

ISO/TS 14907-1:2015-09 (E)

Electronic fee collection - Test procedures for user and fixed equipment - Part 1: Description of test procedures

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	3
3	Terms and definitions	3
4	Abbreviated terms	6
5	Test parameters and test procedures for EFC	7
5.1	Tests overview	7
5.1.1	General	7
5.1.2	Functionality tests	7
5.1.3	Quality tests	8
5.1.4	Referenced pre-tests	8
5.2	Parameter overview	8
5.3	Test plan	15
5.4	Required documentation	15
6	Inspection and tests	16
6.1	Functionality tests	16
6.1.1	Communication	16
6.1.2	EFC application	16
6.1.3	Traffic conditions	21
6.1.4	Vehicle characteristics	22
6.1.5	Environmental influences	24
6.2	Quality tests	25
6.2.1	Quality management	25
6.2.2	Reliability and availability	26
6.3	Referenced pre-tests	26
6.3.1	DSRC	26
6.3.2	Environment	27
6.3.3	EMC	27
7	Evaluation and certification	27
7.1	Evaluation	27
7.2	Certification	27
Annex A (informative)	How to use this Technical Specification	29
Annex B (informative)	Traffic, vehicle, and other performance tests	31
Annex C (informative)	Reliability/availability tests	52
Annex D (informative)	Classes of equipment	58
Annex E (informative)	Examples for statistical calculations	60

Annex F (informative) Examples of referenced pre-tests based on European test procedures	64
Annex G (informative) Test methods and tools	69
Annex H (informative) Examples of EFC scenarios	77
Annex I (informative) Examples of referenced pre-tests based on Japanese test procedures	85
Bibliography	88