

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