

DIN EN ISO 12813:2020-03 (E)

Electronic fee collection - Compliance check communication for autonomous systems (ISO 12813:2019); English version EN ISO 12813:2019

Contents	Page
Foreword	v
Introduction	vii
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	6
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	7
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	8
6.1.4 Authenticated data retrieval	8
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	9
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	18
8 Transaction model	20
8.1 General	20
8.2 Initialisation phase	20
8.2.1 Initialisation request	20
8.2.2 CCC application-specific contents of BST	20
8.2.3 CCC application-specific contents of VST	21
8.3 Transaction phase	21
Annex A (normative) CCC data type specifications	22
Annex B (normative) PICS proforma	23
Annex C (informative) ETSI ES 200 674-1 communication stack usage for CCC applications	31
Annex D (informative) Using the IR DSRC communication stack (CALM IR) for CCC applications	34
Annex E (informative) Using the ARIB DSRC communication stack for CCC applications	35

Annex F (informative) Using the WAVE communication stack for CCC applications	37
Annex G (informative) Example CCC transaction	40
Annex H (informative) Security considerations	42
Annex I (informative) Use of this document for the EETS	47
Bibliography	49