

# ISO/TR 24014-3:2013-04 (E)

## Public transport - Interoperable fare management system - Part 3: Complementary concepts to Part 1 for multi-application media

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Symbols and abbreviated terms .....	4
5	General context and limitations .....	4
6	Media functional architecture .....	5
6.1	Multi-application .....	5
6.2	Functional model of the Media .....	5
6.3	Security Domain management .....	7
6.4	Composite Customer Media certification and validation .....	9
7	Public Transport requirements for multi-application Customer Media .....	10
7.1	Business requirements .....	10
7.2	General functional requirements .....	13
7.3	Secure Element's profile .....	13
7.4	Security .....	14
7.5	Uniqueness .....	14
8	Insertion of the IFM functional model in the multi-application context .....	18
8.1	General .....	18
8.2	Media environment .....	20
8.3	SE Community .....	20
8.4	Intermediary Roles .....	21
8.5	Impact on the roles in the IFM Community .....	22
8.6	Certification of SE and Application Templates .....	23
9	Use cases .....	23
9.1	General .....	23
9.2	Main sequence diagram .....	24
9.3	Table of the use cases .....	25
9.4	Certification of SE .....	26
9.5	Installation of Application template .....	26
9.6	Personalisation of pre-installed Application template .....	27
9.7	Update of Application Template .....	27
9.8	Termination of application .....	28
9.9	Termination of SE .....	28
9.10	Customer service management .....	28
10	Practices for implementing the use of multi-application .....	29
10.1	General .....	29
10.2	Implementation of Roles into Organisations .....	29
10.3	Legal ownership of the Media and SE .....	29

10.4	Implementation of the Role of SD manager .....	29
10.5	Implementation of the Portal function .....	30
10.6	The EU-IFM Project proposal .....	31
10.7	Mobile SUICA .....	32
10.8	France interoperability project .....	34
10.9	Case of Korea .....	35
10.10	Comparison with EPC-GSMA white paper .....	36
	<b>Bibliography .....</b>	<b>39</b>