INTERNATIONAL STANDARD

ISO 14819-2

Second edition
2013-12-01

Intelligent transport systems — Traffic and travel information messages via traffic message coding —

Part 2:
Event and information codes for Radio Data System — Traffic Message Channel (RDS-TMC) using ALERT-C

Systèmes intelligents de transport — Informations sur le trafic et le tourisme via le codage de messages sur le trafic —

Partie 2: Codes d'événements et d'informations pour le système de radiodiffusion de données (RDS) — Canal de messages d'informations sur le trafic (RDS-TMC) avec ALERT-C

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Foreword

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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. www.iso.org/directives

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 204, *Intelligent transport systems.*

This second edition cancels and replaces the first edition (ISO 14819-2-2003), which has been technically revised.

ISO 14819 consists of the following parts, under the general title *Intelligent transport systems — Traffic and travel information messages via traffic message coding*:

⎯ *Part 1: Coding protocol for Radio Data System — Traffic Message Channel (RDS-TMC) using ALERT-C*

⎯ *Part 2: Event and information codes for Radio Data System — Traffic Message Channel (RDS-TMC) using ALERT-C*

⎯ *Part 3: Location referencing for Radio Data System — Traffic message Channel (RDS-TMC) using ALERT-C*

⎯ *Part 6: Encryption and conditional access for the Radio Data System — Traffic Message Channel ALERT C coding*

Compared to previous releases, this version includes the following additions:

⎯ Precise location referencing

⎯ Tendencies of Traffic Queue Lengths (TTQL)

⎯ Coding of parking POIs

⎯ Coding of interrupted roads

— Coding of other isolated POIs (except parking POIs)

— Coding of parallel roads

— Version identification of TMC location tables

— Location Table Exchange Format

— North American Safety Events in TMC

— Explicit Location Table Country Code transmission in TMC

— Guidelines for Service Providers and Terminal Manufacturers for Implementation of explicit Location Table Country Code transmission

— Coding of link roads

— GB-English - List of Quantifiers

— Additional Event Codes identified by Germany

— Additional TMC Events from Danish proposal

— Additional TMC Supplementary Information: Unconfirmed Report

— RDS-TMC delivery of IVR Telephone Number

— Coding of link roads

Introduction

ISO 14819-2 is the second part of the ISO 14819 series of standards, covering the so-called 'ALERT-C' protocol encoded for transmission into the RDS-TMC feature. Therefore, this part of ISO 14819 is intended to uniquely and solely be considered together with ISO 14819-1, for a complete understanding.

ISO 14819-1 fully describes the ALERT-C protocol concept and relationship with the RDS standard, IEC 62106.

In this version of ISO 14819-2, the content and the structure of the 'Events List' have not been altered, but recent work from the FORCE/ECORTIS Projects regarding translations and a number of improved formatting ideas suggested by the EPISODE Project, have been introduced. Additionally, mention is made of suggested 'Event List' sub-sets.

In particular, this part of ISO 14819 contains the special meta-language, in the so-called 'CEN-English', which the technical experts of CEN TC 278 agreed would be the only and sole source for all coded descriptions used in RDS-TMC. This methodology has allowed agreement in important details for the many hundreds of event phrases, so included, even though subtle linguistic differences were perceived and need to be allowed for in terms of end-user presentation. Thus, the French and German language editions of this series have the same form as this English language edition. All three language editions have exactly the same sections 3.1.3 Event List, 3.2.2 Supplementary Information List and 3.3.2 Forecast Event List written in 'CEN-English'. Each language edition comprises informative annexes providing those lists again in three or four column format showing the 'CEN-English' description and the 'transformed' language (not necessarily a direct literal translation, but a comprehensible transformation of the specific intent of the 'CEN-English') description in their respective languages.

Translations into other languages, based upon the normative 'CEN-English' have been produced and are available from the Traveller Information Services Association (www.tisa.org).

Intelligent transport systems — Traffic and travel information messages via traffic message coding —

Part 2:
Event and information codes for Radio Data System — Traffic Message Channel (RDS-TMC) using ALERT-C

1   Scope

ISO 14819-1 describes the ALERT-C protocol concept and message structure used to achieve densely coded messages to be carried in the RDS-TMC feature. This part of ISO 14819 defines the 'Events List' to be used in coding those messages.

2   Normative references

The following referenced documents are indispensable for the application 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 14819-1, *Intelligent transport systems — Traffic and travel information messages via traffic message coding — Part 1: Coding protocol for Radio Data System — Traffic Message Channel (RDS-TMC) using ALERT-C*

IEC 62106:2009, *Specification of the radio data system (RDS) for VHF/FM sound broadcasting in the frequency range from 87,5 to 108,0 MHz*

3   Event and Information codes for Traffic Message Channel

3.1   Event list

3.1.1   Explanatory notes

1)   The event list is divided into update classes, indicated by the various sections. These update classes are used for terminal message management, as indicated in Section 6.1 of ISO 14819-1. The event list is shown in the format of a database.

  NOTE   The first column of the Event list in 3.1.3, Table 2 shows line numbers to assist reading and use of the database.

2)   The second column gives a 'technical language' (so-called CEN-English) description of the event code, of which the code is shown in the third field. Appropriate authorities of each country have been responsible for the exact descriptions in other languages.

  This will ensure precise definitions and use of the event codes in the transmission layer. Individual terminal implementations may handle these (translated) descriptions with some flexibility. To allow a more effective presentation however without altering the meaning.