

DIN EN ISO 12813:2016-04 (E)

Electronic fee collection - Compliance check communication for autonomous systems (ISO 12813:2015); English version EN ISO 12813:2015

| Contents | | Page |
|---------------------|---|-----------|
| Foreword | | v |
| Introduction | | vi |
| 1 | Scope | 1 |
| 2 | Normative references | 2 |
| 3 | Terms and definitions | 3 |
| 4 | Abbreviated terms | 4 |
| 5 | Application interface architecture | 5 |
| 5.1 | General | 5 |
| 5.2 | Services provided | 5 |
| 5.3 | Attributes | 5 |
| 5.4 | Toll context | 6 |
| 5.5 | Use of lower layers | 6 |
| 5.5.1 | Supported DSRC communication stacks | 6 |
| 5.5.2 | Use of the CEN-DSRC stack | 6 |
| 6 | Functions | 7 |
| 6.1 | Functions in detail | 7 |
| 6.1.1 | General | 7 |
| 6.1.2 | Initialise communication | 7 |
| 6.1.3 | Data retrieval | 7 |
| 6.1.4 | Authenticated data retrieval | 7 |
| 6.1.5 | Driver notification | 8 |
| 6.1.6 | Terminate communication | 8 |
| 6.1.7 | Test communication | 8 |
| 6.2 | Security | 8 |
| 6.2.1 | General | 8 |
| 6.2.2 | Authentication/non-repudiation | 8 |
| 6.2.3 | Access credentials | 9 |
| 7 | Attributes | 9 |
| 7.1 | General | 9 |
| 7.2 | Data regarding identification | 11 |
| 7.3 | Data regarding status | 11 |
| 7.4 | Data regarding vehicle | 13 |
| 8 | Transaction model | 15 |
| 8.1 | General | 15 |
| 8.2 | Initialisation phase | 15 |
| 8.2.1 | Initialisation request | 15 |
| 8.2.2 | CCC application-specific contents of BST | 15 |
| 8.2.3 | CCC application-specific contents of VST | 15 |
| 8.3 | Transaction phase | 15 |

| | |
|--|-----------|
| Annex A (normative) CCC data type specifications | 16 |
| Annex B (normative) PICS proforma for the attributes | 17 |
| Annex C (informative) ETSI/ES 200 674-1 communication stack usage for CCC applications | 26 |
| Annex D (informative) Using the IR DSRC communication stack (CALM IR) for CCC applications .. | 29 |
| Annex E (informative) Using the ARIB DSRC communication stack for CCC applications | 30 |
| Annex F (informative) Example CCC transaction | 32 |
| Annex G (informative) Security considerations | 34 |
| Annex H (informative) Use of this International Standard for the EETS | 39 |
| Bibliography | 41 |