

ISO 21219-2:2019 (E)

Intelligent transport systems — Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) — Part 2: UML modelling rules (TPEG2-UMR)

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Abbreviated terms
5	TPEG UML model definition
5.1	Allowed UML elements
5.1.1	Class
5.1.2	Abstract class
5.1.3	Attribute
5.1.4	Dependency
5.1.5	Specialization
5.1.6	Stereotype
5.1.7	Tagged values
5.1.8	Notes
5.2	Modelling rules and recommendations
5.2.1	General
5.2.2	Order of elements
5.2.3	Stereotypes
5.2.3.1	TPEG Application
5.2.3.2	TPEG Toolkit
5.2.3.3	TPEG DataTypes
5.2.3.4	DataStructure
5.2.3.5	Enumeration
5.2.3.6	External
5.2.3.7	UnorderedComponentGroup
5.2.3.8	OrderedComponentGroup
5.2.3.9	BinaryDataContainer
5.2.4	Data types
5.2.5	Optional Booleans
5.2.6	Tables and Switching Tables
5.2.7	Inclusion of DataStructures
5.2.8	Inclusion of Components in DataStructures
5.2.9	Linking abstract classes
5.2.10	Graphical representation
5.2.11	Documentation
5.3	Extending TPEG UML models
5.4	Adding documentation to TPEG UML models
5.4.1	Class documentation
5.4.2	Attribute description
6	Drafting specifications using UML models
6.1	General
6.2	Specification of contents
6.2.1	Foreword

6.2.2	Introduction
6.2.3	Scope
6.2.4	Bibliography
6.3	Normative clauses
6.3.1	Application specific constraints
6.3.2	Class model
6.3.3	Components
6.3.4	Datatypes
6.3.5	Tables
6.4	Specification of normative annexes

Annex A (normative) TPEG abstract data types

A.1	Data type definition
A.2	Data type guidelines
A.2.1	MultiBytes
A.2.2	TimeInterval
A.2.3	TimePoint
A.2.4	TimeToolkit

Annex B (normative) TPEG tables

B.1	typ001:LanguageCode
B.2	typ002:SpecialDay
B.3	typ003:CurrencyType
B.4	typ004:NumericalMagnitude
B.5	typ005:CountryCode
B.6	typ006:OrientationType
B.7	typ007:Priority
B.8	typ008:OptionalBoolean

Page count: 42