

ISO 14296:2016-02 (E)

Intelligent transport systems - Extension of map database specifications for applications of cooperative ITS

Contents	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Conformance	1
4 Terms and definitions	1
5 Symbols and abbreviated terms	5
6 Requirements	5
6.1 Introduction	5
6.2 Application requirements	5
6.3 Functional requirements	5
6.3.1 Overview	5
6.3.2 Map Display	6
6.3.3 Positioning	7
6.3.4 Route Planning	8
6.3.5 Route Guidance	10
6.3.6 Service and POI Information Access	12
6.3.7 Address Location	13
6.3.8 Cooperative ITS support (including driving support)	13
6.3.9 Multi-Modal Travel Support	14
6.3.10 Update	15
6.3.11 System performance	15
7 Logical data model	16
7.1 Overall model	16
7.1.1 General	16
7.2 Transportation package	16
7.2.1 Overview	16
7.2.2 Road network package	18
7.2.3 Transfer zone network package	45
7.2.4 Public transportation network	46
7.2.5 Pedestrian path network	46
7.2.6 Bicycle path network	46
7.3 Cartographic package	47
7.3.1 Overview	47
7.3.2 Background package	47
7.3.3 Graphic text package	51
7.4 Service and POI package	52
7.4.1 General	52
7.5 Address Location package	53
7.5.1 General	53
7.6 Dynamic information package	55
7.7 Relationship of the road data between levels	56
7.7.1 General	56

7.7.2	Relation of the Intersection and Intersection Connecting Point between levels	56
7.7.3	Relation of the Road Elements between levels	57
7.7.4	Example for Road Element, Intersection Connecting Point and Intersection between levels	57
Annex A (normative) Abstract test suite		59
Annex B (informative) Description of UML expression elements		60
Annex C (normative) Basic set of applications definition		62
Annex D (informative) Overview of examples of targeted (Japanese examples) driving support services		63
Annex E (informative) Relationship between basic set of applications and driving support services (Japanese example)		80
Annex F (informative) Use case of Multi-Modal Travel Support service		81
Bibliography		88