

ISO/TR 14806:2013-07 (E)

Intelligent transport systems - Public transport requirements for the use of payment applications for fare media

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Terms and definitions	1
3	Symbols and abbreviated terms	3
3.1	CNP	4
3.2	HHT	4
3.3	PAN	4
3.4	PT	4
3.5	PTO	4
3.6	TDA	4
3.7	TR	4
3.8	ZVT	4
4	Objectives and general requirements for the PTO	5
5	Use cases	5
5.1	Use case 1: Product purchase for loading on customer media	6
5.2	Use case 2: Access with PTO product data in payment application	6
5.3	Use case 3: Pay single journeys on validation	7
5.4	Use case 4: Pay after a period	8
5.5	Use case 5: Entitlement with payment application	9
6	Requirements for payment applications used in transport ticketing	10
6.1	Payment application storage options	10
6.2	Payment application without any public transport data	10
6.3	Payment application with payment transaction logs	10
6.4	Payment applications with transit data areas (TDAs)	12
6.5	Supported transaction types	14
7	Matching between use cases, validation access rules and payment application types	16
7.1	Revenue protection and inspection	18
8	Security of payment applications	18
9	Condition for use in a multi-application context	19
9.1	Using payment application in a multi-application media	19
9.2	PTO Participation in the life cycle management of payment applications	19
9.3	Payment application selection	19
10	Test and certification of payment applications	20
10.1	Ease of integration into front end equipment	20
10.2	RF protocol testing	20
10.3	(SE) payment application certification	20
10.4	Terminal payment application certification	21
10.5	Transaction time	22

11	Customer data privacy	22
	Annex A (informative) Business rules checklist for using payment applications	23
	Annex B (informative) Options for providing interoperability between PTOs B.1: Background	28
	Bibliography	30