

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