



European Access Point for Truck Parking Data

Guidance Document for Member States on technical implementation of Delegated Regulation 885/2013 in relation to the European Access Point for Truck Parking Data

Annex I:

DATEX II minimum profile for EU core components for static data related to Secured Truck Parking Areas

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1 Scope of this document

This document describes the elements of the DATEX II profile defined by the European Commission for EU core components for static data related to safe and secure truck parking areas in accordance to delegated regulation 885/2013. This document is a supporting document that describes the elements **of the minimum content of DATEX II profiles** as a result of the setup process of the European Access Point for Truck Parking data implemented by the EC.

This document therefore describes the attributes **that are considered necessary to be included in any DATEX II profile** when providing data to fulfil the requirements described in Article 4 of delegated regulation 885/2013. This version of the document is accompanied by the DATEX II Selection File as well as the respective DATEX II Profile .XSD file:

- DATEXIISchema_2_2_3.xsd
- minimumEuProfile.sel

Please note that this DATEX II profile shall under no circumstance be considered as “the one and only profile that should be used in Europe” – its focus is to describe **the minimum contents** to fulfil delegated regulation 885/2013. The aim of the provided DATEX II minimum profile (.XSD, .SEL files and this additional descriptive document) is therefore to describe what attributes from a technical DATEX II point of view are considered mandatory to be included and filled as the absolute minimum to fulfil delegated regulation 885/2013 – this does however not imply that **ONLY** the minimum shall and can be provided using DATEX II.

The defined DATEX II profile and selection file can therefore be used as the basis to define the individual DATEX II profiles for the operative exchange of truck parking related data while taking the larger full set of attributes into account that is available from the respective DATEX II standards. This is the case since all attributes described in this document are a **subset** of the DATEX II specifications made available by the DATEX II community - the current version applying to this document and supplied DATEX II profile and the European Access Point is:

CEN/TC 278 -

prCEN/TS 16157-6:2014

Intelligent transport systems — DATEX II data exchange specifications for traffic management and information — Part 6: Parking publications

This document is in draft status and has been submitted to standardisation – it can be found on the DATEX II homepage (<http://www.datex2.eu/>) – User Login needs to be requested by DATEX II website hosts. The DATEX II truck parking profile and its accompanying document Annex B (p.59) can be found at <http://www.datex2.eu/content/datex-ii-parking-submitted-standardisation>

Further please note that

- The list in this document does not contain formal DATEX attributes without content-relevance (even though some of them are mandatory)
- Note that enumerations are not denoted in this document

2 Identification Information

Additional **guidance** to the

delegated regulation 885/13 - Article 4

Point 1 "Static data related to the parking areas, including (where applicable)"

- Identification information of parking area (name and address of the truck parking area (limited to 200 characters))

2.1 Parking name

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|----------------|---------------|--------------|---|--------------|--------------------|
| parkingName | ParkingRecord | Parking name | Name of the parking, i.e. name of the parking site or the group of parking sites. | 1..1 | MultilingualString |

2.2 Parking address

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|---------------------------|----------------|------------------------------|--|--------------|--------------------|
| parkingSiteAddress | ParkingSite | Parking site address | Address of the parking site. | 1..1 | Contact |
| contactDetailsAddress | ContactDetails | Contact details address | Complete address of the contact. Alternatively use the separate fields to describe the address. | 0..1 | MultilingualString |
| contactDetailsCity | ContactDetails | Contact details city | City of the contact. | 0..1 | MultilingualString |
| contactDetailsEMail | ContactDetails | Contact details e mail | E-Mail address of the contact. | 0..1 | String |
| contactDetailsHouseNumber | ContactDetails | Contact details house number | House number of the contact. | 0..1 | String |

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| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|------------------------|----------------|--------------------------|--|--------------|-------------|
| contactDetailsPostcode | ContactDetails | Contact details postcode | Postcode of the contact. | 0..1 | String |
| contactDetailsStreet | ContactDetails | Contact details street | Street of the contact. | 0..1 | String |
| country | ContactDetails | Country | ISO 3166-1 two character country code. | 0..1 | CountryEnum |
| contactNotDefined | Contact | Contact not defined | When true, there is currently no contact defined for the selected role and/or timeframe. Don't use the specialisations in this case. | 0..1 | Boolean |
| contactUnknown | Contact | Contact unknown | When true, the contact for the selected role and/or timeframe is unknown. Don't use the specialisations in this case. | 0..1 | Boolean |

2.3 Additional datex2 attributes

2.3.1 Usage Scenario

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|----------------------|-------------|------------------------|---|--------------|--------------------------|
| parkingUsageScenario | ParkingSite | Parking usage scenario | Truck Parking site shall be determined by the use of the "ParkingUsageScenario" class with "parkingUsageScenario" = "truckParking". | 1..* | ParkingUsageScenarioEnum |

2.3.2 Parking Site Type

A record containing static details of a parking site must be specialised as an 'Urban-' or 'InterUrbanParkingSite' or a 'SpecialLocationParkingSite'.

Depending on the type of parking site selected, one of the 3 attributes bellow becomes mandatory:

| | | | | | |
|-----------------------------------|--------------------------------|----------------------------------|---|--|---------------------------------------|
| interUrbanParkingSite Location | InterUrbanParkingSite | Parking site | A record containing static details of a parking site must be specialised as an 'Urban-' or 'InterUrbanParkingSite' or a 'SpecialLocationParkingSite'. | 1..1 Mandatory for parking site of type 'InterUrbanP arkingSite' | InterUrbanParkingSit eLocationEnum |
| urbanParkingSiteType | UrbanParkingSite | Urban parking site type | The type of urban parking site. | 1..1 Mandatory for parking site of type ' UrbanParkin gSite ' | UrbanParkingSiteTyp eEnum |
| parkingSpecialLocatio n | SpecialLocationParkin gSite | Special location parking site | A parking site which is located at a special location, often associated with some building. | 1..1 Mandatory for parking site of type ' SpecialLocati onParkingSit e ' | ParkingSpecialLocatio nEnum |

3 Location information of entry point

Additional **guidance** to the delegated regulation 885/13 - Article 4
 Point 1 "Static data related to the parking areas, including (where applicable)"

- Location information of the entry point in the parking area (latitude/longitude) (20 + 20 characters)

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|--------------------|---------------|---------------------|--|--------------|--------------------|
| parkingLocation | ParkingRecord | Parking location | The location of the parking site. Duplicates the location point of the main parking entrance (Parking Access). This element cannot be removed from the profile and become mandatory by designed. This location shall be of type "Point" and shall comprise the "PointByCoordinates" structure | 1..1 | Point |
| location | ParkingAccess | Location | The specification of a location on a network. This location shall be of type "Point" and shall comprise the "PointByCoordinates" structure. | 0..1 | Point |
| accessCategory | ParkingAccess | Access category | Specifies the category(s) of this access. This category should be used to define the access as an entry point (vehicle entrance) | 1..* | AccessCategoryEnum |
| pointByCoordinates | Point | Point by coordinate | A single point defined only by a coordinate set | 1..1 | PointByCoordinates |

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| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|------------------|--------------------|------------------|---|--------------|------------------|
| pointCoordinates | PointByCoordinates | Point coordinate | A pair of coordinates defining the geodetic position of a single point using the European Terrestrial Reference System 1989 (ETRS89). | 1..1 | PointCoordinates |
| latitude | PointCoordinates | latitude | Latitude in decimal degrees using the European Terrestrial Reference System 1989 (ETRS89). | 1..1 | Float |
| Longitude | PointCoordinates | longitude | Longitude in decimal degrees using the European Terrestrial Reference System 1989 (ETRS89). | 1..1 | Float |

4 Primary road identifier / direction

Additional **guidance** to the

delegated regulation 885/13 - Article 4

Point 1 "Static data related to the parking areas, including (where applicable)"

- Primary road identifier1/direction (20 characters/20 characters), and Primary road identifier2/direction (20 characters/20 characters) if same parking accessible from two different roads

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|-----------------|---------------|------------------|---|--------------|--------------------|
| parkingAccess | ParkingSite | Parking access | Describes one entrance or exit (or both) to a parking site. For a parking site, at least one entrance shall be defined. | 1..1 | ParkingAccess |
| Primary road | ParkingAccess | Primary road | Identification for up to two primary roads located nearby the access or which make the parking accessible. | 1..2 | Road |
| roadDestination | Road | Road destination | Name of some city, area, compass direction or other identification the road is leading to (to determine the direction in question). | 1..1 | MultilingualString |
| roadIdentifier | Road | Road identifier | Identifier/number of the road. | 1..1 | MultilingualString |
| nameOfRoad | Road | Road identifier | Identifier/number of the road. | 0..1 | MultilingualString |

5 Exit

Additional **guidance** to the delegated regulation 885/13 - Article 4
 Point 1 "Static data related to the parking areas, including (where applicable)"

- If needed, the indication of the Exit to be taken (limited to 100 characters)/Distance from primary road (integer 3) km or miles

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|--------------------|------------|-----------------------|---|---|----------------------------|
| distanceToThisRoad | Road | Distance to this road | Distance to the road in metres (from the calling component/object). | 0..1 | MetresAsNonNegativeInteger |
| junctionName | RoadNode | Junction name | Name of the junction. The "Road" class mentioned above may be specialised as a "RoadNode" which supports a "junctionName" [MultilingualString]. The motorway and the distance between the parking site and the junction (exit to be taken) can be specified as described this way. | 1..1 (not mandatory if the class used to defined the road is of Road and not RoadNode) | MultilingualString |

6 Total number of parking places for trucks

Additional **guidance** to the delegated regulation 885/13 - Article 4
 Point 1 "Static data related to the parking areas, including (where applicable)"
 - Total number of free parking places for trucks (integer 3)

6.1 Total number of parking places for trucks

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|-----------------------|---------------|--------------------------|--------------------------------|--------------|--------------------|
| parkingNumberOfSpaces | ParkingRecord | Parking number of spaces | Total Number of parking spaces | 1..1 | NonNegativeInteger |

6.2 Additional datex2 attributes

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|----------------------------|------------------------|------------------------------|---|--------------|------------------------|
| onlyAssignedParking | ParkingRecord | Only assigned parking | In order to define the assignment type of the total number of parking spaces for trucks (parkingNumberOfSpaces), one of the roles "assignedParkingAmongOthers" of "onlyAssignedParking" shall be used with "VehicleCharacteristics" "vehicleType" = "lorry" | 0..1 | ParkingAssignment |
| assignedParkingAmongOthers | ParkingRecord | Assigned parking among other | In order to define the assignment type of the total number of parking spaces for trucks (parkingNumberOfSpaces), one of the roles "assignedParkingAmongOthers" of "onlyAssignedParking" shall be used with "VehicleCharacteristics" "vehicleType" = "lorry" | 0..1 | ParkingAssignment |
| vehicleCharacteristics | ParkingAssignment | Vehicle characteristics | The characteristics of a vehicle, e.g. lorry | 1..1 | VehicleCharacteristics |
| vehicleType | VehicleCharacteristics | Vehicle type | Vehicle type. | 0..* | VehicleTypeEnum |

7 Price and currency of parking places

Additional **guidance** to the delegated regulation 885/13 - Article 4
 Point 1 "Static data related to the parking areas, including (where applicable)"
 - Price and currency of parking places (300 characters)□

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|-------------------|-------------------|---------------------|--|--------------|-------------------|
| tariffsAndPayment | ParkingRecord | Tariffs and payment | A table of charges under various conditions, primary used for parking. | 1..1 | TariffsAndPayment |
| freeOfCharge | TariffsAndPayment | Free of charge | No fee at all. In this case, no further elements of the tariffs structure are needed. If "freeOfCharge" = "false", at least one instance of the class "ChargeBand" shall be used. A possible practical solution would be to foresee that in exceptional cases URLs directing to websites with detailed pricing information will be accepted by the Commission in case the truck parking prices are of a dynamic nature. | 1..1 | Boolean |
| chargeBand | TariffsAndPayment | Charge band | A charge band in accordance with the specified conditions, possibly up to a maximum duration, during a specified period and for a vehicle of specified characteristics | 0..* | ChargeBand |

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| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|----------------|-------------------|------------------|--|--------------|--------------------|
| chargeBandName | ChargeBand | Charge band name | Name of the charge band Can be used to summarise the tariff conditions related to this charge band. (specified conditions, possibly up to a maximum duration, during a specified period and for a vehicle of specified characteristics) | 0..1 | MultilingualString |
| urlLinkAddress | TariffsAndPayment | Url link address | A Uniform Resource Locator (URL) address pointing to a resource available on the Internet from where further relevant information may be obtained. | 0..1 | Url |
| charge | Charge | Charge | Charge applicable for the related charge band. | 1..1 | AmountOfMoney |
| chargeCurrency | ChargeBand | Charge currency | A three-character code according to ISO 4217 for the currency in which the parking charge is specified (e.g. EUR, GBP, SEK, CZK). | 1..1 | CurrencyEnum |

8 Information on safety and equipment of the parking area

Additional **guidance** to the

delegated regulation 885/13 - Article 4

Point 2 "Information on safety and equipment of the parking area"

- Description of security, safety and service equipment of the parking including national classification if one is applied (500 characters)
- Number of parking places for refrigerated goods vehicles (numerical 4 digits)
- Information on specific equipment or services for specific goods vehicles and other (300 characters)

8.1 Equipment and services

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|-----------------------------------|-----------------------------------|---|---|--------------|------------------------------|
| ParkingEquipmentOrServiceFacility | ParkingRecord | Indexed list of Parking equipment or service facility | Either One type of equipment, that is available on the parking site or One type of service facility that is available on the parking site or located next to it | 0..* | Equipment or ServiceFacility |
| serviceFacilityType | ServiceFacility | Service facility type | One type of service, that is available on the parking site. | 1..1 | ServiceFacilityTypeEnum |
| equipmentType | Equipment | Equipment type | One type of equipment, that is available on the parking site. | 1..1 | EquipmentTypeEnum |
| otherEquipmentOrServiceFacility | ParkingEquipmentOrServiceFacility | Other equipment or service facility | Specifies the additional equipment or service facility, if the enumerations provided do not fit. Use literal 'other' in this case. | 0..1 | MultilingualString |
| additionalDescription | ParkingEquipmentOrServiceFacility | Additional description | Provides an additional description of a equipment or a service facility. | 0..1 | MultilingualString |

8.2 Number of parking places for refrigerated goods vehicles (or other specific goods vehicles)

8.2.1 Number of parking places per vehicle characteristic

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|-----------------------|--------------------|--------------------------|--|--------------|----------------------|
| groupOfParkingSpaces | ParkingRecord | Group of parking spaces | <p>Properties for a group of parking spaces. Usually, all properties specified have to be the same for all spaces included</p> <p>At least one group must be defined to specified the number of places for refrigerated goods vehicles</p> <p>At least one instance of “GroupOfParkingSpaces” shall be mandatory for a “ParkingSite”. This “GroupOfParkingSpaces” instance must use an instance of one of the roles “onlyAssignedParking” or “assignedParkingAmongOthers” (with target “ParkingSpaceBasics”) with “VehicleCharacteristicsExtended” – “loadType2” = “refrigeratedGoods” and using the attribute “parkingNumberOfSpaces” from class “GroupOfParkingSpaces”.</p> <p>NOTE: As a recommendation, the “parkingTypeOfGroup” may be set to “statisticsOnly”, especially, if the number of parking spaces for refrigerated good vehicles is zero.</p> | 1..* | GroupOfParkingSpaces |
| parkingNumberOfSpaces | ParkingSpaceBasics | Parking number of spaces | Total Number of parking spaces (attribute is used for a parking record as well as for a group of parking spaces). | 1..1 | NonNegativeInteger |

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|------------------------|--------------------------------|-------------------------|--|--------------|--------------------------------|
| vehicleCharacteristics | ParkingAssignment | Vehicle characteristics | | 1..1 | VehicleCharacteristicsExtended |
| vehicleType | VehicleCharacteristics | Vehicle type | Vehicle type. | 0..* | VehicleTypeEnum |
| vehicleType2 | VehicleCharacteristicsExtended | Vehicle type | Vehicle types currently not supported in 'VehicleTypeEnum' | 0..* | VehicleType2Enum |
| loadType | VehicleCharacteristics | Load type | Types of load carried by a vehicle. | 0..1 | LoadTypeEnum |
| loadType2 | VehicleCharacteristicsExtended | Load type2 | Loads currently not supported in 'LoadTypeEnum'. | 0..1 | LoadType2Enum |

8.2.2 Additional Datex2 attributes

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|----------------------------|----------------------|------------------------------|--|--------------|--------------------|
| parkingTypeOfGroup | GroupOfParkingSpaces | Parking type of group | Defines the type of this group specification. As a recommendation, the "parkingTypeOfGroup" may be set to "statisticsOnly", especially, if the number of parking spaces for refrigerated good vehicles is zero. | 1..1 | ParkingTypeOfGroup |
| onlyAssignedParking | groupOfParkingSpaces | Only assigned parking | Parking is only allowed for the assignment given in this class. | 0..1 | ParkingAssignment |
| assignedParkingAmongOthers | groupOfParkingSpaces | Assigned parking among other | The assignment given in this class is convenient for this access, but not exclusionary. | 0..1 | ParkingAssignment |

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|-------------------|----------------------|--------------------|--|--------------|-------------------|
| prohibitedParking | groupOfParkingSpaces | Prohibited parking | Parking is not allowed for the given assignment. | 0..1 | ParkingAssignment |

8.3 Description of security

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|---------------------------------------|-----------------------------|--|---|--------------|-----------------------------|
| parkingStandardsAndSecurity | ParkingSite | Parking standards and security | Security measures and standards or standard-like categorization for a parking site. | 1..1 | ParkingStandardsAndSecurity |
| parkingSecurity | ParkingStandardsAndSecurity | Parking security | Specifies security measures related to the parking site or particular spaces. | 1..* | ParkingSecurityEnum |
| parkingSupervision | ParkingStandardsAndSecurity | Parking supervision | Defines the kind of supervision of the parking site. | 0..* | ParkingSupervisionEnum |
| certifiedSecureParking | ParkingStandardsAndSecurity | Certified secure parking | Presence of a certification for secure parking. | 0..1 | Boolean |
| parkingSecurityNationalClassification | ParkingStandardsAndSecurity | Parking security national classification | A national classification of the parking security. | 0..1 | MultilingualString |
| dateOfCertification | ParkingStandardsAndSecurity | Date of certification | Date of certification. | 0..1 | Date |
| parkingAdditionalSecurity | ParkingStandardsAndSecurity | Parking additional security | Security equipment of the parking site that is not covered by the enumeration 'ParkingSecurityEnum'. | 0..* | MultilingualString |
| labelSecurityLevel | ParkingStandardsAndSecurity | Label security level | Formal assessment for the security level defined by the LABEL project http://truckparkinglabel.eu . | 0..1 | LABELSecurityLevelEnum |

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|-------------------|-----------------------------|---------------------|--|--------------|-----------------------|
| labelServiceLevel | ParkingStandardsAndSecurity | Label service level | Formal assessment for the service level defined by the LABEL project http://truckparkinglabel.eu . | 0..1 | LABELServiceLevelEnum |

9 Contact information of parking operator

Additional **guidance** to the delegated regulation 885/13 - Article 4 Point 2 "Information on safety and equipment of the parking area"

Contact information of the parking operator

- Name and surname (up to 100 characters)
- Telephone number (up to 20 characters)
- E-mail address (up to 50 characters)
- Consent of the operator to make his contact information public (Yes/No)

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|---------------------------|----------------|------------------------------|--|--------------|--------------------|
| Operator | ParkingRecord | Parking operator | Contact information about the parking operator | 1..1 | Contact |
| contactDetailsCity | ContactDetails | Contact details city | City of the contact. | 0..1 | MultilingualString |
| contactDetailsEMail | ContactDetails | Contact details e mail | E-Mail address of the contact. | 0..1 | String |
| contactDetailsHouseNumber | ContactDetails | Contact details house number | House number of the contact. | 0..1 | String |
| contactDetailsPostcode | ContactDetails | Contact details postcode | Postcode of the contact. | 0..1 | String |
| contactDetailsStreet | ContactDetails | Contact details street | Street of the contact. | 0..1 | String |

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| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|-------------------------------|----------------|----------------------------------|---|--------------------------------------|--------------------|
| contactDetailsTelephoneNumber | ContactDetails | Contact details telephone number | Telephone Number of contact. | 0..1 | String |
| contactOrganisationName | ContactDetails | Contact organisation name | Name of the organisation or service. Do not use this attribute in combination with role "parkingSiteAddress". | 0..1 | MultilingualString |
| contactPersonFirstName | ContactDetails | Contact person first name | First name of the contact person. | 0..1 | String |
| contactPersonName | ContactDetails | Contact person name | Name of the contact person. | 0..1 | String |
| publishingAgreement | ContactDetails | Publishing agreement | Indication, whether the contact accepted publishing its contact information. | 0..1 (Mandatory for the operator) | Boolean |

10 Unique national identification number

| Attribute name | Class name | Designation | Definition | Multiplicity | Type |
|----------------|---------------|-------------|---------------------------------------|--------------|--------|
| Id | ParkingRecord | Identifier | Unique identifier of the parking site | 1..1 | String |