

E DIN EN ISO 17573:2011-05 (E)

Erscheinungsdatum: 2011-07-25

Electronic fee collection - Systems architecture for vehicle-related tolling (ISO 17573:2010); English version FprEN ISO 17573:2011

Inhalt

Seite

Foreword	4
Introduction.....	5
1 Scope	7
2 Normative references.....	7
3 Terms and definitions	8
4 Symbols and abbreviated terms	11
4.1 Abbreviated terms	11
4.2 Symbols.....	11
5 The EFC community: roles and objectives.....	11
5.1 General	11
5.2 Toll charging environment	12
5.3 External objects.....	13
6 Roles in a toll charging environment	15
6.1 General	15
6.2 Role related to the provision of the toll service	16
6.3 Role related to the use of the toll service	16
6.4 Role related to the charging of the toll.....	17
6.5 Role related to the management of a toll charging environment.....	18
6.6 Decomposition of a toll charging environment.....	19
7 EFC system behaviour.....	26
7.1 General	26
7.2 Roles, responsibilities and actors	26
7.3 Interaction matrix and action diagrams	28
7.4 Resulting interaction between actors	41
8 Information schemata and basic information types	43
8.1 Static schema	43
8.2 Basic information objects	44
8.3 Dynamic schema	48
9 Interfaces and computational objects.....	48
9.1 General	48
9.2 Management object interfaces.....	49
9.3 Charging object interfaces	50
9.4 Basic Provision object interfaces	52
9.5 Maintaining the OBE object interfaces.....	54
9.6 Customizing the OBE object interfaces	54
9.7 Acting as a Contract Agent object interfaces	55
9.8 Providing EFC Context Data object interfaces.....	57
9.9 Providing toll declaration object interfaces.....	57
9.10 Collecting Usage Data object interfaces.....	58
9.11 Use object interfaces	60
10 Points of observation and viewpoint correspondences	61
10.1 Points of observation.....	61
10.2 Correspondence between enterprise and information viewpoints	61
10.3 Correspondence between enterprise and computational viewpoints	61
Annex A (informative) Short Open Distributed Processing (ODP) description.....	62

Annex B (informative) Comparison with ISO/TS 17573:2003	65
Annex C (informative) Relations between this International Standard and IFMSA	68
Annex D (informative) Relation with the European Electronic Toll Service	72
Annex E (informative) Example of the Japanese electronic toll system	75
Bibliography	78