

# ISO/TS 5206-1:2023-04 (E)

## Intelligent transport systems - Parking - Part 1: Core data model

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vi
1	Scope .....	1
2	Normative references .....	1
3	Terms, definitions and abbreviated terms .....	1
3.1	Terms and definitions .....	1
3.2	Abbreviated terms .....	2
4	Conformance .....	2
5	UML notation .....	2
6	Data model .....	3
6.1	Data model overview .....	3
6.2	Place data concepts .....	4
6.2.1	Place hierarchy .....	4
6.2.2	IdentifiedArea sub-types .....	12
6.2.3	Common components .....	16
6.2.4	Payment method .....	17
6.2.5	Basic elements (in place) .....	18
6.3	Occupancy .....	19
6.3.1	Introduction to occupancy .....	19
6.3.2	Supply .....	20
6.3.3	Demand .....	21
6.3.4	Enumerations (for occupancy) .....	21
6.3.5	External codelists (for occupancy) .....	22
6.4	Rates .....	22
6.4.1	Introduction to rates .....	22
6.4.2	Rate tables .....	22
6.4.3	Eligibility .....	24
6.4.4	Enumerations (for rates) .....	25
6.4.5	External codelists (for rates) .....	26
6.5	Right .....	26
6.5.1	Enumerations (for right) .....	37
6.5.2	External codelists (for right) .....	38
6.6	Session .....	38
6.6.1	General .....	38
6.6.2	Enumerations (for session) .....	40
6.6.3	External codelists (for session) .....	40
6.7	Observation .....	40
6.7.1	Enumerations (for observation) .....	42
6.7.2	External codelists (for observation) .....	42
6.8	Quote .....	42
6.8.1	Introduction to quote .....	42
6.8.2	QuoteRightRequest -- Request for a new transaction .....	43
6.8.3	QuoteRightResponse -- Response to a QuoteRightRequest for a new transaction .....	44
6.8.4	QuoteSessionExtensionRequest -- Request for an extension of an existing session .....	45

6.8.5	QuoteSessionExtensionResponse -- Response to a QuoteSessionExtensionRequest for an extension of an existing session .....	46
6.8.6	Enumerations (for quote) .....	48
6.8.7	External codelists (for quote) .....	48
6.9	Common elements .....	48
6.9.1	Introduction to common elements .....	48
6.9.2	Data types (general) .....	50
6.9.3	Enumerations (general) .....	50
6.9.4	Common classes .....	51
6.9.5	External codelists .....	52
6.9.6	Organisation, contacts and address .....	53
6.9.7	Describing Locations .....	56
6.9.8	Data types (for location) .....	64
6.9.9	Enumerations (for location) .....	64
6.9.10	External codelists (for location) .....	66
6.9.11	Times .....	66
6.10	Facilities .....	69
6.10.1	Overview .....	69
6.10.2	Data types (for facilities) .....	70
6.10.3	Enumerations (for facilities) .....	70
6.10.4	External codelists (for facilities) .....	70
6.11	Energy infrastructure .....	71
6.11.1	Overview .....	71
6.11.2	Data types (for energy infrastructure) .....	72
6.11.3	Enumerations (for energy infrastructure) .....	73
6.11.4	External codelists (for energy infrastructure) .....	74
	Annex A (normative) Data dictionary .....	75
	Annex B (informative) Relationship to CEN 16157 "DATEX II" Data Modelling Concept and Framework .....	196
	Annex C (informative) Use case examples .....	197
	Annex D (informative) Example user-defined codelists .....	246
	Bibliography .....	247