DIN CEN ISO/TS 18234-9:2014-07 (E)

Intelligent transport systems - Traffic and travel information via transport protocol experts group, generation 1 (TPEG1) binary data format - Part 9: Traffic event compact (TPEG1-TEC) (ISO/TS 18234-9:2013); English version CEN ISO/TS 18234-9:2013

Contents

Page

Foreword v

Introduction vii

1 Scope 1

2 Normative References 1

3 Terms and definitions 1

4 Abbreviated terms 2

5 Application framing and signalling 2
5.1 Application identification 2
5.2 Version number signalling 3
5.3 Application framing 3
5.4 Application specific constraints 3

6 Message components 6
6.1 List of Generic Component Ids 7
6.2 TECMessage 7
6.2.1 MessageManagement 7
6.2.2 Instances of Location Containers 8
6.2.3 Event 8

7 Datatypes 20
7.1 RestrictionType 20
7.2 SegmentModifier 21
7.3 TEC Tables 21
7.3.1 tec001:EffectCode 21
7.3.2 tec002:CauseCode 21
7.3.3 tec003:WarningLevel 23
7.3.4 tec004:LaneRestriction 24
7.3.5 tec005:AdviceCode 24
7.3.6 tec006:Tendency 25
7.3.7 tec007:RestrictionType 25
7.3.8 tec008:DiversionRoadType 27
7.3.9 tec009:VehicleType 27
7.3.10 SubCauseType 28
7.3.11 SubAdviceType 39

Annex A (normative) Binary SSF and Data Types 42

A.1 Conventions and symbols 42
A.1.1 Conventions 42
A.1.2 Symbols 42
A.2 Representation of syntax 43
A.2.1 General 43

A.2.2 Data type notation 43
A.2.3 Application dependent data types 46
A.2.4 Toolkits and external definition 50
A.2.5 Application design principles 51
A.3 TPEG data stream description 51
A.3.1 Diagrammatic hierarchy representation of frame structure 51
A.3.2 Syntactical Representation of the TPEG Stream 52
A.3.3 Description of data on Transport level 56
A.3.4 Description of data on Service level 57
A.3.5 Description of data on Service component level 58

ISO/TS 18234-9:2013(E) A.4 General binary data types 59
A.4.1 Primitive data types 59
A.4.2 Compound data types 64
A.4.3 Table definitions 67
A.4.4 Tables 69

Annex B (normative) TPEG Message Management Container, MMC (Binary) 85

B.1 Terms and Definitions 85
B.1.1 Message 85
B.1.2 Monolithic Message Management 85
B.1.3 Multi-Part Message Management 85
B.1.4 Top Level Container 85
B.2 Symbols (and abbreviated terms) 85
B.2.1 MMC 85
B.2.2 PKI 85
B.3 Introduction 85
B.4 Message Components 86
B.4.1 MMCTemplate 86
B.4.2 MessageManagementContainer 88
B.4.3 MMCMasterMessage 89
B.4.4 MMCMessagePart 91
B.5 Datatypes 92
B.5.1 MultiPartMessageDirectory 92
B.6 Tables 93
B.6.1 Structure and semantics 93
B.6.2 Indexing 93
B.6.3 Codes, Names and Comments 93

Bibliography 95