — Open Systems Interconnection — Conformance testing methodology and framework — Part 1: General concepts*

ISO/IEC 9646-7, *Information technology — Open Systems Interconnection — Conformance testing methodology and framework — Part 7: Implementation Conformance Statements*

ISO/TS 17426:2016, *Intelligent transport systems — Cooperative systems — Contextual speeds*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/TS 17426:2016, ISO/IEC 9646-1 and ISO/IEC 9646-7 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at http://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4 Symbols and abbreviated terms

ADU	Application Data Unit
ATS	Abstract Test Suite
BSMD	Bounded Secured Managed Domain
C-ITS	Cooperative ITS
CSM	Contextual Speed Message
HMI	Human Machine Interface
ICT	Information Communications Technologies