ISO 17573-3:2024-12 (E)

Electronic fee collection - System architecture for vehicle-related tolling - Part 3: Data dictionary

Contents

Page

Foreword ..... **vi**

Introduction ..... **vii**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **2**

4 Abbreviated terms **5**

5 EFC common data object definitions **6**

5.1 General 6

5.2 Subtypes of simple data types 6

5.2.1 AccountStatus 6

5.2.2 ActualNumberOfPassengers 6

5.2.3 AlphabetIndicator 7

5.2.4 Altitude 8

5.2.5 Axles 9

5.2.6 CabType 9

5.2.7 ChassisType 9

5.2.8 Co2EmissionClass 9

5.2.9 Co2EmissionValue 10

5.2.10 Co2EmissionValueLoad 10

5.2.11 Co2Scheme 11

5.2.12 ContractAuthenticator 11

5.2.13 ContractSerialNumber 11

5.2.14 CopValue 11

5.2.15 CountryCode 12

5.2.16 DetectionMode 12

5.2.17 DistanceUnit 13

5.2.18 DriverClass 13

5.2.19 EmissionUnit 13

5.2.20 EngineCapacity 14

5.2.21 EngineCharacteristics 14

5.2.22 EnginePower 16

5.2.23 EquipmentIccId 16

5.2.24 EquipmentObuId 16

5.2.25 EquipmentStatus 16

5.2.26 EuroValue 17

5.2.27 EuroValueSubClass 17

5.2.28 IssuerIdentifier 18

5.2.29 Latitude 18

5.2.30 LocalVehicleClassId 18

5.2.31 LocationClassId 18

5.2.32 Longitude 18

5.2.33 Month 19

5.2.34 PaymentSecurityData 19

5.2.35 PayUnit 19

5.2.36 PersonalAccountNumber 20

5.2.37 RearWheelsSteeringType 20

5.2.38 ReceiptAuthenticator 21

5.2.39 ReceiptDistance 21
5.2.40 ResultFin 21
5.2.41 ReceiptIccId 22
5.2.42 ReceiptObuId 22
5.2.43 ResultOp 22
5.2.44 ReceiptServiceSerialNumber 24
5.2.45 ReceiptText 24
5.2.46 StationType 24
5.2.47 SuspensionType 25
5.2.48 TariffClassId 25
5.2.49 Time 25
5.2.50 TimeClassId 26
5.2.51 TimeUnit 26
5.2.52 TrailerType 26
5.2.53 TripPurpose 26
5.2.54 TyreConfiguration 27
5.2.55 UserClassId 27
5.2.56 VehicleAuthenticator 28
5.2.57 VehicleClass 28
5.2.58 VehicleCurrentMaxTrainWeight 28
5.2.59 VehicleFirstAxleHeight 28
5.2.60 VehicleHeightOverall 28
5.2.61 VehicleLengthOverall 29
5.2.62 VehicleMassInRunningOrder 29
5.2.63 VehicleMaxLadenWeight 29
5.2.64 VehicleOperationalRange 29
5.2.65 VehicleTechnicalPermissibleMaxLadenMass 30
5.2.66 VehicleTotalDistance 30
5.2.67 VehicleTrainMaximumWeight 30
5.2.68 VehicleUsageCategoryType 30
5.2.69 VehicleWeightLaden 31
5.2.70 VehicleWeightUnladen 32
5.2.71 VehicleWidthOverall 32
5.2.72 WeekDay 32
5.3 Single level data types 33
5.3.1 AbsolutePosition2d 33
5.3.2 AbsolutePosition3d 33
5.3.3 AxleWeightLimit 33
5.3.4 AxleWeightLimits 33
5.3.5 DateCompact 35
5.3.6 DieselEmissionValues 35
5.3.7 DriverCharacteristics 35
5.3.8 Distance 35
5.3.9 Duration 35
5.3.10 EngineDetails, ... 36
5.3.11 EuVehicleGroup 36
5.3.12 ExhaustEmissionValues 36
5.3.13 FutureCharacteristics 37
5.3.14 NumberOfAxles 37
5.3.15 ObeId 37
5.3.16 Particulate 37
5.3.17 PassengerCapacity 38
5.3.18 PaymentFee 38
5.3.19 Period 38
5.3.20 Provider 38
5.3.21 RelativePosition3d 39
5.3.22 SessionClass 39
5.3.23 SessionLocation 39
5.3.24 SignedValue 40
5.3.25 SoundLevel 40
5.3.26 TariffClassDescription 40
5.3.27 TimeCompact 40

5.3.28 TrailerDetails 41
5.3.29 WheelsConfiguration 41
5.4 Two-level data types 41
5.4.1 AxlesWeightLimits 41
5.4.2 ChargeObjectId 42
5.4.3 ContractValidity 42
5.4.4 DateAndTime 42
5.4.5 EnvironmentalCharacteristics 42
5.4.6 InitialVehicleRegistrationDate 43
5.4.7 Lpn 43
5.4.8 PaymentMeans 43
5.4.9 PaymentMeansBalance 43
5.4.10 PurseBalance 44
5.4.11 TrailerCharacteristics 44
5.4.12 ValidityOfContract 44
5.4.13 VehicleAxlesNumber 45
5.4.14 VehicleDimensions 45
5.4.15 VehicleIdentificationNumber 45
5.4.16 VehicleWeightLimits 45
5.5 Three-level data types 46
5.5.1 EfcContextMark 46
5.5.2 ReceiptContract 46
5.5.3 ReceiptData 46
5.5.4 ReceiptFinancialPart 47
5.5.5 ReceiptServicePart 48
5.5.6 VehicleAxles 48
5.5.7 VehicleSpecificCharacteristics 49
5.6 Complex data types 49
5.6.1 General 49
5.6.2 AggregatedSingleTariffClassSession 49
5.6.3 DetectedChargeObject 50
5.6.4 UserId 51
5.6.5 VehicleDescription 51
Annex A (normative) **EFC common data type definitions** **53**
Bibliography **54**