

ISO 14817-1:2015-10 (E)

Intelligent transport systems - ITS central data dictionaries - Part 1: Requirements for ITS data definitions

| Contents | | Page |
|--------------------|---|-------------|
| Foreword | | v |
| Introduction | | vi |
| 1 | Scope | 1 |
| 2 | Conformance | 1 |
| 3 | Normative references | 2 |
| 4 | Terms and definitions | 2 |
| 5 | Symbols and abbreviated terms | 9 |
| 6 | Data concepts | 10 |
| 6.1 | Summary of data concepts | 10 |
| 6.2 | Documentation Data Concepts | 12 |
| 6.2.1 | Dictionary Document | 13 |
| 6.2.2 | Module | 13 |
| 6.3 | Data model Data Concepts | 13 |
| 6.3.1 | Object class | 14 |
| 6.3.2 | Data element | 14 |
| 6.3.3 | Value domain | 15 |
| 6.4 | Interface Data Concepts | 15 |
| 6.4.1 | Interface dialogue | 16 |
| 6.4.2 | Message | 17 |
| 6.4.3 | Data frame | 17 |
| 6.4.4 | Aggregate domain | 17 |
| 7 | Meta-attributes | 17 |
| 7.1 | Identification and naming meta-attributes | 17 |
| 7.1.1 | Data concept identifier | 17 |
| 7.1.2 | Data concept version | 18 |
| 7.1.3 | Data concept revision | 18 |
| 7.1.4 | Nominal version | 18 |
| 7.1.5 | Document identifier | 18 |
| 7.1.6 | Contextual name | 19 |
| 7.1.7 | Descriptive name | 19 |
| 7.1.8 | Historic descriptive name | 19 |
| 7.1.9 | ASN.1 name | 19 |
| 7.1.10 | Historic ASN.1 name | 19 |
| 7.1.11 | Object identifier | 19 |
| 7.1.12 | Uniform resource locator | 19 |
| 7.2 | Definitional meta-attributes | 20 |
| 7.2.1 | Definition | 20 |
| 7.2.2 | Source | 20 |
| 7.2.3 | Data concept type | 20 |
| 7.2.4 | Remark | 20 |
| 7.2.5 | Context | 20 |
| 7.2.6 | Dialogue Order Rules | 20 |
| 7.3 | Relational meta-attributes | 20 |

| | | |
|---|--|----|
| 7.3.1 | Parent object class | 21 |
| 7.3.2 | Precursor | 21 |
| 7.3.3 | Successor | 21 |
| 7.3.4 | Synonym | 21 |
| 7.3.5 | Abstract | 21 |
| 7.3.6 | Multiplicity | 21 |
| 7.3.7 | Superclass | 21 |
| 7.3.8 | Referenced message | 21 |
| 7.3.9 | Referenced data frame | 21 |
| 7.3.10 | Referenced data element | 21 |
| 7.4 | Representational meta-attributes | 22 |
| 7.4.1 | Data type | 22 |
| 7.4.2 | Format | 23 |
| 7.4.3 | Unit of measure | 24 |
| 7.4.4 | Valid value rule | 24 |
| 7.4.5 | Constraint | 24 |
| Annex A (normative) Meta-attribute requirements | | 25 |
| Annex B (normative) Naming conventions | | 29 |
| Annex C (normative) Preferred data concepts | | 35 |
| Annex D (informative) Data models | | 47 |
| Annex E (informative) Legacy data | | 55 |
| Bibliography | | 64 |