

E DIN EN ISO 17573-1:2026-02 (E)

Erscheinungsdatum: 2026-01-09

**Electronic fee collection - System architecture for vehicle-related tolling - Part 1:
Reference model (ISO/DIS 17573-1:2026); English version prEN ISO 17573-1:2026**

Contents		Page
Foreword	v
Introduction	vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols and abbreviated terms	2
	4.1 Symbols.....	2
	4.2 Abbreviated terms.....	3
5	The EFC community: roles	4
	5.1 General.....	4
	5.2 Other ITS systems and services.....	5
	5.3 Sensors, vehicle system and common equipment.....	5
	5.4 Infrastructure sourced data.....	5
	5.5 Financial/Commercial systems.....	6
	5.6 Telecommunication systems.....	6
	5.7 Jurisdiction/Authorities.....	6
	5.8 Standardization bodies.....	6
	5.9 Common service rights provider.....	7
6	Roles internal to the EFC domain	7
	6.1 General.....	7
	6.2 EFC domain roles.....	7
	6.3 Interoperability manager.....	8
	6.3.1 Short description.....	8
	6.3.2 Responsibilities.....	9
	6.4 Toll service provider.....	9
	6.4.1 Short description.....	9
	6.4.2 Responsibilities.....	9
	6.5 User of the service.....	10
	6.5.1 Short description.....	10
	6.5.2 Responsibilities.....	10
	6.6 Toll charger role.....	11
	6.6.1 Short description.....	11
	6.6.2 Responsibilities.....	11
	6.7 EFC functional roles and responsibilities.....	12
7	Services	13
	7.1 Overview.....	13
	7.2 Sub-services involving toll charger, toll service provider and interoperability manager roles.....	14
	7.2.1 General.....	14
	7.2.2 Adding or deleting a new toll charger.....	14
	7.2.3 Adding or deleting a new toll service provider.....	16
	7.2.4 Adding or modifying a toll regime.....	17
	7.2.5 Defining rules.....	18
	7.2.6 Monitoring operations.....	19
	7.2.7 Handling disputes.....	20

7.3	Sub-services involving the toll service provider and user	22
7.3.1	General	22
7.3.2	Providing EFC contract.....	22
7.3.3	Providing customer care.....	24
7.3.4	User billing.....	26
7.4	Sub-services involving the toll charger and toll service provider.....	27
7.4.1	General	27
7.4.2	Collecting transit information in short-range communication systems.....	27
7.4.3	Collecting charging information (autonomous systems).....	29
7.4.4	Collecting transit information (image-based systems).....	30
7.4.5	Providing payment information.....	30
7.4.6	Detecting Exceptions.....	32
7.4.7	Trust objects exchange.....	33
7.4.8	Handling exceptions.....	34
7.4.9	Providing local information	35
Annex A (informative) Mapping EFC architecture to the C-ITS architecture		36
Annex B (informative) Information schemata and basic information types		39
Annex C (informative) Enterprise objects within roles.....		45
Bibliography.....		50