

# ISO 14817:2002-12 (E)

## Transport information and control systems - Requirements for an ITS/TICS central Data Registry and ITS/TICS Data Dictionaries

---

| <b>Contents</b>    |  | <b>Page</b> |
|--------------------|--|-------------|
| Foreword .....     |  | v           |
| Introduction ..... |  | vi          |
| 0.1                | Background .....   | vi          |
| 0.2                | Document overview .....                                      | vii         |
| 1                  | Scope .....  | 1           |
| 2                  | Conformance .....  | 1           |
| 2.1                | Conformance considerations .....                             | 1           |
| 2.2                | Strictly conforming implementations .....                    | 2           |
| 2.3                | Conforming implementations .....                             | 2           |
| 3                  | Normative references .....                                   | 2           |
| 4                  | Terms and definitions .....                                  | 2           |
| 5                  | Symbols and abbreviated terms .....                          | 5           |
| 6                  | Concept of operation .....                                   | 6           |
| 6.1                | Summary .....  | 6           |
| 6.2                | Framework .....  | 7           |
| 6.3                | Organizational roles .....                                   | 8           |
| 6.4                | Registration status levels .....                             | 10          |
| 6.5                | Procedures .....   | 11          |
| 6.6                | Version control .....  | 12          |
| 7                  | Data concepts .....  | 12          |
| 7.1                | Summary of data concepts .....                               | 12          |
| 7.2                | Interface dialogue .....                                     | 14          |
| 7.3                | Message .....  | 14          |
| 7.4                | Data frame .....   | 14          |
| 7.5                | Object class .....   | 14          |
| 7.6                | Association .....  | 14          |
| 7.7                | Property .....   | 15          |
| 7.8                | Data element concept .....                                   | 15          |
| 7.9                | Value domain .....   | 15          |
| 7.10               | Data element .....   | 15          |
| 8                  | Data concept meta attributes .....                           | 15          |
| 8.1                | Basic meta attributes of data concepts .....                 | 15          |
| 8.2                | Administrative meta attributes .....                         | 17          |
| 9                  | Data concept names .....                                     | 18          |
| 9.1                | Descriptive names .....                                      | 18          |
| 9.2                | Data concept descriptive name formats .....                  | 18          |
| 10                 | Meta attribute requirements for ITS/TICS data concepts ..... | 19          |
| 11                 | International relationships .....                            | 19          |

|   |           |
|---|-----------|
| <b>Annex A (informative) ITS/TICS functional operating procedures .....</b>   | <b>21</b> |
| <b>Annex B (normative) Contents of the ITS/TICS Data Registry and ITS/TICS Data Dictionaries: Meta<br/>attribute definitions .....</b>                    | <b>37</b> |
| <b>Annex C (normative) Contents of the ITS/TICS Data Registry and ITS/TICS Data Dictionaries: Meta<br/>attribute requirements for data concepts .....</b> | <b>51</b> |
| <b>Annex D (normative) Data concept names .....</b>   | <b>60</b> |
| <b>Annex E (informative) Data representation in an information model .....</b>  | <b>66</b> |
| <b>Annex F (informative) ASN.1 information object specification for an ITS/TICS data concept .....</b>  | <b>75</b> |
| <b>Bibliography .....</b>   | <b>91</b> |