

ISO/TR 7872:2022-05 (E)

Intelligent transport systems - Mobility integration - Digital infrastructure service role and functional model for urban ITS service applications

Contents	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	1
5 General overview and framework	2
5.1 Objective	2
5.2 National variations	3
5.3 Mandatory, optional, and cooperative issues	3
5.4 Specification of service provision	3
5.5 Architecture options	3
6 Concept of operations	4
6.1 General	4
6.2 Statement of the goals and objectives of the system	4
6.3 Strategies, tactics, policies and constraints affecting the system	4
6.4 Organizations, activities and interactions among participants and stakeholders	4
6.5 Clear statement of responsibilities and authorities delegated	4
6.6 Operational processes for the system	4
6.6.1 Service requirements definition	4
6.7 Appointment of an approval authority (regulatory)	5
6.8 In-vehicle system	5
6.9 User	5
6.10 Application service	5
6.11 Big data management entity	6
6.11.1 Big data management	6
6.12 Data aggregator	6
6.13 Map service providers	6
6.14 Digital infrastructure service provider	6
7 Conceptual architecture framework	6
7.1 General	6
7.2 Actors	6
7.3 Role model and functional model of digital infrastructure servicer	7
7.4 Service definition	8
7.5 Role model architecture	9
7.5.1 General	9
7.5.2 Application service actors	9
7.5.3 Service provider(s)	9
8 Quality of service requirements	9
9 Test requirements	10

10	Marking, labelling and packaging	10
11	Declaration of patents and intellectual property	10
12	Definition of service domains utilizing digital infrastructure	10
12.1	General	10
12.2	Referenced target use cases	10
12.3	Infrastructure operation management	12
12.3.1	Traffic management	12
12.4	Road traffic management	13
12.5	Enforcement	14
12.6	The role of service providers	15
	Annex A (informative) Use case of digital infrastructure service	18
	Bibliography	19