

DIN CEN/TS 16157-12:2022-10 (E)

Intelligent transport systems - DATEX II data exchange specifications for traffic management and information - Part 12: Facility related publications; English version
CEN/TS 16157-12:2022

Contents	Page
European foreword	5
Introduction	6
1 Scope.....	7
2 Normative references.....	8
3 Terms and definitions.....	8
4 Symbols and abbreviations	8
5 Conformance.....	8
6 UML notation	9
7 «D2Namespace» Facilities	9
7.1 Overview	9
7.2 «D2Package» Facilities	9
7.2.1 Overview	9
7.2.2 Semantics.....	12
7.3 «D2Package» Dimension.....	12
7.3.1 Overview	12
7.3.2 Semantics.....	13
7.4 «D2Package» OrganisationPublication	13
7.4.1 Overview	13
7.4.2 Semantics.....	15
7.5 «D2Package» RatesPublication	16
7.5.1 Overview	16
7.5.2 Semantics.....	19
7.6 «D2Package» SupplementalFacility.....	21
7.6.1 Overview	21
7.6.2 Semantics.....	22
7.7 «D2Package» OperatingHoursPublication	25
7.7.1 Overview	25
7.7.2 Semantics.....	26
7.8 Data types	27
7.9 Duration value	28
8 LocationExtension and EmissionsExtension in «D2Namespace» Extension.....	28
8.1 FacilityLocation (Address)	28
8.2 EmissionsExtension	29
Annex A (normative) Data Dictionary for «D2Namespace» Facilities	30
A.1 Overview	30
A.2 Data Dictionary for "Facilities"	31
A.2.1 "DataValue" package.....	31
A.2.2 "Dimension" package	32
A.2.3 "Eligibility" package.....	33
A.2.4 "Facility" package	36
A.2.5 "OperatingHoursPublication" package	40
A.2.6 "OrganisationPublication" package.....	45

A.2.7	"PaymentMethod" package	51
A.2.8	"Rates" package	53
A.2.9	"Right" package	64
A.2.10	"SupplementalFacility" package	67
A.3	Data Dictionary of $\leq\leq$ D2Datatype $\geq\geq$ for "Facilities"	71
A.3.1	Introduction.....	71
A.3.2	The $\leq\leq$ D2Datatype $\geq\geq$ "AmountOfMoney".....	71
A.3.3	The $\leq\leq$ D2Datatype $\geq\geq$ "CurrencyCode"	71
A.3.4	The $\leq\leq$ D2Datatype $\geq\geq$ "Duration"	71
A.3.5	The $\leq\leq$ D2Datatype $\geq\geq$ "IndexReference"	71
A.3.6	The $\leq\leq$ D2Datatype $\geq\geq$ "SquareMetres".....	71
A.3.7	The $\leq\leq$ D2Datatype $\geq\geq$ "TimeZone"	71
A.4	Data Dictionary of $\leq\leq$ D2Enumeration $\geq\geq$ for "Facilities".....	71
A.4.1	Introduction.....	71
A.4.2	The $\leq\leq$ D2Enumeration $\geq\geq$ "AccessibilityEnum".....	71
A.4.3	The $\leq\leq$ D2Enumeration $\geq\geq$ "AvailabilityEnum".....	72
A.4.4	The $\leq\leq$ D2Enumeration $\geq\geq$ "CredentialTypeEnum"	72
A.4.5	The $\leq\leq$ D2Enumeration $\geq\geq$ "EnergySourceEnum"	73
A.4.6	The $\leq\leq$ D2Enumeration $\geq\geq$ "EquipmentTypeEnum".....	74
A.4.7	The $\leq\leq$ D2Enumeration $\geq\geq$ "FacilityTypeEnum"	76
A.4.8	The $\leq\leq$ D2Enumeration $\geq\geq$ "ImageFormatEnum".....	77
A.4.9	The $\leq\leq$ D2Enumeration $\geq\geq$ "MeansOfPaymentEnum".....	77
A.4.10	The $\leq\leq$ D2Enumeration $\geq\geq$ "OpeningStatusEnum"	78
A.4.11	The $\leq\leq$ D2Enumeration $\geq\geq$ "OperationStatusEnum"	79
A.4.12	The $\leq\leq$ D2Enumeration $\geq\geq$ "OrganisationTypeEnum"	79
A.4.13	The $\leq\leq$ D2Enumeration $\geq\geq$ "PaymentBrandsEnum".....	79
A.4.14	The $\leq\leq$ D2Enumeration $\geq\geq$ "PaymentTimingEnum".....	80
A.4.15	The $\leq\leq$ D2Enumeration $\geq\geq$ "RateAvailabilityTypeEnum"	80
A.4.16	The $\leq\leq$ D2Enumeration $\geq\geq$ "RateLineTypeEnum"	81
A.4.17	The $\leq\leq$ D2Enumeration $\geq\geq$ "RateTypeEnum".....	81
A.4.18	The $\leq\leq$ D2Enumeration $\geq\geq$ "RateUsageConditionsTypeEnum"	81
A.4.19	The $\leq\leq$ D2Enumeration $\geq\geq$ "RefundTypeEnum"	81
A.4.20	The $\leq\leq$ D2Enumeration $\geq\geq$ "ReservationTypeEnum"	82
A.4.21	The $\leq\leq$ D2Enumeration $\geq\geq$ "RightTypeEnum"	82
A.4.22	The $\leq\leq$ D2Enumeration $\geq\geq$ "ServiceFacilityTypeEnum"	83
A.4.23	The $\leq\leq$ D2Enumeration $\geq\geq$ "SurchargeTypeEnum"	84
A.4.24	The $\leq\leq$ D2Enumeration $\geq\geq$ "UserTypeEnum"	84
Annex B (normative)	Data Dictionary for $\langle\langle$ D2Namespace $\rangle\rangle$ Extension	86
B.1	Overview	86
B.2	Data Dictionary for "Extension"	87
B.2.1	"CommonExtension" package	87
B.2.2	"LocationExtension" package.....	88
B.3	Data Dictionary of $\leq\leq$ D2Datatype $\geq\geq$ for "Extension"	91
B.3.1	Introduction.....	91
B.3.2	The $\leq\leq$ D2Datatype $\geq\geq$ "TimeZone"	91
B.4	Data Dictionary of $\leq\leq$ D2Enumeration $\geq\geq$ for "Extension".....	91
B.4.1	Introduction.....	91
B.4.2	The $\leq\leq$ D2Enumeration $\geq\geq$ "AddressLineTypeEnum".....	91
Annex C (normative)	Referenced XML Schema	92
C.1	Overview	92
C.2	Schema for $\langle\langle$ D2Namespace $\rangle\rangle$ Facilities.....	92
C.3	Schema for $\langle\langle$ D2Namespace $\rangle\rangle$ CommonExtension	149
C.4	Schema for $\langle\langle$ D2Namespace $\rangle\rangle$ LocationExtension.....	149
Annex D (informative)	Differences from prISO 5206-1	152
D.1	Differences from prISO 5206-1.....	152
Bibliography	154