ISO 17573-3:2023-08 (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 Termsanddefinitions 2

4 Abbreviated terms 4

5 EFCcommondataobjectdefinitions 5
5.1 General 5
5.2 Subtypes of simple data types 6
5.2.1 AccountStatus 6
5.2.2 ActualNumberOfPassengers 6
5.2.3 Altitude 6
5.2.4 Axles 7
5.2.5 CabType 7
5.2.6 ChassisType 7
5.2.7 Co2EmissionClass 8
5.2.8 Co2EmissionValue 9
5.2.9 Co2EmissionValueLoad 9
5.2.10 Co2Scheme 9
5.2.11 ContractAuthenticator 9
5.2.12 ContractSerialNumber 9
5.2.13 CopValue 10
5.2.14 CountryCode 10
5.2.15 DetectionMode 10
5.2.16 EmissionUnit 11
5.2.17 EngineCharacteristics 11
5.2.18 EquipmentIccId 13
5.2.19 EquipmentObuId 13
5.2.20 EquipmentStatus 14
5.2.21 EuroValue 14
5.2.22 DistanceUnit 14
5.2.23 IssuerIdentifier 15
5.2.24 Latitude 15
5.2.25 LocalVehicleClassId 15
5.2.26 LocationClassId 15
5.2.27 Longitude 16
5.2.28 PaymentSecurityData 16
5.2.29 PayUnit 16
5.2.30 PersonalAccountNumber 17
5.2.31 RearWheelsSteeringType 17
5.2.32 ReceiptAuthenticator 18
5.2.33 ReceiptDistance 18
5.2.34 ResultFin 18
5.2.35 ReceiptIccId 19
5.2.36 ReceiptObuId 19

5.2.37 ResultOp 19
5.2.38 ReceiptServiceSerialNumber 21
5.2.39 ReceiptText 21
5.2.40 StationType 21
5.2.41 SuspensionType 21
5.2.42 TariffClassId 22
5.2.43 Time 22
5.2.44 TimeClassId 22
5.2.45 TimeUnit 22
5.2.46 TrailerType 23
5.2.47 TyreConfiguration 23
5.2.48 UserClassId 23
5.2.49 VehicleAuthenticator 24
5.2.50 VehicleClass 24
5.2.51 VehicleCurrentMaxTrainWeight 24
5.2.52 VehicleTechnicalPermissibleMaxLadenMass 24
5.2.53 VehicleTotalDistance 25
5.2.54 VehicleUsageCategoryType 25
5.2.55 VehicleWeightLaden 26
5.2.56 WeekDay 26
5.3 Single level data types 26
5.3.1 AbsolutePosition2d 26
5.3.2 AbsolutePosition3d 27
5.3.3 AxleWeightLimit 27
5.3.4 AxleWeightLimits 27
5.3.5 DateCompact 28
5.3.6 DieselEmissionValues 28
5.3.7 DriverCharacteristics 28
5.3.8 Distance 28
5.3.9 Duration 29
5.3.10 EngineDetails 29
5.3.11 EuVehicleGroup 29
5.3.12 ExhaustEmissionValues 29
5.3.13 FutureCharacteristics 30
5.3.14 NumberOfAxles 30
5.3.15 ObeId 31
5.3.16 Particulate 31
5.3.17 PassengerCapacity 31
5.3.18 PaymentFee 31
5.3.19 Period 32
5.3.20 Provider 32
5.3.21 RelativePosition3d 32
5.3.22 SessionClass 32
5.3.23 SessionLocation 33
5.3.24 SignedValue 33
5.3.25 SoundLevel 33
5.3.26 TariffClassDescription 33
5.3.27 TimeCompact 34
5.3.28 TrailerDetails 34
5.3.29 WheelsConfiguration 34
5.4 Two-level data types 35
5.4.1 AxlesWeightLimits 35
5.4.2 ChargeObjectId 35
5.4.3 ContractValidity 35
5.4.4 DateAndTime 36
5.4.5 EnvironmentalCharacteristics 36
5.4.6 InitialVehicleRegistrationDate 36
5.4.7 Lpn 36
5.4.8 PaymentMeans 37
5.4.9 PaymentMeansBalance 38
5.4.10 Point 38

5.4.11 PurseBalance 38
5.4.12 TrailerCharacteristics 38
5.4.13 ValidityOfContract 39
5.4.14 VehicleAxlesNumber 39
5.4.15 VehicleDimensions 39
5.4.16 VehicleIdentificationNumber 39
5.4.17 VehicleWeightLimits 40
5.5 Three-level data types 40
5.5.1 EfcContextMark 40
5.5.2 ReceiptContract 40
5.5.3 ReceiptData 41
5.5.4 ReceiptFinancialPart 42
5.5.5 ReceiptServicePart 42
5.5.6 UserId 43
5.5.7 VehicleAxles 43
5.5.8 VehicleSpecificCharacteristics 43
5.6 Complex data types 44
5.6.1 AggregatedSingleTariffClassSession 44
5.6.2 DetectedChargeObject 45
5.6.3 VehicleDescription 46

Annex A (normative)EFCcommondatatypedefinitions 47

Bibliography 48