**DATEX II profile for Rest Areas – Static part**

**ASFINAG**

Version 00-02-00

* 1. Overview

ASFINAG provides DATEX II traffic information of Austrian motorways for service providers and other interested institutions. This profile describes the message content for the Static Part of RestAreas.

The DATEX standard location referencing methods are not included in this document. ASFINAG specific documentation (for example the basis of computation) is accentuated in colour.

* 1. Data Dictionary for "ASFINAG Rest Areas - Static Part"
     1. "GenericPublication" package
        1. "GenericPublication" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| GenericPublication | Generic publication | A publication used to make level B extensions at the publication level. |  | no |

Table 1— Classes of the "GenericPublication" package

* + - 1. "GenericPublication" package association roles

There are no defined association roles in the "GenericPublication" package.

* + - 1. "GenericPublication" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| GenericPublication | genericPublicationName | Generic publication name | The name of the generic publication. | 1..1 | String |

Table 2— Attributes of the "GenericPublication" package

* + 1. "Junction" package
       1. "Junction" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| Junction | Junction | Junction (on a highway), can also be an interchange or if applicable also a motorway service station (see junctionClassification). |  | no |
| PointExtended | Point extended | Extension point for 'Point' to support the description of junctions (and other alternative point descriptions). |  | no |

Table 3— Classes of the "Junction" package

* + - 1. "Junction" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| Junction | destinationMotorway | Destination motorway | In case of any type of intersection, the destination motorway(s) can be defined. | 0..\* | Road |
|  | motorway | Motorway | A detailed identification of the motorway the junction belongs to. | 0..1 | Road |

Table 4— Associations of the "Junction" package

* + - 1. "Junction" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| Junction | junctionClassification | Junction classification | Explicit type of junction. | 0..1 | JunctionClassificationEnum |
|  | junctionName | Junction name | Name of the junction. | 1..1 | MultilingualString |
|  | junctionNumber | Junction number | Number of the junction, might also include letters (example: 23A). | 0..1 | String |
| PointExtended | description | Description | Textual description for a point location | 0..1 | MultilingualString |

Table 5— Attributes of the "Junction" package

* + 1. "OpeningTimes" package
       1. "OpeningTimes" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| OpeningTimes | Opening times | A specification of opening times (e.g. for a parking site, a service facility, an access or the availability for equipment). |  | no |
| PeriodExtended | Period extended | An extension point for Period offering the possibility to describe special days and public holidays. |  | no |
| PublicHoliday | Public holiday | Specification of the public holiday type in a specific country or region. Use this component only when specialDayType is set to 'publicHoliday' or 'holidays'. |  | no |
| SpecialDay | Special day | Specification of a special day, for example schoolDay, electionDay, ... Gives also the possibility to define a public holiday (country specific). |  | no |

Table 6— Classes of the "OpeningTimes" package

* + - 1. "OpeningTimes" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| PeriodExtended | recurringSpecialDay | Recurring special day | A recurring period in terms of special days. | 0..\* | SpecialDay |

Table 7— Associations of the "OpeningTimes" package

* + - 1. "OpeningTimes" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| OpeningTimes | available24hours | Available24hours | Specifies if the availability is 24 hours a day. If omitted, this information is unknown or heterogeneous. | 0..1 | Boolean |
|  | lastUpdated | Last updated | The date/time at which this information was last updated. | 0..1 | DateTime |
|  | openAllYear | Open all year | indicates whether the parking facility is available 365 days a year | 0..1 | Boolean |
|  | openingTimesNotSpecified | Opening times not specified | When true, the opening times are not specified. | 0..1 | Boolean |
|  | openingTimesUnknown | Opening times unknown | When true, the opening times are unknown. | 0..1 | Boolean |
|  | urlLinkAddress | 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 |
| PublicHoliday | country | Country | ISO 3166-1 two character country code. | 1..1 | CountryEnum |
|  | countrySubdivision | Country subdivision | ISO 3166-2 country sub-division code (up to 3 characters). | 0..1 | String |
|  | publicHolidayName | Public holiday name | Specification of public holiday, if the enumeration values do not fit. | 0..1 | MultilingualString |
|  | publicHolidayType | Public holiday type | Specifies the public holiday type for the country or region. | 1..1 | PublicHolidayTypeEnum |
|  | region | Region | Region of country (e.g. "Scotland", "Wales" etc. if country = GB) | 0..1 | MultilingualString |
| SpecialDay | intersectWithApplicableDays | Intersect with applicable days | When true, the period is the intersection of applicable days and this special day. When false, the period is the union of applicable days and this special day.” | 1..1 | Boolean |
|  | specialDayName | Special day name | Specification of a special day, if the enumeration values do not fit. | 0..1 | MultilingualString |
|  | specialDayType | Special day type | Specification of a special day, for example schoolDay, electionDay, .. . | 1..1 | SpecialDayTypeEnum |

Table 8— Attributes of the "OpeningTimes" package

* + 1. "ParkingAccess" package
       1. "ParkingAccess" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| ParkingAccess | Parking access | Describes one entrance or exit (or both) to a parking site. | identifiable | no |

Table 9— Classes of the "ParkingAccess" package

* + - 1. "ParkingAccess" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| ParkingAccess | accessAssignedAmongOthers | Access assigned among others | The assignment given in this class is convenient for this access, but not exclusionary. By using this role, do not use the same set of attributes within the other two roles. | 0..1 | ParkingAssignment |
|  | accessOnlyAssignedFor | Access only assigned for | Only the assignment given in this class is allowed for this access, i.e. other assignments are not allowed. By using this role, do not use the same set of attributes within the other two roles. | 0..1 | ParkingAssignment |
|  | accessProhibitedFor | Access prohibited for | The assignment given in this class is prohibited for this access. By using this role, do not use the same set of attributes within the other two roles. | 0..1 | ParkingAssignment |
|  | primaryRoad | Primary road | Identification for up to two primary roads located nearby the access or which make the parking accessible. | 1..\* | Road |

Table 10— Associations of the "ParkingAccess" package

* + - 1. "ParkingAccess" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| ParkingAccess | accessCategory | Access category | Specifies the category(s) of this access. | 1..\* | AccessCategoryEnum |
|  | accessEquipment | Access equipment | Specifies additional equipment for this access. | 0..\* | AccessEquipmentEnum |
|  | accessibility | Accessibility | Information on accessibility, easements and marking for handicapped people. | 0..\* | AccessibilityEnum |
|  | accessName | Access name | A name of the entrance or exit. This might be an indication to the corresponding road, for example. | 0..1 | MultilingualString |
|  | photoUrl | Photo url | Specifies a URL at which a photo of the object in concern can be found. | 0..1 | Url |

Table 11— Attributes of the "ParkingAccess" package

* + 1. "ParkingEquipmentOrServiceFacility" package
       1. "ParkingEquipmentOrServiceFacility" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| ElectricCharging | Electric charging | Additional information for the equipment 'electricChargingStation'. This component refers to the number of charging stations specified in the attribute 'numberOfEquipmentOrServiceFacilities'. |  | no |
| Equipment | Equipment | One type of equipment, that is available on the parking site. |  | no |
| ParkingEquipmentOrServiceFacility | Parking equipment or service facility | One type of equipment or additional service facility that is available at the parking site, parking space or group of parking spaces. |  | yes |
| ServiceFacility | Service facility | One type of service facility that is available on the parking site or located next to it. You can specify the number of this service facility type (e.g. 5 restaurants) as well as the number of subitems (e.g. 200 restaurant places). |  | no |

Table 12— Classes of the "ParkingEquipmentOrServiceFacility" package

* + - 1. "ParkingEquipmentOrServiceFacility" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| ParkingEquipmentOrServiceFacility | applicableForVehicles | Applicable for vehicles |  | 0..\* | VehicleCharacteristics |
|  | availabilityAndOpeningTimes | Availability and opening times | Specify the general availability of some equipment or service facility (by using just the 'OverallPeriod' component) or specify its opening times more detailed. | 0..1 | OpeningTimes |

Table 13— Associations of the "ParkingEquipmentOrServiceFacility" package

* + - 1. "ParkingEquipmentOrServiceFacility" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| ElectricCharging | chargingStationConnectorType | Charging station connector type | Connector type(s) for the electric charging station(s). | 0..\* | MultilingualString |
|  | chargingStationModelType | Charging station model type | Model type of the electric charging station(s). Brand or company information can be specified in 'ParkingEquipmentOrServiceFacility'. For more than one type of model, use several instances of 'ParkingEquipmentOrServiceFacility'. | 0..1 | MultilingualString |
|  | chargingStationUsageType | Charging station usage type | Usage type of the electric charging station(s). | 1..\* | ChargingStationUsageTypeEnum |
|  | maximumCurrent | Maximum current | The maximum current of the electric charging station(s) (in Ampere). | 0..1 | Ampere |
|  | numberOfChargingPoints | Number of charging points | Number of vehicles or devices, which can be charged simultaneously (sum over all electric charing stations specified with the 'numberOf...' attribute). If omitted, 1 charging point per station is assumed. | 0..1 | NonNegativeInteger |
|  | voltage | Voltage | Available Voltage(s) of the electric charging station(s). | 0..\* | Volt |
| Equipment | equipmentType | Equipment type | One type of equipment, that is available on the parking site. | 1..1 | EquipmentTypeEnum |
| ParkingEquipmentOrServiceFacility | accessibility | Accessibility | Information on accessibility, easements and marking for handicapped people. | 0..\* | AccessibilityEnum |
|  | additionalDescription | Additional description | Provides an additional description. | 0..1 | MultilingualString |
|  | applicableForUser | Applicable for user | Limitation to a set of special users. | 0..\* | UserTypeEnum |
|  | availability | Availability | Specifies, if the element in question is available or not. Note that this is no dynamic information! | 0..1 | AvailabilityEnum |
|  | comment | Comment | A free text comment that can be used by the operator to convey un-coded observations/information. | 0..1 | MultilingualString |
|  | equipmentOrServiceFacilityIdentifier | Equipment or service facility identifier | An internal identifier for the equipment or service facility, e.g. an inventory number. This attribute has an unbounded multiplicity to support identifiers for multiple occurrences of this element. | 0..\* | String |
|  | nameOrBrand | Name or brand | Name or brand of the equipment or service facility, e.g. brand of petrol station, name of the WC-Service etc. | 0..1 | MultilingualString |
|  | numberOfEquipmentOrServiceFacility | Number of equipment or service facility | Number of the specified element (e.g. number of toilets, restaurants, park & ride places, etc.) with respect to user restriction for the parking record, a complete group of spaces or a single space. Dynamic overridable. | 0..1 | NonNegativeInteger |
|  | otherEquipmentOrServiceFacility | 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 |
|  | photoUrl | Photo url | Specifies a URL at which a photo of the object in concern can be found. | 0..1 | Url |
| ServiceFacility | distanceFromParkingSite | Distance from parking site | If the service facility is not located on the parking site itself, its distance can be specified here in metres. | 0..1 | MetresAsNonNegativeInteger |
|  | numberOfSubitems | Number of subitems | The quantity of sub items to this service facility type, e.g. the total number of restaurant places or fuel dispensers etc. | 0..1 | NonNegativeInteger |
|  | serviceFacilityType | Service facility type | One type of service, that is available on the parking site. | 1..1 | ServiceFacilityTypeEnum |

Table 14— Attributes of the "ParkingEquipmentOrServiceFacility" package

* + 1. "ParkingRecord" package
       1. "ParkingRecord" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| Contact | Contact | Address and contact information about some person, service or the parking site, provided in detail or via reference. |  | no |
| ContactByReference | Contact by reference | Contact information that is addressed via a reference. |  | no |
| ContactDetails | Contact details | Details for some person, service or the parking site itself, especially address information. | versionedIdentifiable | no |
| ParkingRecord | Parking record | A container for static parking information. Must be specialised as a parking site or as a group of parking sites. | versionedIdentifiable | yes |
| ParkingRoute | Parking route | A parking route, defined by ParkingRouteDetails or by a reference. |  | yes |
| ParkingRouteByReference | Parking route by reference | A route defined by a reference to an earlier specified route. |  | no |
| ParkingRouteDetails | Parking route details | Urban context: Defining parking routes leading to the parking site. Truck parking context: Can be used to define a dynamic route management. | versionedIdentifiable | no |
| ParkingStatusColourMapping | Parking status colour mapping | Defines a pair of 'parkingSiteStatus' and a corresponding colour. |  | no |
| ParkingThresholds | Parking thresholds | Configuration parameters of the parking site, used among others for the dynamic attribute 'parkingStatus'. This component or all elements of it can be overridden in the dynamic model. |  | no |
| ParkingVMS | Parking v m s | A reference to a record that contains the metadata for a specific VMS unit that may be used to manage the parking site (e.g. to indicate to drivers the current availability of spaces). |  | no |
| PermitsAndProhibitions | Permits and prohibitions | Defines sets of action and regulations to specify permitted and prohibited issues. |  | no |
| RGBColour | R g b colour | An RGB colour described by values for red, green and blue (0..255) as well as an optional name. |  | no |

Table 15— Classes of the "ParkingRecord" package

* + - 1. "ParkingRecord" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| Contact | validityOfContact | Validity of contact |  | 0..1 | OverallPeriod |
| ParkingRecord | assignedParkingAmongOthers | Assigned parking among others | Assignments for parking. Other assignments are allowed as well, i.e. the parking spaces are convenient for this kind of assignment. | 0..1 | ParkingAssignment |
|  | emergencyAssemblyPoint | Emergency assembly point | Some geographic location(s) within or nearby the parking, where people have to meet in case of a fire, for example. | 0..1 | GroupOfLocations |
|  | emergencyContact | Emergency contact | Contact to be used in times of emergencies. | 0..\* | Contact |
|  | entireArea | Entire area | An underlaying area this parking record is located in or belongs to. Examples are a state, province, truck parking area etc. A name can be specified in the area structure. | 0..1 | Area |
|  | groupOfParkingSpaces | Group of parking spaces | Properties for a group of parking spaces. Usually, all properties specified have to be the same for all spaces included. This aggregation may only be used with the "GroupOfParkingSpaces" specialisation. | 1..1 | ParkingSpaceBasics |
|  | onlyAssignedParking | Only assigned parking | Parking is only allowed for the assignment given in this class, i.e. other assignments are not allowed. By using this role, it is not allowed to use 'assignedParkingAmongOthers' and 'prohibitedParking' for the same type of attributes. | 0..1 | ParkingAssignment |
|  | operator | Operator | Contact details of the operator of the parking facility. | 1..\* | Contact |
|  | owner | Owner | Contact details of the owner of the parking facility. | 0..\* | Contact |
|  | parkingColour | Parking colour | A colour, which can be assigned to the parking. Often used with parking areas for a quick visual distinction. | 0..1 | RGBColour |
|  | parkingLocation | Parking location | The location(s) or the extent of the parking. Examples could be an Area for parking area, a Point location for an urban parking facility or a Linear for on street parking. | 1..1 | GroupOfLocations |
|  | parkingRecordDimension | Parking record dimension | Dimension either of the building or a virtual rectangle encapsulating the parking site(s). Use 'dimensionUsableArea' to define the total space available for parking. Use 'dimensionHeight' only for a building, not for the restriction of vehicles. | 0..1 | Dimension |
|  | parkingSpace | Parking space | Properties of a single parking space. This aggregation may only be used with the "ParkingSpace" specialisation. | 1..1 | ParkingSpaceBasics |
|  | prohibitedParking | Prohibited parking | Parking is not allowed for the given assignment. | 0..1 | ParkingAssignment |
|  | responisbleAuthority | Responisble authority | Contact details of the responsible authority of the parking facility or parking area. | 0..\* | Contact |
|  | securityService | Security service | Contact details of one or more security services of the parking facility. | 0..\* | Contact |
|  | servicePartner | Service partner | Contact details of a service partner of the parking record, i.e. the person or organisation that should be contacted to provide servicing or support services for equipment at the parking. | 0..\* | Contact |
| ParkingRoute | parkingRouteColour | Parking route colour | A colour assigned to a parking route for visualisation purpose. | 0..1 | RGBColour |
| ParkingVMS | vmsOperator | VMS operator |  | 0..\* | Contact |

Table 16— Associations of the "ParkingRecord" package

* + - 1. "ParkingRecord" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| Contact | contactNotDefined | 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 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 |
| ContactByReference | contactReference | Contact reference | Contact information provided by a reference. | 1..1 | VersionedReference |
| ContactDetails | available24hours | Available24hours | Specifies if the availability is 24 hours a day. If omitted, this information is unknown or heterogeneous. | 0..1 | Boolean |
|  | contactDetailsAddress | Contact details address | Complete address of the contact. Alternatively use the separate fields to describe the address. | 0..1 | MultilingualString |
|  | contactDetailsCity | Contact details city | City of the contact. | 0..1 | MultilingualString |
|  | contactDetailsEMail | Contact details e mail | E-Mail address of the contact. | 0..1 | String |
|  | contactDetailsFax | Contact details fax | Fax of the contact. | 0..1 | String |
|  | contactDetailsHouseNumber | Contact details house number | House number of the contact. Supports a multiplicity up to two, to specify lower and upper numbers. | 0..2 | String |
|  | contactDetailsLanguage | Contact details language | Language(s) this contact is able to speak resp. understand. | 0..\* | Language |
|  | contactDetailsLogoUrl | Contact details logo url | Url to define a logo of this contact. | 0..1 | Url |
|  | contactDetailsMoreInfo | Contact details more info | Additional information relating to the contact. | 0..\* | MultilingualString |
|  | contactDetailsOwnership | Contact details ownership | Information if the contact in question is a private or public institution. | 0..1 | OwnershipTypeEnum |
|  | contactDetailsPostcode | Contact details postcode | Postcode of the contact. | 0..1 | String |
|  | contactDetailsResponsibility | Contact details responsibility | Specification of what service or equipment the contact is responsible for. | 0..\* | MultilingualString |
|  | contactDetailsStreet | Contact details street | Street of the contact. | 0..1 | String |
|  | contactDetailsTelephoneNumber | Contact details telephone number | Telephone Number of contact. | 0..1 | String |
|  | contactOrganisationName | Contact organisation name | Name of the organisation or service. Do not use this attribute in combination with role "parkingSiteAddress". | 0..1 | MultilingualString |
|  | contactPersonFirstName | Contact person first name | First name of the contact person. | 0..1 | String |
|  | contactPersonName | Contact person name | Name of the contact person. | 0..1 | String |
|  | contactPersonPosition | Contact person position | The position of the contact person. | 0..1 | MultilingualString |
|  | country | Country | ISO 3166-1 two character country code. | 0..1 | CountryEnum |
|  | publishingAgreement | Publishing agreement | Indication, whether the contact accepted publishing its contact information. | 0..1 | Boolean |
|  | urlLinkAddress | 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 |
| ParkingRecord | maximumParkingDuration | Maximum parking duration | The maximum parking duration for a parking record, a parking space or a group of parking spaces (e.g. to avoid overnight parking). | 0..1 | Seconds |
|  | parkingAlias | Parking alias | Alternative name for the parking site or the group of parking sites. | 0..\* | MultilingualString |
|  | parkingDescription | Parking description | Additional description of the parking site or the group of parking sites. | 0..1 | MultilingualString |
|  | parkingName | Parking name | Name of the parking, i.e. name of the parking site or the group of parking sites. | 1..1 | MultilingualString |
|  | parkingNumberOfSpaces | Parking number of spaces | Number of parking spaces (attribute is used for a parking record as well as for a group of parking spaces). | 0..1 | NonNegativeInteger |
|  | parkingOccupanyDetectionType | Parking occupany detection type | Type of parking occupancy detection for a parking record, a parking space or a group of parking spaces, if any (balancing, single slot, ... ). | 0..\* | OccupancyDetectionTypeEnum |
|  | parkingPrincipalNumberOfSpaces | Parking principal number of spaces | Number of parking spaces that are not assigned for a particular purpose. | 0..1 | NonNegativeInteger |
|  | parkingRecordVersionTime | Parking record version time | Date/time that this version of the parking record was defined. | 1..1 | DateTime |
|  | photoUrl | Photo url | Specifies a URL at which a photo of the object in concern can be found. | 0..1 | Url |
|  | urlLinkAddress | 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 |
| ParkingRouteByReference | parkingRouteReference | Parking route reference | A reference to a parking route. | 1..1 | VersionedReference |
| ParkingRouteDetails | dynamicRouteManagement | Dynamic route management | Indicates that there is dynamic route management for truck parking, i.e. a management system concerning several truck parkings (including this one) along a route. | 0..1 | Boolean |
|  | parkingRouteDirection | Parking route direction | The direction of traffic, for which the parking route can be used. If not specified, the route can be used in the order of the given locations. | 0..1 | DirectionEnum |
|  | parkingRouteDirection2 | Parking route direction2 | Additional directions of traffic, for which the parking route can be used. If not specified, the route can be used in the order of the given locations. | 0..1 | ParkingRouteDirectionEnum |
|  | parkingRouteIconIndex | Parking route icon index | An index, which can identify some icon for visualisation of the route. Note that form and usage of this index as well as the icons itself are not further determined here. | 0..1 | String |
|  | parkingRouteName | Parking route name | Name of the parking route. | 0..1 | MultilingualString |
|  | parkingRouteType | Parking route type | The type of parking route. If not specified, the route is designed for any type of vehicles. | 0..1 | ParkingRouteTypeEnum |
| ParkingStatusColourMapping | parkingSiteStatus | Parking site status | The status of the parking site (spaces available or not). | 1..1 | ParkingSiteStatusEnum |
| ParkingThresholds | almostFullDecreasing | Almost full decreasing | The number of available spaces above which the state of the parking site is considered to change from 'almost full' to 'spaces available' as the parking site's occupancy decreases. Must be greater than 'almostFullIncreasing' value. | 0..1 | NonNegativeInteger |
|  | almostFullIncreasing | Almost full increasing | The number of available spaces below which the state of the site is considered to change from 'spaces available' to 'almost full' as the site's occupancy increases. Must be lower or equal to 'almostFullDecreasing' and greater 'fullDecreasing'. | 0..1 | NonNegativeInteger |
|  | entranceFull | Entrance full | The number of available spaces below which the parking site is considered to be 'full' at its entrance (e.g. full sign is displayed at entrance or on managing VMS). | 0..1 | NonNegativeInteger |
|  | fullDecreasing | Full decreasing | The number of available spaces above which the state of the parking site is considered to change from 'full' to 'almost full' as the site's occupancy decreases. Must be greater or equal to 'fullIncreasing' value and lower than 'almostFullIncreasing'. | 0..1 | NonNegativeInteger |
|  | fullIncreasing | Full increasing | The number of available spaces below which the state of the parking site is considered to change from 'almost full' to 'full' as the site's occupancy increases. Must be lower than or equal to 'fullDecreasing' value. | 0..1 | NonNegativeInteger |
|  | overcrowding | Overcrowding | The number of vehicles on the parking above which the overcrowding state of the parking site is considered to change to 'overcrowding'. Can be used as an alternative to the overcrowding level attributes. | 0..1 | NonNegativeInteger |
|  | overcrowdingLevel1 | Overcrowding level1 | The number of vehicles on the parking site above which the overcrowding state of the parking site is considered to change from 'noOvercrowding' to 'overcrowdingLevel1'. Must be lower than the 'overcrowdingLevel2' value. | 0..1 | NonNegativeInteger |
|  | overcrowdingLevel2 | Overcrowding level2 | The number of vehicles on the parking site above which the overcrowding state of the parking site is considered to change from 'overcrowdingLevel1' to 'overcrowdingLevel2'. Must be greater than the 'overcrowdingLevel1' value. | 0..1 | NonNegativeInteger |
|  | parkingLastMaximumOccupancy | Parking last maximum occupancy | The last known occupancy (number of parking vehicles on the site) under safe conditions. | 0..1 | NonNegativeInteger |
| ParkingVMS | vmsUnitUsedToManageParking | VMS unit used to manage parking | A reference to a record that contains the metadata for a specific VMS unit that may be used to manage the parking site (e.g. to indicate to drivers the current availability of spaces). | 1..1 | VersionedReference |
| PermitsAndProhibitions | activity | Activity | An activity, which is regulated. | 1..1 | RestAreaActivityEnum |
|  | regulation | Regulation | Regulation for the specified activity. | 1..1 | RegulationEnum |
| RGBColour | colourName | Colour name | The name of the colour. | 0..1 | MultilingualString |
|  | rgbBlueValue | Rgb blue value | The blue value of the RGB colour (0..255). | 1..1 | NonNegativeInteger |
|  | rgbGreenValue | Rgb green value | The green value of the RGB colour (0..255). | 1..1 | NonNegativeInteger |
|  | rgbRedValue | Rgb red value | The red value of the RGB colour (0..255). | 1..1 | NonNegativeInteger |

Table 17— Attributes of the "ParkingRecord" package

* + 1. "ParkingSite" package
       1. "ParkingSite" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| InterUrbanParkingSite | Inter urban parking site | A parking site in an interurban context. |  | no |
| ParkingSite | Parking site | A record containing static details of a parking site. Must be specialised as an 'Urban-' or 'InterUrbanParkingSite' or a 'SpecialLocationParkingSite'. |  | yes |
| ParkingUsageScenario | Parking usage scenario | A special type of usage available for the parking site or the group of parking spaces. In the 'ParkingStatusPublication', the operation type (in operation or not) can be defined. |  | no |
| SpecialLocationParkingSite | Special location parking site | A parking site which is located at a special location, often associated with some building. |  | no |
| UrbanParkingSite | Urban parking site | A parking site in an urban context. |  | no |

Table 18— Classes of the "ParkingSite" package

* + - 1. "ParkingSite" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| ParkingSite | parkingSiteAddress | Parking site address | Information about the parking site itself (address etc.). The 'GroupOfLocations' association must not be used for this role. | 1..\* | Contact |
|  | reservationService | Reservation service | Reservation service (for end users). It is recommended to give URL and telephone. | 0..\* | Contact |
| ParkingUsageScenario | scenarioAvailability | Scenario availability |  | 0..1 | OverallPeriod |

Table 19— Associations of the "ParkingSite" package

* + - 1. "ParkingSite" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| InterUrbanParkingSite | interUrbanParkingSiteLocation | Inter urban parking site location | Defines whether the interurban parking site is located in or nearby a motorway context, is a layby or on-street parking. | 1..1 | InterUrbanParkingSiteLocationEnum |
| ParkingSite | highestFloor | Highest floor | Highest floor of the parking site. It is possible to have negative values here in case it is underground only. Must be higher or equal than 'lowestFloor'. | 0..1 | Integer |
|  | lowestFloor | Lowest floor | Lowest floor of the parking site. Positive values may apply in case it is over ground only. Must be lower or equal than 'highestFloor'. | 0..1 | Integer |
|  | parkingLayout | Parking layout | Layout of the parking site. | 0..\* | ParkingLayoutEnum |
|  | parkingReservation | Parking reservation | Indication of whether a parking reservation service is available and/or mandatory. | 0..1 | ReservationTypeEnum |
|  | temporaryParking | Temporary parking | Indicates that the parking site is on a temporary basis. It might close permanently within short notice or might only be partial equipped. The physical parking possibilities might be provisional, too. | 0..1 | Boolean |
| ParkingUsageScenario | parkingUsageScenario | Parking usage scenario | A special type of usage available for the parking site or a group of parking spaces. In the 'ParkingStatusPublication', the operation type (in operation or not) can be defined. | 1..1 | ParkingUsageScenarioEnum |
|  | truckParkingDynamicManagement | Truck parking dynamic management | Two modes for parking lorries in a efficient way according to their departure times. May only be used for parking scenario 'truckParking'. | 0..\* | TruckParkingDynamicManagementEnum |
| SpecialLocationParkingSite | parkingOtherSpecialLocation | Parking other special location | A special location not available in the enumeration. Use literal 'other' in this case. | 0..1 | MultilingualString |
|  | parkingSpecialLocation | Parking special location | The special location of the parking site. | 1..1 | ParkingSpecialLocationEnum |
| UrbanParkingSite | parkingZone | Parking zone | Name or identifier of a parking zone this parking site belongs to. To be filled with the string value 'True', if there is a parking zone with unknown name. | 0..1 | MultilingualString |
|  | urbanParkingSiteType | Urban parking site type | The type of urban parking site. | 1..1 | UrbanParkingSiteTypeEnum |

Table 20— Attributes of the "ParkingSite" package

* + 1. "ParkingSpace" package
       1. "ParkingSpace" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| Dimension | Dimension | A component that provides dimension information. The product of width and height must not be necessarily be the square footage (e.g. in multi-storey buildings or when some zones are not part of the square footage). |  | no |
| GroupOfParkingSpaces | Group of parking spaces | A group of parking spaces. All information provided has to be identical for all places in this group. Can also be used just to give the number of lorry parkings, for example. 'GroupOfParkingSpaces' may be multiple defined or include each other. |  | no |
| ParkingSpace | Parking space | A single parking space. It is possible to define the same parking space more than once with different properties, e.g. when there is a different parking assignment for different times. |  | no |

Table 21— Classes of the "ParkingSpace" package

* + - 1. "ParkingSpace" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| GroupOfParkingSpaces | dimensionOfGroup | Dimension of group | Dimension of a virtual rectangle encapsulating the group of parking spaces. Use 'dimensionUsableArea' to define the total space available for parking within this group. Do not use 'dimensionHeight'. | 0..1 | Dimension |
|  | maximumParkingSpaceDimension | Maximum parking space dimension | Dimension of the largest space within this group (i.e. there must be at least one space of this dimension). If the comparison of dimension values is not unique, the length is decisive. | 0..1 | Dimension |
|  | minimumParkingSpaceDimension | Minimum parking space dimension | Lower dimension boundaries for all spaces within the group. Note that there must not exist a space with this dimension, but each space's dimension values must be equal or higher. | 0..1 | Dimension |
| ParkingSpace | parkingSpaceDimension | Parking space dimension | Dimension of the parking space (not all dimension attributes need to be provided). If the parking space is not rectangular, its dimension is specified as the smallest rectangle fitting inside its shape. | 0..1 | Dimension |

Table 22— Associations of the "ParkingSpace" package

* + - 1. "ParkingSpace" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| Dimension | dimensionHeight | Dimension height | Height. | 0..1 | MetresAsFloat |
|  | dimensionLength | Dimension length | Length. | 0..1 | MetresAsFloat |
|  | dimensionUsableArea | Dimension usable area | The area measured in square metres, that is available for some specific purpose. | 0..1 | SquareMetres |
|  | dimensionWidth | Dimension width | Width. | 0..1 | MetresAsFloat |
| GroupOfParkingSpaces | identicalToGroup | Identical to group | Points to another instance of 'GroupOfParkingSpaces', which is identical from a local point of view. To be used when defining mixed parking areas with different time slots. | 0..\* | IndexReference |
|  | parkingNumberOfSpaces | Parking number of spaces | Number of parking spaces (attribute is used for a parking record as well as for a group of parking spaces). | 1..1 | NonNegativeInteger |
|  | parkingTypeOfGroup | Parking type of group | Defines the type of this group specification. | 1..1 | ParkingTypeOfGroup |
|  | realSubsetOfGroup | Real subset of group | Points to another instance of 'GroupOfParkingSpaces', which is a real superset from a local point of view. To be used when defining mixed parking areas with different time slots. | 0..\* | IndexReference |
| ParkingSpace | identicalToParkingSpace | Identical to parking space | Points to another instance of 'ParkingSpace', which is identical from a local point of view (i.e. which is the same parking space). To be used when defining mixed parking areas (with using different time slots). | 0..\* | IndexReference |

Table 23— Attributes of the "ParkingSpace" package

* + 1. "ParkingSpaceBasics" package
       1. "ParkingSpaceBasics" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| DedicatedAccess | Dedicated access | Reference to an access of any type (vehicles, pedestrian, ...). |  | no |
| ParkingAssignment | Parking assignment | One set of prohibited/only allowed/convenient assignment for parking space(s), parking site(s) or an access. Same kind of data forms a union (e.g. lorries OR buses), different kind of data forms an intersection (e.g. residents AND long-term). |  | no |
| ParkingPermit | Parking permit | A permission for parking. |  | no |
| ParkingSpaceBasics | Parking space basics | Common properties of parking spaces and groups of parking spaces. |  | yes |

Table 24— Classes of the "ParkingSpaceBasics" package

* + - 1. "ParkingSpaceBasics" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| ParkingSpaceBasics | assignedParkingAmongOthers | Assigned parking among others | Assignments for parking. Other assignments are allowed as well, i.e. the parking spaces are convenient for this kind of assignment. | 0..1 | ParkingAssignment |
|  | onlyAssignedParking | Only assigned parking | Parking is only allowed for the assignment given in this class, i.e. other assignments are not allowed. By using this role, it is not allowed to use 'assignedParkingAmongOthers' and 'prohibitedParking' for the same type of attributes. | 0..1 | ParkingAssignment |
|  | prohibitedParking | Prohibited parking | Parking is not allowed for the given assignment. | 0..1 | ParkingAssignment |

Table 25— Associations of the "ParkingSpaceBasics" package

* + - 1. "ParkingSpaceBasics" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| DedicatedAccess | dedicatedAccess | Dedicated access | Specifies a reference to an access, object (i.e. an entrance, an exit or both). A Point location and further characteristics can be specified for those objects. | 1..1 | Reference |
|  | distanceFromParkingSpace | Distance from parking space | Distance from this access to the parking space or group of parking spaces. Especially interesting for handicapped people on the one hand or in case of the need of changing the side of a motorway. | 0..1 | MetresAsNonNegativeInteger |
| ParkingAssignment | applicableForUser | Applicable for user | Limitation to a set of special users. | 0..\* | UserTypeEnum |
|  | parkingDuration | Parking duration | Temporal parking classification for this assignment (long term, short term, ...). Depending on the used role, these classifications are either assigned or prohibited. | 0..\* | ParkingDurationEnum |
| ParkingPermit | parkingPermitIdentifier | Parking permit identifier | Identifier of permission for parking. | 0..1 | String |
|  | parkingPermitScheme | Parking permit scheme | Scheme of permission for parking. | 0..1 | String |
|  | parkingPermitType | Parking permit type | Type of permission for parking. | 1..1 | PermitTypeEnum |
| ParkingSpaceBasics | accessibility | Accessibility | Information on accessibility, easements and marking for handicapped people. | 0..\* | AccessibilityEnum |
|  | distanceFromPrimaryRoad | Distance from primary road | Specifies the distance from the primary road in metres. Especially useful, if parking is located on a smaller type of road. | 0..1 | MetresAsNonNegativeInteger |
|  | maximumParkingDuration | Maximum parking duration | The maximum parking duration for a parking record, a parking space or a group of parking spaces (e.g. to avoid overnight parking). | 0..1 | Seconds |
|  | parkingFloorOrLevel | Parking floor or level | The floor or level of the parking site on which the assigned parking spaces are located. | 0..1 | Integer |
|  | parkingMode | Parking mode | The arrangement of the parking space or the group of parking spaces in relation to the road. | 0..1 | ParkingModeEnum |
|  | parkingOccupanyDetectionType | Parking occupany detection type | Type of parking occupancy detection for a parking record, a parking space or a group of parking spaces, if any (balancing, single slot, ... ). | 0..\* | OccupancyDetectionTypeEnum |
|  | parkingReservation | Parking reservation | Indication of whether a parking reservation service is available and/or mandatory. | 0..1 | ReservationTypeEnum |
|  | parkingSecurity | Parking security | Specifies security measures related to the parking site or particular spaces. | 1..\* | ParkingSecurityEnum |
|  | parkingSpaceAccessibility | Parking space accessibility | Further easements for handicapped people related to this parking space or this group of parking spaces. | 0..\* | ParkingSpaceAccessibilityEnum |
|  | parkingSpaceOrGroupIdentifier | Parking space or group identifier | A public identifier or short description for the parking space or group of parking spaces, for example "6D" or "Truck parking west". | 0..1 | MultilingualString |
|  | parkingSpacePhysics | Parking space physics | Specifies 'driveThrough' or 'openAir' for the parking space or the group of parking spaces. | 0..2 | ParkingSpacePhysicsEnum |

Table 26— Attributes of the "ParkingSpaceBasics" package

* + 1. "ParkingStandardsAndSecurity" package
       1. "ParkingStandardsAndSecurity" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| ParkingStandardsAndSecurity | Parking standards and security | Security measures and standards or standard-like categorization for a parking site. |  | no |

Table 27— Classes of the "ParkingStandardsAndSecurity" package

* + - 1. "ParkingStandardsAndSecurity" package association roles

There are no defined association roles in the "ParkingStandardsAndSecurity" package.

* + - 1. "ParkingStandardsAndSecurity" package attributes

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

Table 28— Attributes of the "ParkingStandardsAndSecurity" package

* + 1. "ParkingTablePublication" package
       1. "ParkingTablePublication" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| GroupOfParkingSites | Group of parking sites | A logical composition of parking sites with aggregated properties (e.g. number of spaces). Examples: Urban parking area "West" or all truck parkings along a motorway. The included parking sites may -but must not- be specified as subcomponents. |  | no |
| ParkingTable | Parking table | A collection of parking records, which can be parking sites or groups of parking sites. | versionedIdentifiable | no |
| ParkingTablePublication | Parking table publication | A publication defining one or more tables that have entries of parking sites or groups of them, located in an urban or interurban context. |  | no |

Table 29— Classes of the "ParkingTablePublication" package

* + - 1. "ParkingTablePublication" package association roles

There are no defined association roles in the "ParkingTablePublication" package.

* + - 1. "ParkingTablePublication" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| GroupOfParkingSites | groupOfParkingSitesType | Group of parking sites type | The type of this group of parking sites. | 0..1 | GroupOfParkingSitesTypeEnum |
|  | parkingSiteByReference | Parking site by reference | Parking sites of this collection defined by reference. | 0..\* | VersionedReference |
| ParkingTable | parkingTableName | Parking table name | The name of the parking table. | 0..1 | MultilingualString |
|  | parkingTableVersionTime | Parking table version time | The date/time that this version of the parking table was defined by the supplier. The identity and version of the table are defined by the class stereotype implementation. | 1..1 | DateTime |

Table 30— Attributes of the "ParkingTablePublication" package

* + 1. "PolygonArea" package
       1. "PolygonArea" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| AreaExtended | Area extended | Extension class for area used in parking publication extension. |  | no |
| NamedArea | Named area | An area defined by a name and/or in terms of known boundaries, such as country or county boundaries or allocated control area of particular authority. The attributes do not form a union; instead, the smallest intersection forms the resulting area. |  | no |
| PolygonArea | Polygon area | defines points for a closed polygon-shape describing the area |  | no |

Table 31— Classes of the "PolygonArea" package

* + - 1. "PolygonArea" package association roles

There are no defined association roles in the "PolygonArea" package.

* + - 1. "PolygonArea" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| NamedArea | areaName | Area name | Name of an area. | 0..1 | MultilingualString |
|  | country | Country | ISO 3166-1 two character country code. | 0..1 | CountryEnum |
|  | county | County | Name of a county (administrative sub-division). | 0..1 | MultilingualString |
|  | nation | Nation | Name of a nation (e.g. Wales) which is a sub-division of an ISO recognised country. | 0..1 | MultilingualString |
|  | policeForceControlArea | Police force control area | Name of a police force area. | 0..1 | MultilingualString |
|  | roadOperatorControlArea | Road operator control area | Name of a road operator control area. | 0..1 | MultilingualString |
| PolygonArea | sectionName | Section name | Name of the polygon area. Especially useful when the area consists of more than one polygon. | 0..1 | MultilingualString |

Table 32— Attributes of the "PolygonArea" package

* + 1. "Road" package
       1. "Road" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| Road | Road | Identification of a road by its name, identifier, type ... |  | no |
| RoadNode | Road node | A road node as part of the specialised road identified by the name of a junctionon on this road. |  | no |

Table 33— Classes of the "Road" package

* + - 1. "Road" package association roles

There are no defined association roles in the "Road" package.

* + - 1. "Road" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| Road | distanceToThisRoad | Distance to this road | Distance to the road in metres (from the calling component/object). | 0..1 | MetresAsNonNegativeInteger |
|  | nameOfRoad | Name of road | The name of the road. | 0..1 | MultilingualString |
|  | roadDestination | Road destination | Name of some city, area, compass direction or other identification the road is leading to (to determine the direction in question). | 1..\* | MultilingualString |
|  | roadIdentifier | Road identifier | Identifier/number of the road. | 1..1 | MultilingualString |
|  | roadOrigination | Road origination | Name of some city, area, compass direction or other identification this road comes from. | 0..\* | MultilingualString |
|  | typeOfRoad | Type of road | Type of the road. | 0..1 | RoadTypeEnum |
| RoadNode | junctionName | Junction name | Name of the junction. | 1..1 | MultilingualString |

Table 34— Attributes of the "Road" package

* + 1. "TariffsAndPayment" package
       1. "TariffsAndPayment" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| AcceptedPaymentCards | Accepted payment cards | Use this class to describe details in case acceptedMeansOfPayment is set to 'paymentCard'. |  | no |
| Charge | Charge | A particular charge for a specified interval belonging a charge band. |  | no |
| ChargeBand | 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 (in case of parking). | versionedIdentifiable | no |
| ChargeBandByReference | Charge band by reference | Using (a) prior defined charge band(s), identified by its reference. |  | no |
| TariffsAndPayment | Tariffs and payment | A table of charges under various conditions, primary used for parking. |  | no |

Table 35— Classes of the "TariffsAndPayment" package

* + - 1. "TariffsAndPayment" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| ChargeBand | applicableForPeriod | Applicable for period | Charge band limitation on a (complex) period, described by the validity model. | 0..1 | OverallPeriod |
|  | applicableForVehicles | Applicable for vehicles | Charge band limitation on a set of vehicles described by their characteristics. | 0..\* | VehicleCharacteristics |

Table 36— Associations of the "TariffsAndPayment" package

* + - 1. "TariffsAndPayment" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| AcceptedPaymentCards | otherPaymentCardBrands | Other payment card brands | Further accepted brands of payment cards. | 0..\* | String |
|  | otherPaymentCards | Other payment cards | Further accepted payment cards. | 0..\* | String |
|  | paymentCardBrands | Payment card brands | List of accepted brands for payment cards. | 0..\* | PaymentCardBrandsEnum |
|  | paymentCards | Payment cards | List of accepted payment cards. | 1..\* | PaymentCardTypesEnum |
| Charge | charge | Charge | Charge for the specified interval (for vehicle of defined characteristics, if any specified) up to the maximum defined duration and during the defined period(s). | 1..1 | AmountOfMoney |
|  | chargeInterval | Charge interval | Interval for which the charge applies (e.g. charge applies for 2 hours (to specify in seconds)). If no interval is specified, the price is valid for the whole period (kind of flat fee). | 0..1 | Seconds |
|  | chargeOrderIndex | Charge order index | A non-unique index which forms an order for applying charges, i.e. a charge may never be applied afterwards a charge with a higher index. For same indices there is no order-restriction. You can skip charges unless their 'minIterationsOfCharge' is not > 0. | 0..1 | NonNegativeInteger |
|  | chargeType | Charge type | The type of charge. Day- week- month- and year-charges can be specified without this enumeration by specifying the interval. | 0..1 | ChargeTypeEnum |
|  | chargeTypeDescription | Charge type description | Additional description for this kind of charge type, especially if the enumeration does not fit. | 0..1 | MultilingualString |
|  | maxIterationsOfCharge | Max iterations of charge | This charge must not be applied more often within this charge band than specified in this attribute. Thus it is possible to specify the first hour for free, for example. | 0..1 | NonNegativeInteger |
|  | minIterationsOfCharge | Min iterations of charge | This charge must be applied within this charge band at least as often as specified in this attribute. Thus it is possible to specify the first hour in an expensive manner, for example. | 0..1 | NonNegativeInteger |
| ChargeBand | applicableForUser | Applicable for user | Limitation to a set of special users. | 0..\* | UserTypeEnum |
|  | chargeBandName | Charge band name | Name for this charge band. | 0..1 | MultilingualString |
|  | chargeCurrency | 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 |
|  | maximumDuration | Maximum duration | The maximum duration (e.g. of parking) for which the specified charge is applicable. | 0..1 | Seconds |
| ChargeBandByReference | chargeBandReference | Charge band reference | A reference to a charge band. | 1..1 | VersionedReference |
| TariffsAndPayment | acceptedMeansOfPayment | Accepted means of payment | Method(s) by which the user can make payments. In case of 'paymentCard' use AcceptedPaymentCards to specify more details. | 0..\* | MeansOfPaymentEnum |
|  | freeOfCharge | Free of charge | No fee at all. In this case, no further elements of the tariffs structure are needed. | 0..1 | Boolean |
|  | lastUpdated | Last updated | The date/time at which this information was last updated. | 0..1 | DateTime |
|  | paymentAdditionalDescription | Payment additional description | Additional description, for instance instructions or telephone number for paying by SMS. | 0..1 | MultilingualString |
|  | paymentMode | Payment mode | Modes how to realize the payment ('payAndDisplay', 'payByPrepaidToken', ...). | 0..\* | ParkingPaymentModeEnum |
|  | reservationFee | Reservation fee | A fee for reservation, if this is uniform for all situations. Can also be 0 to indicate free reservations. This attribute does not indicate if reservation is available at all and/or mandatory. | 0..1 | AmountOfMoney |
|  | urlLinkAddress | 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 |

Table 37— Attributes of the "TariffsAndPayment" package

* + 1. "Validity" package
       1. "Validity" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| DayWeekMonth | Day week month | Specification of periods defined by the intersection of days, weeks and months. |  | no |
| OverallPeriod | Overall period | A continuous or discontinuous period of validity defined by overall bounding start and end times and the possible intersection of valid periods (potentially recurring) with the complement of exception periods (also potentially recurring). |  | no |
| Period | Period | A continuous time period or a set of discontinuous time periods defined by the intersection of a set of criteria all within an overall delimiting interval. |  | no |
| Validity | Validity | Specification of validity, either explicitly or by a validity time period specification which may be discontinuous. |  | no |

Table 38— Classes of the "Validity" package

* + - 1. "Validity" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| OverallPeriod | exceptionPeriod | Exception period | A single time period, a recurring time period or a set of different recurring time periods during which validity is false. | 0..\* | Period |
|  | validPeriod | Valid period | A single time period, a recurring time period or a set of different recurring time periods during which validity is true. | 0..\* | Period |
| Period | recurringDayWeekMonthPeriod | Recurring day week month period | A recurring period defined in terms of days of the week, weeks of the month and months of the year. | 0..\* | DayWeekMonth |
|  | recurringTimePeriodOfDay | Recurring time period of day | A recurring period of a day. | 0..\* | TimePeriodOfDay |
| Validity | validityTimeSpecification | Validity time specification | A specification of periods of validity defined by overall bounding start and end times and the possible intersection of valid periods with exception periods (exception periods overriding valid periods). | 1..1 | OverallPeriod |

Table 39— Associations of the "Validity" package

* + - 1. "Validity" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| DayWeekMonth | applicableDay | Applicable day | Applicable day of the week. "All days of the week" is expressed by non-inclusion of this attribute. | 0..7 | DayEnum |
|  | applicableMonth | Applicable month | Applicable month of the year. "All months of the year" is expressed by non-inclusion of this attribute. | 0..12 | MonthOfYearEnum |
|  | applicableWeek | Applicable week | Applicable week of the month (1 to 5). "All weeks of the month" is expressed by non-inclusion of this attribute. | 0..5 | WeekOfMonthEnum |
| OverallPeriod | overallEndTime | Overall end time | End of bounding period of validity defined by date and time. | 0..1 | DateTime |
|  | overallStartTime | Overall start time | Start of bounding period of validity defined by date and time. | 1..1 | DateTime |
| Period | endOfPeriod | End of period | End of a period. | 0..1 | DateTime |
|  | periodName | Period name | The name of the period. | 0..1 | MultilingualString |
|  | startOfPeriod | Start of period | Start of period. | 0..1 | DateTime |
| Validity | overrunning | Overrunning | The activity or action described by the SituationRecord is still in progress, overrunning its planned duration as indicated in a previous version of this record. | 0..1 | Boolean |
|  | validityStatus | Validity status | Specification of validity, either explicitly overriding the validity time specification or confirming it. | 1..1 | ValidityStatusEnum |

Table 40— Attributes of the "Validity" package

* + 1. "VehicleCharacteristics" package
       1. "VehicleCharacteristics" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| GrossWeightCharacteristic | Gross weight characteristic | Gross weight characteristic of a vehicle. |  | no |
| HeaviestAxleWeightCharacteristic | Heaviest axle weight characteristic | Weight characteristic of the heaviest axle on the vehicle. |  | no |
| HeightCharacteristic | Height characteristic | Height characteristic of a vehicle. |  | no |
| LengthCharacteristic | Length characteristic | Length characteristic of a vehicle. |  | no |
| NumberOfAxlesCharacteristic | Number of axles characteristic | Number of axles characteristic of a vehicle. |  | no |
| VehicleCharacteristics | Vehicle characteristics | The characteristics of a vehicle, e.g. lorry of gross weight greater than 30 tonnes. |  | no |
| WidthCharacteristic | Width characteristic | Width characteristic of a vehicle. |  | no |

Table 41— Classes of the "VehicleCharacteristics" package

* + - 1. "VehicleCharacteristics" package association roles

There are no defined association roles in the "VehicleCharacteristics" package.

* + - 1. "VehicleCharacteristics" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| GrossWeightCharacteristic | comparisonOperator | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
|  | grossVehicleWeight | Gross vehicle weight | The gross weight of the vehicle and its load, including any trailers. | 1..1 | Tonnes |
| HeaviestAxleWeightCharacteristic | comparisonOperator | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
|  | heaviestAxleWeight | Heaviest axle weight | The weight of the heaviest axle on the vehicle. | 1..1 | Tonnes |
| HeightCharacteristic | comparisonOperator | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
|  | vehicleHeight | Vehicle height | The height of the highest part, excluding antennae, of an individual vehicle above the road surface, in metres. | 1..1 | MetresAsFloat |
| LengthCharacteristic | comparisonOperator | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
|  | vehicleLength | Vehicle length | The overall distance between the front and back of an individual vehicle, including the length of any trailers, couplings, etc. | 1..1 | MetresAsFloat |
| NumberOfAxlesCharacteristic | comparisonOperator | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
|  | numberOfAxles | Number of axles | The total number of axles of an individual vehicle. | 1..1 | NonNegativeInteger |
| VehicleCharacteristics | fuelType | Fuel type | The type of fuel used by the vehicle. | 0..1 | FuelTypeEnum |
|  | loadType | Load type | The type of load carried by the vehicle, especially in respect of hazardous loads. | 0..1 | LoadTypeEnum |
|  | vehicleEquipment | Vehicle equipment | The type of equipment in use or on board the vehicle. | 0..1 | VehicleEquipmentEnum |
|  | vehicleType | Vehicle type | Vehicle type. | 0..\* | VehicleTypeEnum |
| WidthCharacteristic | comparisonOperator | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
|  | vehicleWidth | Vehicle width | The maximum width of an individual vehicle, in metres. | 1..1 | MetresAsFloat |

Table 42— Attributes of the "VehicleCharacteristics" package

* + 1. "VehicleCharacteristicsExtension" package
       1. "VehicleCharacteristicsExtension" package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| VehicleCharacteristicsExtended | Vehicle characteristics extended | Extension point for 'VehicleCharacteristics' to support additional attributes and literals like additional fuel types, load types etc. |  | no |

Table 43— Classes of the "VehicleCharacteristicsExtension" package

* + - 1. "VehicleCharacteristicsExtension" package association roles

There are no defined association roles in the "VehicleCharacteristicsExtension" package.

* + - 1. "VehicleCharacteristicsExtension" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| VehicleCharacteristicsExtended | loadType2 | Load type2 | Loads currently not supported in 'LoadTypeEnum'. | 0..1 | LoadType2Enum |
|  | vehicleType2 | Vehicle type2 | Vehicle types currently not supported in 'VehicleTypeEnum'. | 0..1 | VehicleType2Enum |

Table 44— Attributes of the "VehicleCharacteristicsExtension" package

* 1. Data Dictionary of <<datatypes>> for "ASFINAG Rest Areas - Static Part"

This clause contains the definitions of all data types which are used in the "ASFINAG Rest Areas - Static Part".

* + 1. The <<datatype>> "AmountOfMoney"

A monetary value expressed to two decimal places.

* + 1. The <<datatype>> "Ampere"

Ampere.

* + 1. The <<datatype>> "IndexReference"

A reference to an object given by its index qualifier.

* + 1. The <<datatype>> "MetresAsFloat"

A measure of distance defined in metres in a floating point format.

* + 1. The <<datatype>> "MetresAsNonNegativeInteger"

A measure of distance defined in metres in a non negative integer format.

* + 1. The <<datatype>> "Seconds"

Seconds.

* + 1. The <<datatype>> "SquareMetres"

Square metres.

* + 1. The <<datatype>> "Tonnes"

A measure of weight defined in metric tonnes.

* + 1. The <<datatype>> "Volt"

Volt.

* 1. Data Dictionary of <<enumerations>> for "ASFINAG Rest Areas - Static Part"

This clause contains the definitions of all enumerations which are used in the "ASFINAG Rest Areas - Static Part".

* + 1. The <<enumeration>> "AccessCategoryEnum"

Specifies the category of the access.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| emergencyExit | Emergency exit | An exit that can be used by pedestrians in case of emergency (i.e. among others easy to access and signed). |
| other | Other | Other. |
| pedestrianEntrance | Pedestrian entrance | An entrance for pedestrian. |
| pedestrianEntranceAndExit | Pedestrian entrance and exit | An entrance and exit for pedestrian. |
| pedestrianExit | Pedestrian exit | An exit for pedestrian. |
| unknown | Unknown | Unknown. |
| unspecified | Unspecified | The category of this access is not specified any further. |
| vehicleEntrance | Vehicle entrance | An entrance for vehicles. |
| vehicleEntranceAndExit | Vehicle entrance and exit | An entrance and exit for vehicles. |
| vehicleExit | Vehicle exit | An exit for vehicles. |

Table 45— Values contained in the enumeration "AccessCategoryEnum"

* + 1. The <<enumeration>> "AccessEquipmentEnum"

Specifies additional equipment for this access.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| barrier | Barrier | There is a barrier on this entrance or exit. Usually access is granted through tickets, buttons or electronic systems. |
| other | Other | Other. |
| payAndExitMachine | Pay and exit machine | A machine at this exit enables payment directly by inserting a payment or identity card. |
| ticketButtonMachine | Ticket button machine | A machine at this entrance provides a parking ticket by pressing a button. |
| ticketCardMachine | Ticket card machine | A machine at this entrance provides a parking ticket by inserting some payment or identity card. |
| trafficSignal | Traffic signal | There is a traffic signal installation controlling this access. |

Table 46— Values contained in the enumeration "AccessEquipmentEnum"

* + 1. The <<enumeration>> "AccessibilityEnum"

Special forms of accessibility, easements and marking for handicapped people.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| barrierFreeAccessible | Barrier free accessible | Accessible without any steps or other barriers. This is not as strong as handicappedAccessible. |
| handicappedAccessible | Handicapped accessible | Accessible for handicapped people. Wheelchair accessible is a special form of it. |
| handicappedEasements | Handicapped easements | There are special easements for handicapped people, like handrails or handicapped-friendly furniture. |
| handicappedMarked | Handicapped marked | There is a visible mark for the privilege of handicapped or disabled people (e.g. a wheelchair symbol). |
| none | None | No form of special accessibility, i.e. usually not convenient for handicapped people, e.g. because of steps or barriers. |
| orientationSystemForBlindPeople | Orientation system for blind people | There is some orientation system, which helps blind or visually impaired people. Examples might be some acoustic system or tactile paving. |
| other | Other | Other. |
| unknown | Unknown | It is unknown, whether there is a special form of accessibility. |
| wheelChairAccessible | Wheel chair accessible | Accessible by people in a wheelchair. |

Table 47— Values contained in the enumeration "AccessibilityEnum"

* + 1. The <<enumeration>> "AvailabilityEnum"

An enumeration which states if something is available or not.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| available | Available | The element in question is available. |
| notAvailable | Not available | The element in question is not available. |
| unknown | Unknown | There is no information about whether the element in question is available or not. |

Table 48— Values contained in the enumeration "AvailabilityEnum"

* + 1. The <<enumeration>> "ChargeTypeEnum"

Charge type

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| additionalIntervalPrice | Additional interval price | Price for all intervals following the first interval. |
| firstIntervalPrice | First interval price | Price for the first interval, e.g. the first hour. See also 'additional'. |
| flat | Flat | Flat fee. |
| freeParking | Free parking | Free Parking. Set charge to 0. |
| maximum | Maximum | Maximum price for the given interval. |
| minimum | Minimum | Minimum price for the given interval. |
| other | Other | Other. |
| seasonTicket | Season ticket | Season ticket. |
| temporaryPrice | Temporary price | Temporary price. |
| unknown | Unknown | Unknown. |

Table 49— Values contained in the enumeration "ChargeTypeEnum"

* + 1. The <<enumeration>> "ChargingStationUsageTypeEnum"

Type of usage for electric charging station(s).

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| electricalDevices | Electrical devices | Provides a plug for electrical devices (e.g. shaver, mobile phones, hair dryer, ...) |
| electricBikeOrMotorcycle | Electric bike or motorcycle | Charging of E-Bikes or E-Motorcycles. |
| electricVehicle | Electric vehicle | Charging of electric vehicles. |
| lorryPowerConsumption | Lorry power consumption | Supply for lorries with power consumption, e.g. for refrigerated goods transports. |
| motorhomeOrCaravanSupply | Motorhome or caravan supply | Supply for motorhomes or caravans. |
| other | Other | Other usage for the electric charging stations. |

Table 50— Values contained in the enumeration "ChargingStationUsageTypeEnum"

* + 1. The <<enumeration>> "ComparisonOperatorEnum"

Logical comparison operations.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| equalTo | Equal to | Logical comparison operator of "equal to". |
| greaterThan | Greater than | Logical comparison operator of "greater than". |
| greaterThanOrEqualTo | Greater than or equal to | Logical comparison operator of "greater than or equal to". |
| lessThan | Less than | Logical comparison operator of "less than". |
| lessThanOrEqualTo | Less than or equal to | Logical comparison operator of "less than or equal to". |

Table 51— Values contained in the enumeration "ComparisonOperatorEnum"

* + 1. The <<enumeration>> "CountryEnum"

List of countries.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| at | at | Austria |
| be | be | Belgium |
| bg | bg | Bulgaria |
| ch | ch | Switzerland |
| cs | cs | Serbia and Montenegro |
| cy | cy | Cyprus |
| cz | cz | Czech Republic |
| de | de | Germany |
| dk | dk | Denmark |
| ee | ee | Estonia |
| es | es | Spain |
| fi | fi | Finland |
| fo | fo | Faroe Islands |
| fr | fr | France |
| gb | gb | Great Britain |
| gg | gg | Guernsey |
| gi | gi | Gibraltar |
| gr | gr | Greece |
| hr | hr | Croatia |
| hu | hu | Hungary |
| ie | ie | Ireland |
| im | im | Isle Of Man |
| is | is | Iceland |
| it | it | Italy |
| je | je | Jersey |
| li | li | Lichtenstein |
| lt | lt | Lithuania |
| lu | lu | Luxembourg |
| lv | lv | Latvia |
| ma | ma | Morocco |
| mc | mc | Monaco |
| mk | mk | Macedonia |
| mt | mt | Malta |
| nl | nl | Netherlands |
| no | no | Norway |
| other | other | Other than as defined in this enumeration. |
| pl | pl | Poland |
| pt | pt | Portugal |
| ro | ro | Romania |
| se | se | Sweden |
| si | si | Slovenia |
| sk | sk | Slovakia |
| sm | sm | San Marino |
| tr | tr | Turkey |
| va | va | Vatican City State |

Table 52— Values contained in the enumeration "CountryEnum"

* + 1. The <<enumeration>> "CurrencyEnum"

Three letter code defining the currency according to ISO 4217 (e.g. EUR for Euro). This enumeration only contains European currencies including the US dollar.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| all | All | Lek (Albania) |
| amd | Amd | Armeniam Dram |
| azn | Azn | Azerbaijanian Manat |
| bam | Bam | Convertible Mark (Bosnia and Herzogowina) |
| bgn | Bgn | Bulgarian Lev |
| byr | Byr | Belarussian Ruble |
| chf | Chf | Swiss Franc |
| czk | Czk | Czech Koruna |
| dkk | Dkk | Danish Krone |
| eur | Eur | Euro |
| gbp | Gbp | Pound Sterling |
| gel | Gel | Lari (Georgia) |
| hrk | Hrk | Croatian Kuna |
| huf | Huf | Forint (Hungary) |
| isk | Isk | Iceland Krona |
| ltl | Ltl | Litas (Lithuania) |
| mdl | Mdl | Moldovan Leu |
| mkd | Mkd | Denar |
| nok | Nok | Norwegian Krone |
| other | Other | Another currency. |
| pln | Pln | Zloty |
| ron | Ron | New Romanian Leu |
| rsd | Rsd | Serbian Dinar |
| rub | Rub | Russian Ruble |
| sek | Sek | Swedish Krona |
| try | Try | Turkish Lira |
| uah | Uah | Hryvnia (Ukraine) |
| usd | Usd | US Dollar |

Table 53— Values contained in the enumeration "CurrencyEnum"

* + 1. The <<enumeration>> "DayEnum"

Days of the week.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| friday | Friday | Friday. |
| monday | Monday | Monday. |
| saturday | Saturday | Saturday. |
| sunday | Sunday | Sunday. |
| thursday | Thursday | Thursday. |
| tuesday | Tuesday | Tuesday. |
| wednesday | Wednesday | Wednesday. |

Table 54— Values contained in the enumeration "DayEnum"

* + 1. The <<enumeration>> "DirectionEnum"

List of directions of travel.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| allDirections | All directions | All directions (where more than two are applicable) at this point on the road network. |
| anticlockwise | Anticlockwise | Anti-clockwise. |
| bothWays | Both ways | Both directions that are applicable at this point on the road network. |
| clockwise | Clockwise | Clockwise. |
| eastBound | East bound | East bound general direction. |
| inboundTowardsTown | Inbound towards town | Heading towards town centre direction of travel. |
| innerRing | Inner ring | Inner ring direction. |
| northBound | North bound | North bound general direction. |
| northEastBound | North east bound | North east bound general direction. |
| northWestBound | North west bound | North west bound general direction. |
| opposite | Opposite | Opposite direction to the normal direction of flow at this point on the road network. |
| other | Other | Other than as defined in this enumeration. |
| outboundFromTown | Outbound from town | Heading out of or away from the town centre direction of travel. |
| outerRing | Outer ring | Outer ring direction. |
| southBound | South bound | South bound general direction. |
| southEastBound | South east bound | South east bound general direction. |
| southWestBound | South west bound | South west bound general direction. |
| unknown | Unknown | Direction is unknown. |
| westBound | West bound | West bound general direction. |

Table 55— Values contained in the enumeration "DirectionEnum"

* + 1. The <<enumeration>> "EquipmentTypeEnum"

Equipment available on the parking or parking space or grouped parking spaces.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| bikeParking | Bike parking | Bike parking. |
| cashMachine | Cash machine | Cash machine. |
| copyMachineOrService | Copy machine or service | A possibility to create copies of documents. |
| defibrillator | Defibrillator | Medical equipment to provide first aid after heart attacks. |
| dumpingStation | Dumping station | Possibility to get rid of sewerage (especially for motorhomes). |
| electricChargingStation | Electric charging station | For charging vehicles, motorhome supply etc. The 'numberOf...' attribute specifies the number of charging stations. You may specify the number of charging points and further information with component 'ElectricCharging'. |
| elevator | Elevator | Indication of the availability of elevators. |
| faxMachineOrService | Fax machine or service | A possibility to send and/or receive faxes. |
| fireExtingiusher | Fire extingiusher | Fire extinguisher |
| fireHose | Fire hose | A hose for water transport in case of fire. |
| fireHydrant | Fire hydrant | Fire hydrant |
| firstAidEquipment | First aid equipment | Equipment to support first aid on injured people. Note that 'defibrillator' is a separate literal. |
| freshWater | Fresh water | Possibility to get fresh water (e.g. for motorhomes) - toilets and showers etc. are not intended here. |
| iceFreeScaffold | Ice free scaffold | A technical equipment to remove ice and snow from the roof of lorries. |
| informationPoint | Information point | An information point with employees. |
| informatonStele | Informaton stele | An unmanned information point. |
| internetTerminal | Internet terminal | Public internet terminal. Charges may be specified using the TariffsAndPayment section. |
| internetWireless | Internet wireless | Public wireless internet. Specifying an amount would be the number of hotspots/access points. Charges may be specified using the TariffsAndPayment section. |
| luggageLocker | Luggage locker | Possibility to deposit luggage in a safe way. |
| none | None | None. |
| other | Other | Some other equipment. Use 'otherEquipmentOrServiceFacility' to specify it. |
| payDesk | Pay desk | A possibility to pay for parking (with employees). |
| paymentMachine | Payment machine | A parking ticket machine. |
| picnicFacilities | Picnic facilities | Indication of whether any picnicking facilities, such as tables, chairs and shaded areas, are available. |
| playground | Playground | A playground for children. |
| publicCardPhone | Public card phone | Indicates, whether there's a public telephone available that can be used with a card. |
| publicCoinPhone | Public coin phone | Indicates, whether there's a public telephone available that can be used with coins. |
| publicPhone | Public phone | Indicates, whether there's a public telephone available. |
| refuseBin | Refuse bin | Refuse bins for small amounts of garbage (see also 'wasteDisposal'). |
| safeDeposit | Safe deposit | A possibility to store valuable possession in a safe way. |
| shower | Shower | Indicates, whether there are shower facilities available. |
| toilet | Toilet | Indicates, whether there are toilets available. |
| tollTerminal | Toll terminal | A terminal, where toll charges can be paid manually (this does not mean a toll gate on the road) |
| unknown | Unknown | Unknown. |
| vendingMachine | Vending machine | A vending machine for snacks, coffee etc. (without manpower). |
| wasteDisposal | Waste disposal | Possibility to get rid of waste in a legal way (e.g. for truckers or motorhomes). Normal refuse bins are not intended here. |

Table 56— Values contained in the enumeration "EquipmentTypeEnum"

* + 1. The <<enumeration>> "FuelType2Enum"

Fuel types that are currently not supported in FuelTypeEnum.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| all | All | All sort of fuel is accepted. |
| other | Other | Other. |
| petrol95Octane | Petrol95 octane | Petrol with 95 octane. |
| petrol98Octane | Petrol98 octane | Petrol with 98 octane. |
| petrolLeaded | Petrol leaded | Leaded petrol. |
| petrolUnleaded | Petrol unleaded | Unleaded petrol. |
| unknown | Unknown | The sort of fuel is not known. |

Table 57— Values contained in the enumeration "FuelType2Enum"

* + 1. The <<enumeration>> "FuelTypeEnum"

Type of fuel used by a vehicle.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| battery | Battery | Battery. |
| biodiesel | Biodiesel | Biodiesel. |
| diesel | Diesel | Diesel. |
| dieselBatteryHybrid | Diesel battery hybrid | Diesel and battery hybrid. |
| ethanol | Ethanol | Ethanol. |
| hydrogen | Hydrogen | Hydrogen. |
| liquidGas | Liquid gas | Liquid gas of any type including LPG. |
| lpg | LPG | Liquid petroleum gas. |
| methane | Methane | Methane gas. |
| petrol | Petrol | Petrol. |
| petrolBatteryHybrid | Petrol battery hybrid | Petrol and battery hybrid. |

Table 58— Values contained in the enumeration "FuelTypeEnum"

* + 1. The <<enumeration>> "GroupOfParkingSitesTypeEnum"

The type of this group of parking sites.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| aggregationOfInformation | Aggregation of information | The main purpose of this group is to give summarized information of all encapsulated parking sites (e.g. number of spaces in total). |
| truckParkingPriorityZone | Truck parking priority zone | This group is describing a truck parking priority zone according to the EU regulation. |

Table 59— Values contained in the enumeration "GroupOfParkingSitesTypeEnum"

* + 1. The <<enumeration>> "InterUrbanParkingSiteLocationEnum"

Location of the truck or motorway related parking.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| layBy | Lay by | An area along a road that offers temporary parking. |
| motorway | Motorway | The parking is located directly on a motorway or a similar type of road. |
| nearbyMotorway | Nearby motorway | The parking is located with some distance to a motorway or a similar type of road but focussed on travellers from this motorway. |
| onStreet | On street | Vehicles are parking on the roadside. |
| other | Other | The parking is located somewhere else. |

Table 60— Values contained in the enumeration "InterUrbanParkingSiteLocationEnum"

* + 1. The <<enumeration>> "JunctionClassificationEnum"

Explicit type of a junction.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| borderCrossing | Border crossing | Motorway crossing a border (between counties, countries, states, ...). |
| interchange | Interchange | Usually two crossing motorways (four legs, but can be even more). |
| junction | Junction | Entrance and exit on a motorway. |
| junctionInOneDirection | Junction in one direction | Entry and Exit on a motorway, where just one direction of the motorway is accessible. |
| motorwayConnection | Motorway connection | Beginning or end of a motorway (e.g. changeover to smaller road). |
| operationalServiceJunction | Operational service junction | Junction accessible only for operational services. |
| other | Other | Other. |
| temporaryJunction | Temporary junction | Entrance and exit on a motorway, reserved either for emergency and service or on a temporary basis. |
| threeWayInterchange | Three way interchange | One motorway merging into another (with three legs in total). |

Table 61— Values contained in the enumeration "JunctionClassificationEnum"

* + 1. The <<enumeration>> "LABELSecurityLevelEnum"

Security level defined by the LABEL project http://truckparkinglabel.eu.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| none | None | None. |
| securityLevel1 | Security level1 | Providing the basics. |
| securityLevel2 | Security level2 | Technical measures to improve security. |
| securityLevel3 | Security level3 | Security measures are combined, Access of persons restricted. |
| securityLevel4 | Security level4 | Real time monitoring of vehicles and persons by professional staff. |
| securityLevel5 | Security level5 | Verification of vehicles and persons by professional staff, site manned around the clock. |
| unknown | Unknown | Unknown. |

Table 62— Values contained in the enumeration "LABELSecurityLevelEnum"

* + 1. The <<enumeration>> "LABELServiceLevelEnum"

Service level defined by the LABEL project http://truckparkinglabel.eu.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| none | None | None. |
| serviceLevel1 | Service level1 | Providing the basics. |
| serviceLevel2 | Service level2 | Also providing washing facilities and a more convenient lay-out of the parking area. |
| serviceLevel3 | Service level3 | Providing service for personal hygiene and shop/ fuel station. |
| serviceLevel4 | Service level4 | Providing full service for driver and vehicle. |
| serviceLevel5 | Service level5 | Providing the high end of comfort levels. |
| unknown | Unknown | Unknown. |

Table 63— Values contained in the enumeration "LABELServiceLevelEnum"

* + 1. The <<enumeration>> "LoadType2Enum"

Loads that are currently not supported in loadType.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| refrigeratedGoods | Refrigerated goods | Refrigerated goods. |

Table 64— Values contained in the enumeration "LoadType2Enum"

* + 1. The <<enumeration>> "LoadTypeEnum"

Types of load carried by a vehicle.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| abnormalLoad | Abnormal load | A load that exceeds normal vehicle dimensions in terms of height, length, width, gross vehicle weight or axle weight or any combination of these. Generally termed an "abnormal load". |
| ammunition | Ammunition | Ammunition. |
| chemicals | Chemicals | Chemicals of unspecified type. |
| combustibleMaterials | Combustible materials | Combustible materials of unspecified type. |
| corrosiveMaterials | Corrosive materials | Corrosive materials of unspecified type. |
| debris | Debris | Debris of unspecified type. |
| empty | Empty | No load. |
| explosiveMaterials | Explosive materials | Explosive materials of unspecified type. |
| extraHighLoad | Extra high load | A load of exceptional height. |
| extraLongLoad | Extra long load | A load of exceptional length. |
| extraWideLoad | Extra wide load | A load of exceptional width. |
| fuel | Fuel | Fuel of unspecified type. |
| glass | Glass | Glass. |
| goods | Goods | Any goods of a commercial nature. |
| hazardousMaterials | Hazardous materials | Materials classed as being of a hazardous nature. |
| liquid | Liquid | Liquid of an unspecified nature. |
| livestock | Livestock | Livestock. |
| materials | Materials | General materials of unspecified type. |
| materialsDangerousForPeople | Materials dangerous for people | Materials classed as being of a danger to people or animals. |
| materialsDangerousForTheEnvironment | Materials dangerous for the environment | Materials classed as being potentially dangerous to the environment. |
| materialsDangerousForWater | Materials dangerous for water | Materials classed as being dangerous when exposed to water (e.g. materials which may react exothermically with water). |
| oil | Oil | Oil. |
| ordinary | Ordinary | Materials that present limited environmental or health risk. Non-combustible, non-toxic, non-corrosive. |
| other | Other | Other than as defined in this enumeration. |
| perishableProducts | Perishable products | Products or produce that will significantly degrade in quality or freshness over a short period of time. |
| petrol | Petrol | Petrol or petroleum. |
| pharmaceuticalMaterials | Pharmaceutical materials | Pharmaceutical materials. |
| radioactiveMaterials | Radioactive materials | Materials that emit significant quantities of electro-magnetic radiation that may present a risk to people, animals or the environment. |
| refuse | Refuse | Refuse. |
| toxicMaterials | Toxic materials | Materials of a toxic nature which may damage the environment or endanger public health. |
| vehicles | Vehicles | Vehicles of any type which are being transported. |

Table 65— Values contained in the enumeration "LoadTypeEnum"

* + 1. The <<enumeration>> "MeansOfPaymentEnum"

Means of payment

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| cash | Cash | Cash payment. |
| cashCoinsOnly | Cash coins only | Cash payment with coins only. |
| directCashTransfer | Direct cash transfer | Direct cash transfer. |
| electronicSettlement | Electronic settlement | Electronic settlement; includes on board units. |
| mobileApp | Mobile app | Payment method using an app on a smartphone. |
| mobilePhone | Mobile phone | A payment method using a mobile phone but without an app or SMS, for instance by calling a number. |
| other | Other | Other. |
| payBySMS | Pay by s m s | Payment by SMS. The telephone number can be specified by 'paymentAdditionalDescription'. |
| paymentCard | Payment card | Payment by electronic card(s). Use 'AcceptedPaymentCards' resp. 'UsedPaymentCard' to specify them more exactly. |
| rfid | Rfid | RFID. |
| unknown | Unknown | Unknown. |

Table 66— Values contained in the enumeration "MeansOfPaymentEnum"

* + 1. The <<enumeration>> "MonthOfYearEnum"

A list of the months of the year.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| april | April | The month of April. |
| august | August | The month of August. |
| december | December | The month of December. |
| february | February | The month of February. |
| january | January | The month of January. |
| july | July | The month of July. |
| june | June | The month of June. |
| march | March | The month of March. |
| may | May | The month of May. |
| november | November | The month of November. |
| october | October | The month of October. |
| september | September | The month of September. |

Table 67— Values contained in the enumeration "MonthOfYearEnum"

* + 1. The <<enumeration>> "OccupancyDetectionTypeEnum"

Type of parking occupancy detection (balancing, single slot, ... ).

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| balancing | Balancing | Counting and balancing incoming and outcoming traffic amount ('indirect' method). |
| manual | Manual | Manual collection of occupancy information, i.e. operators count the vehicles. |
| modelBased | Model based | Occupancy detection is based on some model, i.e. hydrograph, forecasting or estimation. |
| none | None | No occupancy detection available. |
| other | Other | Other. |
| singleSpaceDetection | Single space detection | There is a detector for every individual parking space ('direct' method). |
| unknown | Unknown | Unknown. |
| unspecified | Unspecified | Unspecified. |

Table 68— Values contained in the enumeration "OccupancyDetectionTypeEnum"

* + 1. The <<enumeration>> "OwnershipTypeEnum"

Ownership type enum.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| other | Other | Other kind of ownership. |
| private | Private | Private ownership. |
| public | Public | Public ownership. |
| publicPrivate | Public private | A public private partnership model. |
| resident | Resident | A private individual ownership. |
| unknown | Unknown | An unknown kind of ownership. |

Table 69— Values contained in the enumeration "OwnershipTypeEnum"

* + 1. The <<enumeration>> "ParkingDurationEnum"

Parking durations.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| longTerm | Long term | Long term parking in excess of any specified short term parking. |
| other | Other | Other. |
| pickUpDropOff | Pick up drop off | Very short duration parking normally of up to 20 minutes assigned for pick-ups and drop-offs. |
| shortTerm | Short term | Short term parking without indication of max-duration. |
| shortTerm24hours | Short term24hours | Short term parking up to 24 hours. |
| shortTerm48hours | Short term48hours | Short term parking up to 48 hours. |
| shortTerm72hours | Short term72hours | Short term parking up to 72 hours. |
| shortTerm96hours | Short term96hours | Short term parking up to 96 hours. |
| unknown | Unknown | Unknown. |

Table 70— Values contained in the enumeration "ParkingDurationEnum"

* + 1. The <<enumeration>> "ParkingLayoutEnum"

Types of layout of the parking site.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| automatedParkingGarage | Automated parking garage | Parking is completely automated from the point of leaving the vehicle in an arrival bay to its delivery back to the driver in a pickup bay. |
| covered | Covered | Some covered parking space. |
| field | Field | A non-bituminized parking space (e.g. for events or as extension). |
| multiStorey | Multi storey | Parking is on multiple levels within a parking building. |
| nested | Nested | A parking space within a complex structure of buildings or surrounded by buildings. |
| openSpace | Open space | A normal ground level parking place. |
| other | Other | Other. |
| singleLevel | Single level | Parking is inside a building on a single ground floor level. |
| underground | Underground | Parking is on one or more floors below ground level. |
| undergroundAndMultistorey | Underground and multistorey | Parking is on multiple floors levels including both below and above ground level. |
| unknown | Unknown | Unknown. |

Table 71— Values contained in the enumeration "ParkingLayoutEnum"

* + 1. The <<enumeration>> "ParkingModeEnum"

The arrangement of the parking space or the group of parking spaces in relation to the road.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| echelonParking | Echelon parking | Parking spaces are located in a diagonal relation to the road. |
| other | Other | Other. |
| parallelParking | Parallel parking | Parking spaces are located parallel to the road. |
| parkingOnOppositeSideOfRoad | Parking on opposite side of road | Parking is possible on the other side of the road. |
| perpendicularParking | Perpendicular parking | Parking spaces are located in an angle of nearly 90 degree to the road. |

Table 72— Values contained in the enumeration "ParkingModeEnum"

* + 1. The <<enumeration>> "ParkingPaymentModeEnum"

Mode of payment for parking.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| other | Other | Other. |
| payAndDisplay | Pay and display | Pay at machine and display ticket inside vehicle. |
| payAndExit | Pay and exit | Pay directly at the exit with a payment card (usually, this payment card must have been used when entering as well). In 'AccessEquipmentEnum', there are three more literals to indicate, whether an entrance or exit has got this feature. |
| payByPrepaidToken | Pay by prepaid token | Pay by prepaid token that is used at exit. |
| payManualAtExitBooth | Pay manual at exit booth | Pay at the manned exit booth of the parking site. |
| payPriorToExit | Pay prior to exit | Pay at machine on foot prior to returning to vehicle and use payment ticket to exit. |

Table 73— Values contained in the enumeration "ParkingPaymentModeEnum"

* + 1. The <<enumeration>> "ParkingRouteDirectionEnum"

The direction of the parking route.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| awayFromParkingSite | Away from parking site | Away from parking site. |
| towardsParkingSite | Towards parking site | Towards parking site. |

Table 74— Values contained in the enumeration "ParkingRouteDirectionEnum"

* + 1. The <<enumeration>> "ParkingRouteTypeEnum"

The type of the parking route.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| lorry | Lorry | A parking route for lorries. |
| other | Other | Another type of parking route. |

Table 75— Values contained in the enumeration "ParkingRouteTypeEnum"

* + 1. The <<enumeration>> "ParkingSecurityEnum"

Specifies security measures related to the parking site or particular spaces.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| areaSeperatedFromSurroundings | Area seperated from surroundings | Site is separated from its surroundings. Can also be used to express a space for noise-producing vehicles, e.g. lorries with cooling generators. |
| cctv | Cctv | CCTV (camera observation). |
| dog | Dog | Dog. |
| externalSecurity | External security | External security, e.g. police or staff not directly belonging to the parking. |
| fences | Fences | Fences. |
| floodLight | Flood light | Flood light (stronger than lighting). |
| guard24hours | Guard24hours | 24/24 guard. |
| lighting | Lighting | Site is illuminated in a normal way (but not as strong as 'floodLight'). |
| none | None | There are no security measures. |
| other | Other | None of the values in this enumeration applies. Use 'parkingAdditionalSecurity' instead. |
| securityStaff | Security staff | Security staff. |
| socialControl | Social control | Social control e.g. parking situated in a neighbourhood. |
| unknown | Unknown | Unknown. |

Table 76— Values contained in the enumeration "ParkingSecurityEnum"

* + 1. The <<enumeration>> "ParkingSiteStatusEnum"

The status of the parking site (spaces available or not).

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| almostFull | Almost full | The parking site is almost full (as defined by its configuration parameters). |
| full | Full | The parking site is full (as defined by its configuration parameters). |
| fullAtEntrance | Full at entrance | The parking site is considered full at its entrance (e.g. full sign is displayed at entrance or on managing VMS). |
| other | Other | Other. |
| spacesAvailable | Spaces available | Parking spaces are currently available. |
| unknown | Unknown | The status of the parking site is unknown. |

Table 77— Values contained in the enumeration "ParkingSiteStatusEnum"

* + 1. The <<enumeration>> "ParkingSpaceAccessibilityEnum"

Easements for handicapped people expecially related to a parking space or a group of parking spaces.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| bordersMarked | Borders marked | The border of the parking space is marked (painted on the ground). |
| extraSpaceLeftSide | Extra space left side | There is some extra space on the left side of the parking space (in parking direction point of view), for example to improve the situation for wheelchair users. |
| extraSpaceRightSide | Extra space right side | There is some extra space on the right side of the parking space (in parking direction point of view), for example to improve the situation for wheelchair users. |
| nearbyPedestrianExit | Nearby pedestrian exit | The parking space is quite near to a pedestrian exit. Note: Can be more exactly defined by using 'dedicatedAccess'. |
| other | Other | Other. |

Table 78— Values contained in the enumeration "ParkingSpaceAccessibilityEnum"

* + 1. The <<enumeration>> "ParkingSpacePhysicsEnum"

Specifies drive through and open air properties for the parking space or the group of parking spaces.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| driveThrough | Drive through | Entering as well as leaving the parking space can be done straight in the direction of parking. |
| openAir | Open air | There is no roof and not another storey on top of the parking space, which could prevent from rain, for example. |

Table 79— Values contained in the enumeration "ParkingSpacePhysicsEnum"

* + 1. The <<enumeration>> "ParkingSpecialLocationEnum"

Locations, often associated with a building, for a SpecialLocationParkingSite.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| airportTerminal | Airport terminal | The parking site is associated with an airport terminal. |
| cableCarStation | Cable car station | The parking site is associated with a cable car station. |
| campground | Campground | The parking site is associated with a campground. |
| cinema | Cinema | The parking site is associated with a cinema. |
| coachStation | Coach station | The parking site is associated with a coach station. |
| conventionCentre | Convention centre | The parking site is associated with a convention centre. |
| exhibitonCentre | Exhibiton centre | The parking site is associated with an exhibition centre. |
| ferryTerminal | Ferry terminal | The parking site is associated with a ferry terminal. |
| market | Market | The parking site is associated with a market. |
| other | Other | The parking site is associated with some other location. Use "parkingOtherSpecialLocation" to specify details. |
| publicTransportStation | Public transport station | The parking site is associated with a public transport station. |
| religiousCentre | Religious centre | The parking site is associated with a religious centre. |
| shoppingCentre | Shopping centre | The parking site is associated with a shopping centre. |
| skilift | Skilift | The parking site is associated with a ski lift. |
| specificFacility | Specific facility | The parking site is associated with a specific facility (e.g. a hospital, a tourist site, a garden centre, a park etc.).. Attribute "parkingOtherSpecialLocation" may be used to specify details. |
| themePark | Theme park | The parking site is associated with a theme park. |
| trainStation | Train station | The parking site is associated with a train station. |
| unknown | Unknown | Unknown. |
| vehicleOnRailTerminal | Vehicle on rail terminal | The parking site is associated with a vehicle-to-rail terminal. |

Table 80— Values contained in the enumeration "ParkingSpecialLocationEnum"

* + 1. The <<enumeration>> "ParkingSupervisionEnum"

Defines the kind of supervision of the parking site.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| controlCentreOffSite | Control centre off site | Control centre off site. |
| controlCentreOnSite | Control centre on site | Control centre on site. |
| none | None | None. |
| onSite | On site | On site. |
| other | Other | Other. |
| patrol | Patrol | Patrol. |
| remote | Remote | Remote. |
| unknown | Unknown | Unknown. |

Table 81— Values contained in the enumeration "ParkingSupervisionEnum"

* + 1. The <<enumeration>> "ParkingTypeOfGroup"

The type of group specification (group of parking spaces).

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| adjacentSpaces | Adjacent spaces | A description of adjacent spaces. |
| completeFloor | Complete floor | A description for a complete floor in a car park. |
| mixedUsage | Mixed usage | A definition for mixed usage for this group (e.g. by time). This means there are more definitions for this group or for sub- or supersets of it. |
| nonAdjacentSpaces | Non adjacent spaces | A description of non-adjacent spaces. |
| other | Other | Some other kind of group. |
| singleParameters | Single parameters | This group provides some single features for a selected number of spaces. For example, you can define all spaces, where electric charging stations are provided. It is not a complete description of the parking spaces. |
| statisticsOnly | Statistics only | This group provides statistical figures only, for example 60 spaces for lorries in total. Usually, this kind of group does not use georeference information. It is not a complete description of parking spaces. |

Table 82— Values contained in the enumeration "ParkingTypeOfGroup"

* + 1. The <<enumeration>> "ParkingUsageScenarioEnum"

Types of parking usage (park & ride, kiss & ride, ...)

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| loadingBay | Loading bay | The parking site or space(s) are designed as a loading bay. |
| other | Other | Some other usage scenario. |
| overnightParking | Overnight parking | The parking site or space(s) are designed for overnight parking. Note that the absence of this scenario does not automatically mean a prohibition of overnight parking. See also PermitsAndProhibitions. |
| restArea | Rest area | The parking site is associated with a rest area, i.e. people can relax some time outside their car there. Note that the presence of some bench, picnic place or toilet is already sufficient; there is no need for a restaurant or a building. |
| serviceArea | Service area | The parking site is associated with a service area. |
| truckParking | Truck parking | The parking site is designed for lorries (other vehicles are allowed as well). |
| unknown | Unknown | Unknown. |

Table 83— Values contained in the enumeration "ParkingUsageScenarioEnum"

* + 1. The <<enumeration>> "PaymentCardBrandsEnum"

Brands of payment cards.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| americanExpress | American express | American Express |
| cirrus | Cirrus | Cirrus |
| dinersClub | Diners club | Diners Club |
| discoverCard | Discover card | Discover Card |
| giroCard | Giro card | Girocard |
| maestro | Maestro | Maestro |
| masterCard | Master card | MasterCard |
| other | Other | Other |
| visa | Visa | Visa |
| vPay | V pay | V PAY |

Table 84— Values contained in the enumeration "PaymentCardBrandsEnum"

* + 1. The <<enumeration>> "PaymentCardTypesEnum"

Types of payment cards.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| chargeCard | Charge card | Charge card |
| creditCard | Credit card | Credit card |
| debitCard | Debit card | Debit card |
| fleetCard | Fleet card | Fleet or petrol station card. |
| other | Other | Some other type of card. |
| storedValueCard | Stored value card | Stored value card / prepaid card. |

Table 85— Values contained in the enumeration "PaymentCardTypesEnum"

* + 1. The <<enumeration>> "PermitTypeEnum"

Type of permission for parking.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| blueZonePermit | Blue zone permit | Blue zone permit. |
| careTakingPermit | Care taking permit | Permit for care taking. |
| carpoolingPermit | Carpooling permit | A permit for vehicles used for carpooling. |
| carSharingPermit | Car sharing permit | A permit for car sharing vehicles. |
| disabledPermit | Disabled permit | Permit for disabled. |
| emergencyVehiclePermit | Emergency vehicle permit | Permit for emergency vehicle. |
| employeePermit | Employee permit | Permit for employees. |
| fairPermit | Fair permit | Permit of a fair. |
| governmentPermit | Government permit | Vehicles that have an official parking permission from the appropriate (local) government. |
| maintenanceVehiclePermit | Maintenance vehicle permit | Permit for a maintenance vehicle. |
| other | Other | Some other permit. |
| residentPermit | Resident permit | Permit for a resident. |
| roadWorksPermit | Road works permit | Permit for road works. |
| specificIdentifiedVehiclePermit | Specific identified vehicle permit | A specific identified vehicle. |
| taxiPermit | Taxi permit | Permit for a taxi. |

Table 86— Values contained in the enumeration "PermitTypeEnum"

* + 1. The <<enumeration>> "PublicEventType2Enum"

Additional types for a public event.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| artEvent | Art event | Art event |
| beerFestival | Beer festival | Beer festival |
| filmFestival | Film festival | Film festival |
| fireworkDisplay | Firework display | Firework display |
| flowerEvent | Flower event | Flower event |
| foodFestival | Food festival | Food festival |
| openAirConcert | Open air concert | Open air concert |
| other | Other | Some other kind of public event. |
| soundAndLightShow | Sound and light show | Sound and light show. |
| streetFestival | Street festival | Street festival |
| theatricalEvent | Theatrical event | Theatrical event |
| unknown | Unknown | Service provider does not know at time of message generation. |
| wineFestival | Wine festival | Wine festival |

Table 87— Values contained in the enumeration "PublicEventType2Enum"

* + 1. The <<enumeration>> "PublicEventTypeEnum"

Types of public events.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| agriculturalShow | Agricultural show | Agricultural show or event which could disrupt traffic. |
| airShow | Air show | Air show or other aeronautical event which could disrupt traffic. |
| athleticsMeeting | Athletics meeting | Athletics event that could disrupt traffic. |
| ballGame | Ball game | Ball game event that could disrupt traffic. |
| baseballGame | Baseball game | Baseball game event that could disrupt traffic. |
| basketballGame | Basketball game | Basketball game event that could disrupt traffic. |
| bicycleRace | Bicycle race | Bicycle race that could disrupt traffic. |
| boatRace | Boat race | Regatta (boat race event of sailing, powerboat or rowing) that could disrupt traffic. |
| boatShow | Boat show | Boat show which could disrupt traffic. |
| boxingTournament | Boxing tournament | Boxing event that could disrupt traffic. |
| bullFight | Bull fight | Bull fighting event that could disrupt traffic. |
| ceremonialEvent | Ceremonial event | Formal or religious act, rite or ceremony that could disrupt traffic. |
| commercialEvent | Commercial event | Commercial event which could disrupt traffic. |
| concert | Concert | Concert event that could disrupt traffic. |
| cricketMatch | Cricket match | Cricket match that could disrupt traffic. |
| culturalEvent | Cultural event | Cultural event which could disrupt traffic. |
| exhibition | Exhibition | Major display or trade show which could disrupt traffic. |
| fair | Fair | Periodic (e.g. annual), often traditional, gathering for entertainment or trade promotion, which could disrupt traffic. |
| festival | Festival | Celebratory event or series of events which could disrupt traffic. |
| filmTVMaking | Film TV making | Film or TV making event which could disrupt traffic. |
| footballMatch | Football match | Football match that could disrupt traffic. |
| funfair | Funfair | Periodic (e.g. annual), often traditional, gathering for entertainment, which could disrupt traffic. |
| gardeningOrFlowerShow | Gardening or flower show | Gardening and/or flower show or event which could disrupt traffic. |
| golfTournament | Golf tournament | Golf tournament event that could disrupt traffic. |
| hockeyGame | Hockey game | Hockey game event that could disrupt traffic. |
| horseRaceMeeting | Horse race meeting | Horse race meeting that could disrupt traffic. |
| internationalSportsMeeting | International sports meeting | Large sporting event of an international nature that could disrupt traffic. |
| majorEvent | Major event | Significant organised event either on or near the roadway which could disrupt traffic. |
| marathon | Marathon | Marathon, cross-country or road running event that could disrupt traffic. |
| market | Market | Periodic (e.g. weekly) gathering for buying and selling, which could disrupt traffic. |
| match | Match | Sports match of unspecified type that could disrupt traffic. |
| motorShow | Motor show | Motor show which could disrupt traffic. |
| motorSportRaceMeeting | Motor sport race meeting | Motor sport race meeting that could disrupt traffic. |
| other | Other | Other than as defined in this enumeration. |
| parade | Parade | Formal display or organised procession which could disrupt traffic. |
| procession | Procession | An organised procession which could disrupt traffic. |
| raceMeeting | Race meeting | Race meeting (other than horse or motor sport) that could disrupt traffic. |
| rugbyMatch | Rugby match | Rugby match that could disrupt traffic. |
| severalMajorEvents | Several major events | A series of significant organised events either on or near the roadway which could disrupt traffic. |
| show | Show | Entertainment event that could disrupt traffic. |
| showJumping | Show jumping | Horse showing jumping and tournament event that could disrupt traffic. |
| sportsMeeting | Sports meeting | Sports event of unspecified type that could disrupt traffic. |
| stateOccasion | State occasion | Public ceremony or visit of national or international significance which could disrupt traffic. |
| tennisTournament | Tennis tournament | Tennis tournament that could disrupt traffic. |
| tournament | Tournament | Sporting event or series of events of unspecified type lasting more than one day which could disrupt traffic. |
| tradeFair | Trade fair | A periodic (e.g. annual), often traditional, gathering for trade promotion, which could disrupt traffic. |
| waterSportsMeeting | Water sports meeting | Water sports meeting that could disrupt traffic. |
| winterSportsMeeting | Winter sports meeting | Winter sports meeting or event (e.g. skiing, ski jumping, skating) that could disrupt traffic. |

Table 88— Values contained in the enumeration "PublicEventTypeEnum"

* + 1. The <<enumeration>> "PublicHolidayTypeEnum"

Types of public holiday.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| betweenChristmasAndNewYear | Between christmas and new year | The days between the Christmas and New Year public holidays which are not official public holidays. |
| boxingDay | Boxing day | The day following Christmas day. |
| bridgeHoliday | Bridge holiday | A day between a public holiday and the weekend. |
| christmasDayAndBoxingDay | Christmas day and boxing day | Christmas day and Boxing day (day following Christmas day). |
| christmasEve | Christmas eve | The day before Christmas day. |
| christmasHolidayPeriod | Christmas holiday period | The period between the Christmas and New Year public holidays (inclusive). |
| dayFollowingPublicHoliday | Day following public holiday | A day following a public holiday. |
| easterFridayHoliday | Easter friday holiday | Good Friday (the Friday prior to the Easter weekend). |
| easterHolidayPeriod | Easter holiday period | The period between Easter Friday and Easter Monday (inclusive). |
| easterMondayHoliday | Easter monday holiday | The Monday following the Easter weekend. |
| easterSaturday | Easter saturday | The Saturday of the Easter weekend. |
| easterSunday | Easter sunday | Easter Sunday. |
| eveOfPublicHoliday | Eve of public holiday | The day preceding a public holiday. |
| holidayPeriod | Holiday period | A holiday period. |
| inLieuOfPublicHoliday | In lieu of public holiday | A holiday in lieu of a public holiday that falls on a weekend. |
| january2ndHoliday | January2nd holiday | The 2nd of January holiday. |
| newYearsDay | New years day | New Year's day. |
| newYearsEve | New years eve | The day before New Year's day. |
| notPublicHoliday | Not public holiday | A day that is not a public holiday. |
| other | Other | None of the elements in the list. Public holiday is specified by 'publicHolidayName' instead. |
| publicHoliday | Public holiday | A public holiday in the respective country/region. |

Table 89— Values contained in the enumeration "PublicHolidayTypeEnum"

* + 1. The <<enumeration>> "RegulationEnum"

Regulation parameters for actions.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| heterogeneous | Heterogeneous | The regulation rule is quite complex and cannot be noted here. |
| onlyInsideBuildings | Only inside buildings | Only inside buildings. |
| onlyOnRequest | Only on request | Only on request (i.e. permission needed). |
| onlyOutsideBuildings | Only outside buildings | Only outside buildings. |
| other | Other | Other. |
| permitted | Permitted | Permitted. |
| permittedOnlyAtParticularTimes | Permitted only at particular times | Permitted only at particular times. |
| permittedOnlyOnParticularAreas | Permitted only on particular areas | Permitted only on particular areas (but inside the parking site ground). |
| prohibited | Prohibited | Prohibited. |
| prohibitedAtParticularTimes | Prohibited at particular times | Prohibited at particular times. |
| prohibitedOnParticularAreas | Prohibited on particular areas | Prohibited on particular areas. |
| punishable | Punishable | The action is prohibited and can be punished. |
| seasonalHeterogeneous | Seasonal heterogeneous | It depends on the season, whether the action is allowed or not. |
| unknown | Unknown | The regulation is unknown. |
| unspecified | Unspecified | There is no regulation for this action. |

Table 90— Values contained in the enumeration "RegulationEnum"

* + 1. The <<enumeration>> "ReservationTypeEnum"

Reservation type enum.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| mandatory | Mandatory | Places need to be reserved. |
| notAvailable | Not available | Places cannot be reserved. |
| optional | Optional | Places can be reserved, but must not. |
| partly | Partly | Some places can or must be reserved, others not (do not use when specifying a single parking space). |
| unknown | Unknown | Possibility of reservation is unknown, |
| unspecified | Unspecified | Possibility of reservation is not specified. |

Table 91— Values contained in the enumeration "ReservationTypeEnum"

* + 1. The <<enumeration>> "RestAreaActivityEnum"

Rest area activity enum.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| barbecue | Barbecue | Barbeque. |
| camping | Camping | Camping. |
| handlingHazardousMaterial | Handling hazardous material | Handling with hazardous material. |
| openFire | Open fire | Open fire. |
| other | Other | Other. |
| overnightParking | Overnight parking | Overnight parking. |
| picnic | Picnic | Picnic. |
| smoking | Smoking | Smoking. |

Table 92— Values contained in the enumeration "RestAreaActivityEnum"

* + 1. The <<enumeration>> "RoadTypeEnum"

Categorisation of the road type (motorway, main road, ...).

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| mainRoad | Main road | Main road. |
| motorway | Motorway | Motorway. |
| other | Other | Other. |
| trunkRoad | Trunk road | Trunk road. |

Table 93— Values contained in the enumeration "RoadTypeEnum"

* + 1. The <<enumeration>> "ServiceFacilityTypeEnum"

Service facilities available on the parking site, parking space or group of parking spaces. In distinction to equipment, a service is mostly manned.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| bikeSharing | Bike sharing | Bike Sharing. |
| cafe | Cafe | Cafe. |
| carWash | Car wash | Car wash. |
| docstop | Docstop | The site is part of the Docstop project, http://www.docstoponline.eu, which means medical assistance for professional drivers. |
| foodShopping | Food shopping | Food shopping. |
| hotel | Hotel | A hotel. |
| kiosk | Kiosk | Kiosk. |
| laundry | Laundry | A possibility for washing clothes (might also be a laundromat with coins). |
| leisureActivities | Leisure activities | There are leisure activities offered on the site or in the very near surrounding. Use the additional description attribute to give details. |
| medicalFacility | Medical facility | Medical facility. |
| motel | Motel | Hotel on the motorway or other accommodation service. |
| motorwayRestaurant | Motorway restaurant | Restaurant located on a motorway rest area. |
| motorwayRestaurantSmall | Motorway restaurant small | Smaller type of restaurant located on a motorway rest area. Might be with limited offers. |
| other | Other | Some other service facility. Use 'otherEquipmentOrServiceFacility' to specify it. |
| overnightAccommodation | Overnight accommodation | OvernightAccomodation. |
| petrolStation | Petrol station | Indicates whether it is possible to get petrol. |
| pharmacy | Pharmacy | Pharmacy. |
| police | Police | Indicates whether a police station is on site or very close. |
| restaurant | Restaurant | Restaurant. |
| restaurantSelfService | Restaurant self service | A restaurant where people arange and fetch their meal themselve, this might enclose a buffet. |
| shop | Shop | A shop of unspecified kind. |
| sparePartsShopping | Spare parts shopping | Spare parts shopping. |
| touristInformation | Tourist information | Tourist information with employees. |
| truckRepair | Truck repair | Truck repair. |
| truckWash | Truck wash | Truck wash. |
| tyreRepair | Tyre repair | A tyre repair service. |
| unknown | Unknown | Unknown. |
| vehicleMaintenance | Vehicle maintenance | Garage repair service. |

Table 94— Values contained in the enumeration "ServiceFacilityTypeEnum"

* + 1. The <<enumeration>> "SpecialDayTypeEnum"

Collection of general types of days.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| bicycleRaceDay | Bicycle race day | Day of local bicycle race. |
| bullFightDay | Bull fight day | Day of local bullfight. |
| carnivalDay | Carnival day | Day of a local carnival involving a procession along roads. |
| electionDay | Election day | Election day. |
| exhibitionDay | Exhibition day | Day of a local exhibition. |
| festivalDay | Festival day | Day of a local festival. |
| gamesDay | Games day | Day of local games (e.g. highland games in Scotland). |
| holidays | Holidays | A day within the school holidays. You can use the PublicHoliday class to specify more details. |
| horseRaceMeetingDay | Horse race meeting day | Day of a local horse race meeting. |
| huntMeetingDay | Hunt meeting day | Day of a local hunt meeting. |
| marathonRaceDay | Marathon race day | Day of local marathon race. |
| marketDay | Market day | Day of a local market. |
| motorSportRaceMeetingDay | Motor sport race meeting day | Day of a local motor sport race meeting. |
| nonWorkingDay | Non working day | A non-working day in the specific country/region. |
| other | Other | Other. |
| publicHoliday | Public holiday | Public holiday. |
| raceMeetingDay | Race meeting day | Day of a local race meeting (other than horse or motor sport). |
| regattaDay | Regatta day | Day of a local regatta. |
| schoolDay | School day | School day. |
| showDay | Show day | Day of a local show. |
| sportsMeetingDay | Sports meeting day | Day of a local sports meeting. |
| undefinedDayType | Undefined day type | UndefinedDayType |
| unknown | Unknown | Unknown. |
| workingDay | Working day | A working day in the specific country/region. |

Table 95— Values contained in the enumeration "SpecialDayTypeEnum"

* + 1. The <<enumeration>> "TruckParkingDynamicManagementEnum"

Dynamic parking mode enum.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| compactParking | Compact parking | Lorries are parking one after the other in different lanes; each lane has a dedicated time of departure (which might be displayed on a sign gantry). |
| noDynamicParkingManagement | No dynamic parking management | No dynamic parking management. |
| other | Other | Some other type of dynamic parking management. |
| queueParking | Queue parking | Lorries are parking in queues, one after the other. Each lorry must have an earlier time of departure than all the lorries behind it. |

Table 96— Values contained in the enumeration "TruckParkingDynamicManagementEnum"

* + 1. The <<enumeration>> "UrbanParkingSiteTypeEnum"

The type of an urban parking site.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| offStreetParking | Off street parking | Vehicles are parking off the road, e.g. on a parking space, a car park or some other area designed for parking. |
| onStreetParking | On street parking | Vehicles are parking on the roadside. |
| other | Other | The parking is associated with some other location. |

Table 97— Values contained in the enumeration "UrbanParkingSiteTypeEnum"

* + 1. The <<enumeration>> "UserTypeEnum"

Types of users; used for parking but also for usage of equipment and services.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| allUsers | All users | All users. |
| disabled | Disabled | Physically impaired people. |
| employees | Employees | Employees. |
| handicapped | Handicapped | Persons with deficiencies in their daily life. |
| hearingImpaired | Hearing impaired | People with difficulties to hear. |
| hotelGuests | Hotel Guests | Hotel guests. |
| men | Men | Men. |
| other | Other | Other. |
| overnightParker | Overnight parker | Overnight parker. |
| registeredDisabledUsers | Registered disabled users | Registered disabled persons. |
| reservationHolders | Reservation holders | Those who have a valid reservation for the duration of parking. |
| staff | Staff | Staff. |
| unknown | Unknown | Unknown. |
| visitors | Visitors | Visitors. |
| visuallyImpaired | Visually impaired | People with difficulties to see. |
| wheelchairUsers | Wheelchair users | Wheelchair users. |
| women | Women | Women. |

Table 98— Values contained in the enumeration "UserTypeEnum"

* + 1. The <<enumeration>> "ValidityStatusEnum"

Values of validity status that can be assigned to a described event, action or item.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| active | Active | The described event, action or item is currently active regardless of the definition of the validity time specification. |
| definedByValidityTimeSpec | Defined by validity time spec | The validity status of the described event, action or item is in accordance with the definition of the validity time specification. |
| suspended | Suspended | The described event, action or item is currently suspended, that is inactive, regardless of the definition of the validity time specification. |

Table 99— Values contained in the enumeration "ValidityStatusEnum"

* + 1. The <<enumeration>> "VehicleEquipmentEnum"

Types of vehicle equipment in use or on board.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| notUsingSnowChains | Not using snow chains | Vehicle not using snow chains. |
| notUsingSnowChainsOrTyres | Not using snow chains or tyres | Vehicle not using either snow tyres or snow chains. |
| snowChainsInUse | Snow chains in use | Vehicle using snow chains. |
| snowChainsOrTyresInUse | Snow chains or tyres in use | Vehicle using snow tyres or snow chains. |
| snowTyresInUse | Snow tyres in use | Vehicle using snow tyres. |
| withoutSnowTyresOrChainsOnBoard | Without snow tyres or chains on board | Vehicle which is not carrying on board snow tyres or chains. |

Table 100— Values contained in the enumeration "VehicleEquipmentEnum"

* + 1. The <<enumeration>> "VehicleType2Enum"

Vehicle types which are currently not supported in vehicleType.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| heavyGoodsVehicle | Heavy goods vehicle | Heavy goods vehicle |
| heavyGoodsVehicleWithTrailer | Heavy goods vehicle with trailer | Heavy goods vehicle with trailer |
| heavyHaulageVehicle | Heavy haulage vehicle | Heavy-haulage vehicle |
| largeCar | Large car | Large car |
| lightGoodsVehicle | Light goods vehicle | Light goods vehicle |
| lightGoodsVehicleWithTrailer | Light goods vehicle with trailer | Light goods vehicle with trailer |
| minibus | Minibus | Minibus |
| motorhome | Motorhome | Motorhome |
| passengerCar | Passenger car | Passenger car |
| smallCar | Small car | Small car |
| unknown | Unknown | Unknown. |

Table 101— Values contained in the enumeration "VehicleType2Enum"

* + 1. The <<enumeration>> "VehicleTypeEnum"

Types of vehicle.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| agriculturalVehicle | Agricultural vehicle | Vehicle normally used for agricultural purposes, e.g. tractor, combined harvester etc. |
| anyVehicle | Any vehicle | Vehicle of any type. |
| articulatedVehicle | Articulated vehicle | Articulated vehicle. |
| bicycle | Bicycle | Bicycle. |
| bus | Bus | Bus. |
| car | Car | Car. |
| caravan | Caravan | Caravan. |
| carOrLightVehicle | Car or light vehicle | Car or light vehicle. |
| carWithCaravan | Car with caravan | Car towing a caravan. |
| carWithTrailer | Car with trailer | Car towing a trailer. |
| constructionOrMaintenanceVehicle | Construction or maintenance vehicle | Vehicle normally used for construction or maintenance purposes, e.g. digger, excavator, bulldozer, lorry mounted crane etc. |
| fourWheelDrive | Four wheel drive | Four wheel drive vehicle. |
| highSidedVehicle | High sided vehicle | High sided vehicle. |
| lorry | Lorry | Lorry of any type. |
| moped | Moped | Moped (a two wheeled motor vehicle characterized by a small engine typically less than 50cc and by normally having pedals). |
| motorcycle | Motorcycle | Motorcycle. |
| motorcycleWithSideCar | Motorcycle with side car | Three wheeled vehicle comprising a motorcycle with an attached side car. |
| motorscooter | Motorscooter | Motorscooter (a two wheeled motor vehicle characterized by a step-through frame and small diameter wheels). |
| other | Other | Other than as defined in this enumeration. |
| tanker | Tanker | Vehicle with large tank for carrying bulk liquids. |
| threeWheeledVehicle | Three wheeled vehicle | Three wheeled vehicle of unspecified type. |
| trailer | Trailer | Trailer. |
| tram | Tram | Tram. |
| twoWheeledVehicle | Two wheeled vehicle | Two wheeled vehicle of unspecified type. |
| van | Van | Van. |
| vehicleWithCaravan | Vehicle with caravan | Vehicle (of unspecified type) towing a caravan. |
| vehicleWithCatalyticConverter | Vehicle with catalytic converter | Vehicle with catalytic converter. |
| vehicleWithoutCatalyticConverter | Vehicle without catalytic converter | Vehicle without catalytic converter. |
| vehicleWithTrailer | Vehicle with trailer | Vehicle (of unspecified type) towing a trailer. |
| withEvenNumberedRegistrationPlates | With even numbered registration plates | Vehicle with even numbered registration plate. |
| withOddNumberedRegistrationPlates | With odd numbered registration plates | Vehicle with odd numbered registration plate. |

Table 102— Values contained in the enumeration "VehicleTypeEnum"

* + 1. The <<enumeration>> "VehicleUsage2Enum"

Vehicle usage types which are currently not supported in vehicleUsageType.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| carSharing | Car sharing | Vehicles operated by a car-sharing company. |
| cityLogistics | City logistics | Vehicles that are used to deliver goods in a city area. |

Table 103— Values contained in the enumeration "VehicleUsage2Enum"

* + 1. The <<enumeration>> "VehicleUsageEnum"

Types of usage of a vehicle.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| agricultural | Agricultural | Vehicle used for agricultural purposes. |
| commercial | Commercial | Vehicle which is limited to non-private usage or public transport usage. |
| emergencyServices | Emergency services | Vehicle used by the emergency services. |
| military | Military | Vehicle used by the military. |
| nonCommercial | Non commercial | Vehicle used for non-commercial or private purposes. |
| patrol | Patrol | Vehicle used as part of a patrol service, e.g. road operator or automobile association patrol vehicle. |
| recoveryServices | Recovery services | Vehicle used to provide a recovery service. |
| roadMaintenanceOrConstruction | Road maintenance or construction | Vehicle used for road maintenance or construction work purposes. |
| roadOperator | Road operator | Vehicle used by the road operator. |
| taxi | Taxi | Vehicle used to provide an authorised taxi service. |

Table 104— Values contained in the enumeration "VehicleUsageEnum"

* + 1. The <<enumeration>> "WeekOfMonthEnum"

Weeks of the month.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| fifthWeekOfMonth | Fifth week of month | Fifth week of the month (at most only 3 days and non in February when not a leap year). |
| firstWeekOfMonth | First week of month | First week of the month. |
| fourthWeekOfMonth | Fourth week of month | Fourth week of the month. |
| secondWeekOfMonth | Second week of month | Second week of the month. |
| thirdWeekOfMonth | Third week of month | Third week of the month. |

Table 105— Values contained in the enumeration "WeekOfMonthEnum"

* 1. Alphabetical list of attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **Class name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| acceptedMeansOfPayment | TariffsAndPayment | Accepted means of payment | Method(s) by which the user can make payments. In case of 'paymentCard' use AcceptedPaymentCards to specify more details. | 0..\* | MeansOfPaymentEnum |
| accessCategory | ParkingAccess | Access category | Specifies the category(s) of this access. | 1..\* | AccessCategoryEnum |
| accessEquipment | ParkingAccess | Access equipment | Specifies additional equipment for this access. | 0..\* | AccessEquipmentEnum |
| accessibility | ParkingAccess | Accessibility | Information on accessibility, easements and marking for handicapped people. | 0..\* | AccessibilityEnum |
| accessibility | ParkingSpaceBasics | Accessibility | Information on accessibility, easements and marking for handicapped people. | 0..\* | AccessibilityEnum |
| accessibility | ParkingEquipmentOrServiceFacility | Accessibility | Information on accessibility, easements and marking for handicapped people. | 0..\* | AccessibilityEnum |
| accessName | ParkingAccess | Access name | A name of the entrance or exit. This might be an indication to the corresponding road, for example. | 0..1 | MultilingualString |
| activity | PermitsAndProhibitions | Activity | An activity, which is regulated. | 1..1 | RestAreaActivityEnum |
| additionalDescription | ParkingEquipmentOrServiceFacility | Additional description | Provides an additional description. | 0..1 | MultilingualString |
| almostFullDecreasing | ParkingThresholds | Almost full decreasing | The number of available spaces above which the state of the parking site is considered to change from 'almost full' to 'spaces available' as the parking site's occupancy decreases. Must be greater than 'almostFullIncreasing' value. | 0..1 | NonNegativeInteger |
| almostFullIncreasing | ParkingThresholds | Almost full increasing | The number of available spaces below which the state of the site is considered to change from 'spaces available' to 'almost full' as the site's occupancy increases. Must be lower or equal to 'almostFullDecreasing' and greater 'fullDecreasing'. | 0..1 | NonNegativeInteger |
| applicableDay | DayWeekMonth | Applicable day | Applicable day of the week. "All days of the week" is expressed by non-inclusion of this attribute. | 0..7 | DayEnum |
| applicableForUser | ParkingEquipmentOrServiceFacility | Applicable for user | Limitation to a set of special users. | 0..\* | UserTypeEnum |
| applicableForUser | ParkingAssignment | Applicable for user | Limitation to a set of special users. | 0..\* | UserTypeEnum |
| applicableForUser | ChargeBand | Applicable for user | Limitation to a set of special users. | 0..\* | UserTypeEnum |
| applicableMonth | DayWeekMonth | Applicable month | Applicable month of the year. "All months of the year" is expressed by non-inclusion of this attribute. | 0..12 | MonthOfYearEnum |
| applicableWeek | DayWeekMonth | Applicable week | Applicable week of the month (1 to 5). "All weeks of the month" is expressed by non-inclusion of this attribute. | 0..5 | WeekOfMonthEnum |
| areaName | NamedArea | Area name | Name of an area. | 0..1 | MultilingualString |
| availability | ParkingEquipmentOrServiceFacility | Availability | Specifies, if the element in question is available or not. Note that this is no dynamic information! | 0..1 | AvailabilityEnum |
| available24hours | OpeningTimes | Available24hours | Specifies if the availability is 24 hours a day. If omitted, this information is unknown or heterogeneous. | 0..1 | Boolean |
| available24hours | ContactDetails | Available24hours | Specifies if the availability is 24 hours a day. If omitted, this information is unknown or heterogeneous. | 0..1 | Boolean |
| certifiedSecureParking | ParkingStandardsAndSecurity | Certified secure parking | Presence of a certification for secure parking. | 0..1 | Boolean |
| charge | Charge | Charge | Charge for the specified interval (for vehicle of defined characteristics, if any specified) up to the maximum defined duration and during the defined period(s). | 1..1 | AmountOfMoney |
| chargeBandName | ChargeBand | Charge band name | Name for this charge band. | 0..1 | MultilingualString |
| chargeBandReference | ChargeBandByReference | Charge band reference | A reference to a charge band. | 1..1 | VersionedReference |
| 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 |
| chargeInterval | Charge | Charge interval | Interval for which the charge applies (e.g. charge applies for 2 hours (to specify in seconds)). If no interval is specified, the price is valid for the whole period (kind of flat fee). | 0..1 | Seconds |
| chargeOrderIndex | Charge | Charge order index | A non-unique index which forms an order for applying charges, i.e. a charge may never be applied afterwards a charge with a higher index. For same indices there is no order-restriction. You can skip charges unless their 'minIterationsOfCharge' is not > 0. | 0..1 | NonNegativeInteger |
| chargeType | Charge | Charge type | The type of charge. Day- week- month- and year-charges can be specified without this enumeration by specifying the interval. | 0..1 | ChargeTypeEnum |
| chargeTypeDescription | Charge | Charge type description | Additional description for this kind of charge type, especially if the enumeration does not fit. | 0..1 | MultilingualString |
| chargingStationConnectorType | ElectricCharging | Charging station connector type | Connector type(s) for the electric charging station(s). | 0..\* | MultilingualString |
| chargingStationModelType | ElectricCharging | Charging station model type | Model type of the electric charging station(s). Brand or company information can be specified in 'ParkingEquipmentOrServiceFacility'. For more than one type of model, use several instances of 'ParkingEquipmentOrServiceFacility'. | 0..1 | MultilingualString |
| chargingStationUsageType | ElectricCharging | Charging station usage type | Usage type of the electric charging station(s). | 1..\* | ChargingStationUsageTypeEnum |
| colourName | RGBColour | Colour name | The name of the colour. | 0..1 | MultilingualString |
| comment | ParkingEquipmentOrServiceFacility | Comment | A free text comment that can be used by the operator to convey un-coded observations/information. | 0..1 | MultilingualString |
| comparisonOperator | GrossWeightCharacteristic | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
| comparisonOperator | NumberOfAxlesCharacteristic | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
| comparisonOperator | HeaviestAxleWeightCharacteristic | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
| comparisonOperator | LengthCharacteristic | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
| comparisonOperator | HeightCharacteristic | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
| comparisonOperator | WidthCharacteristic | Comparison operator | The operator to be used in the vehicle characteristic comparison operation. | 1..1 | ComparisonOperatorEnum |
| 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 |
| contactDetailsFax | ContactDetails | Contact details fax | Fax of the contact. | 0..1 | String |
| contactDetailsHouseNumber | ContactDetails | Contact details house number | House number of the contact. Supports a multiplicity up to two, to specify lower and upper numbers. | 0..2 | String |
| contactDetailsLanguage | ContactDetails | Contact details language | Language(s) this contact is able to speak resp. understand. | 0..\* | Language |
| contactDetailsLogoUrl | ContactDetails | Contact details logo url | Url to define a logo of this contact. | 0..1 | Url |
| contactDetailsMoreInfo | ContactDetails | Contact details more info | Additional information relating to the contact. | 0..\* | MultilingualString |
| contactDetailsOwnership | ContactDetails | Contact details ownership | Information if the contact in question is a private or public institution. | 0..1 | OwnershipTypeEnum |
| contactDetailsPostcode | ContactDetails | Contact details postcode | Postcode of the contact. | 0..1 | String |
| contactDetailsResponsibility | ContactDetails | Contact details responsibility | Specification of what service or equipment the contact is responsible for. | 0..\* | MultilingualString |
| contactDetailsStreet | ContactDetails | Contact details street | Street of the contact. | 0..1 | String |
| contactDetailsTelephoneNumber | ContactDetails | Contact details telephone number | Telephone Number of contact. | 0..1 | String |
| 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 |
| 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 |
| contactPersonPosition | ContactDetails | Contact person position | The position of the contact person. | 0..1 | MultilingualString |
| contactReference | ContactByReference | Contact reference | Contact information provided by a reference. | 1..1 | VersionedReference |
| 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 |
| country | PublicHoliday | Country | ISO 3166-1 two character country code. | 1..1 | CountryEnum |
| country | NamedArea | Country | ISO 3166-1 two character country code. | 0..1 | CountryEnum |
| country | ContactDetails | Country | ISO 3166-1 two character country code. | 0..1 | CountryEnum |
| countrySubdivision | PublicHoliday | Country subdivision | ISO 3166-2 country sub-division code (up to 3 characters). | 0..1 | String |
| county | NamedArea | County | Name of a county (administrative sub-division). | 0..1 | MultilingualString |
| dateOfCertification | ParkingStandardsAndSecurity | Date of certification | Date of certification. | 0..1 | Date |
| dedicatedAccess | DedicatedAccess | Dedicated access | Specifies a reference to an access, object (i.e. an entrance, an exit or both). A Point location and further characteristics can be specified for those objects. | 1..1 | Reference |
| description | PointExtended | Description | Textual description for a point location | 0..1 | MultilingualString |
| dimensionHeight | Dimension | Dimension height | Height. | 0..1 | MetresAsFloat |
| dimensionLength | Dimension | Dimension length | Length. | 0..1 | MetresAsFloat |
| dimensionUsableArea | Dimension | Dimension usable area | The area measured in square metres, that is available for some specific purpose. | 0..1 | SquareMetres |
| dimensionWidth | Dimension | Dimension width | Width. | 0..1 | MetresAsFloat |
| distanceFromParkingSite | ServiceFacility | Distance from parking site | If the service facility is not located on the parking site itself, its distance can be specified here in metres. | 0..1 | MetresAsNonNegativeInteger |
| distanceFromParkingSpace | DedicatedAccess | Distance from parking space | Distance from this access to the parking space or group of parking spaces. Especially interesting for handicapped people on the one hand or in case of the need of changing the side of a motorway. | 0..1 | MetresAsNonNegativeInteger |
| distanceFromPrimaryRoad | ParkingSpaceBasics | Distance from primary road | Specifies the distance from the primary road in metres. Especially useful, if parking is located on a smaller type of road. | 0..1 | MetresAsNonNegativeInteger |
| distanceToThisRoad | Road | Distance to this road | Distance to the road in metres (from the calling component/object). | 0..1 | MetresAsNonNegativeInteger |
| dynamicRouteManagement | ParkingRouteDetails | Dynamic route management | Indicates that there is dynamic route management for truck parking, i.e. a management system concerning several truck parkings (including this one) along a route. | 0..1 | Boolean |
| endOfPeriod | Period | End of period | End of a period. | 0..1 | DateTime |
| entranceFull | ParkingThresholds | Entrance full | The number of available spaces below which the parking site is considered to be 'full' at its entrance (e.g. full sign is displayed at entrance or on managing VMS). | 0..1 | NonNegativeInteger |
| equipmentOrServiceFacilityIdentifier | ParkingEquipmentOrServiceFacility | Equipment or service facility identifier | An internal identifier for the equipment or service facility, e.g. an inventory number. This attribute has an unbounded multiplicity to support identifiers for multiple occurrences of this element. | 0..\* | String |
| equipmentType | Equipment | Equipment type | One type of equipment, that is available on the parking site. | 1..1 | EquipmentTypeEnum |
| freeOfCharge | TariffsAndPayment | Free of charge | No fee at all. In this case, no further elements of the tariffs structure are needed. | 0..1 | Boolean |
| fuelType | VehicleCharacteristics | Fuel type | The type of fuel used by the vehicle. | 0..1 | FuelTypeEnum |
| fullDecreasing | ParkingThresholds | Full decreasing | The number of available spaces above which the state of the parking site is considered to change from 'full' to 'almost full' as the site's occupancy decreases. Must be greater or equal to 'fullIncreasing' value and lower than 'almostFullIncreasing'. | 0..1 | NonNegativeInteger |
| fullIncreasing | ParkingThresholds | Full increasing | The number of available spaces below which the state of the parking site is considered to change from 'almost full' to 'full' as the site's occupancy increases. Must be lower than or equal to 'fullDecreasing' value. | 0..1 | NonNegativeInteger |
| genericPublicationName | GenericPublication | Generic publication name | The name of the generic publication. | 1..1 | String |
| grossVehicleWeight | GrossWeightCharacteristic | Gross vehicle weight | The gross weight of the vehicle and its load, including any trailers. | 1..1 | Tonnes |
| groupOfParkingSitesType | GroupOfParkingSites | Group of parking sites type | The type of this group of parking sites. | 0..1 | GroupOfParkingSitesTypeEnum |
| heaviestAxleWeight | HeaviestAxleWeightCharacteristic | Heaviest axle weight | The weight of the heaviest axle on the vehicle. | 1..1 | Tonnes |
| highestFloor | ParkingSite | Highest floor | Highest floor of the parking site. It is possible to have negative values here in case it is underground only. Must be higher or equal than 'lowestFloor'. | 0..1 | Integer |
| identicalToGroup | GroupOfParkingSpaces | Identical to group | Points to another instance of 'GroupOfParkingSpaces', which is identical from a local point of view. To be used when defining mixed parking areas with different time slots. | 0..\* | IndexReference |
| identicalToParkingSpace | ParkingSpace | Identical to parking space | Points to another instance of 'ParkingSpace', which is identical from a local point of view (i.e. which is the same parking space). To be used when defining mixed parking areas (with using different time slots). | 0..\* | IndexReference |
| intersectWithApplicableDays | SpecialDay | Intersect with applicable days | When true, the period is the intersection of applicable days and this special day. When false, the period is the union of applicable days and this special day.” | 1..1 | Boolean |
| interUrbanParkingSiteLocation | InterUrbanParkingSite | Inter urban parking site location | Defines whether the interurban parking site is located in or nearby a motorway context, is a layby or on-street parking. | 1..1 | InterUrbanParkingSiteLocationEnum |
| junctionClassification | Junction | Junction classification | Explicit type of junction. | 0..1 | JunctionClassificationEnum |
| junctionName | Junction | Junction name | Name of the junction. | 1..1 | MultilingualString |
| junctionName | RoadNode | Junction name | Name of the junction. | 1..1 | MultilingualString |
| junctionNumber | Junction | Junction number | Number of the junction, might also include letters (example: 23A). | 0..1 | String |
| labelSecurityLevel | ParkingStandardsAndSecurity | Label security level | Formal assessment for the security level defined by the LABEL project http://truckparkinglabel.eu. | 0..1 | LABELSecurityLevelEnum |
| labelSecurityLevelSelfAssessment | ParkingStandardsAndSecurity | Label security level self assessment | Self-assessment for the security level defined by the LABEL project http://truckparkinglabel.eu. | 0..1 | LABELSecurityLevelEnum |
| labelServiceLevel | ParkingStandardsAndSecurity | Label service level | Formal assessment for the service level defined by the LABEL project http://truckparkinglabel.eu. | 0..1 | LABELServiceLevelEnum |
| labelServiceLevelSelfAssessment | ParkingStandardsAndSecurity | Label service level self assessment | Self-assessment for the service level defined by the LABEL project http://truckparkinglabel.eu. | 0..1 | LABELServiceLevelEnum |
| lastUpdated | OpeningTimes | Last updated | The date/time at which this information was last updated. | 0..1 | DateTime |
| lastUpdated | TariffsAndPayment | Last updated | The date/time at which this information was last updated. | 0..1 | DateTime |
| loadType | VehicleCharacteristics | Load type | The type of load carried by the vehicle, especially in respect of hazardous loads. | 0..1 | LoadTypeEnum |
| loadType2 | VehicleCharacteristicsExtended | Load type2 | Loads currently not supported in 'LoadTypeEnum'. | 0..1 | LoadType2Enum |
| lowestFloor | ParkingSite | Lowest floor | Lowest floor of the parking site. Positive values may apply in case it is over ground only. Must be lower or equal than 'highestFloor'. | 0..1 | Integer |
| maximumCurrent | ElectricCharging | Maximum current | The maximum current of the electric charging station(s) (in Ampere). | 0..1 | Ampere |
| maximumDuration | ChargeBand | Maximum duration | The maximum duration (e.g. of parking) for which the specified charge is applicable. | 0..1 | Seconds |
| maximumParkingDuration | ParkingRecord | Maximum parking duration | The maximum parking duration for a parking record, a parking space or a group of parking spaces (e.g. to avoid overnight parking). | 0..1 | Seconds |
| maximumParkingDuration | ParkingSpaceBasics | Maximum parking duration | The maximum parking duration for a parking record, a parking space or a group of parking spaces (e.g. to avoid overnight parking). | 0..1 | Seconds |
| maxIterationsOfCharge | Charge | Max iterations of charge | This charge must not be applied more often within this charge band than specified in this attribute. Thus it is possible to specify the first hour for free, for example. | 0..1 | NonNegativeInteger |
| minIterationsOfCharge | Charge | Min iterations of charge | This charge must be applied within this charge band at least as often as specified in this attribute. Thus it is possible to specify the first hour in an expensive manner, for example. | 0..1 | NonNegativeInteger |
| nameOfRoad | Road | Name of road | The name of the road. | 0..1 | MultilingualString |
| nameOrBrand | ParkingEquipmentOrServiceFacility | Name or brand | Name or brand of the equipment or service facility, e.g. brand of petrol station, name of the WC-Service etc. | 0..1 | MultilingualString |
| nation | NamedArea | Nation | Name of a nation (e.g. Wales) which is a sub-division of an ISO recognised country. | 0..1 | MultilingualString |
| numberOfAxles | NumberOfAxlesCharacteristic | Number of axles | The total number of axles of an individual vehicle. | 1..1 | NonNegativeInteger |
| numberOfChargingPoints | ElectricCharging | Number of charging points | Number of vehicles or devices, which can be charged simultaneously (sum over all electric charing stations specified with the 'numberOf...' attribute). If omitted, 1 charging point per station is assumed. | 0..1 | NonNegativeInteger |
| numberOfEquipmentOrServiceFacility | ParkingEquipmentOrServiceFacility | Number of equipment or service facility | Number of the specified element (e.g. number of toilets, restaurants, park & ride places, etc.) with respect to user restriction for the parking record, a complete group of spaces or a single space. Dynamic overridable. | 0..1 | NonNegativeInteger |
| numberOfSubitems | ServiceFacility | Number of subitems | The quantity of sub items to this service facility type, e.g. the total number of restaurant places or fuel dispensers etc. | 0..1 | NonNegativeInteger |
| openAllYear | OpeningTimes | Open all year | indicates whether the parking facility is available 365 days a year | 0..1 | Boolean |
| openingTimesNotSpecified | OpeningTimes | Opening times not specified | When true, the opening times are not specified. | 0..1 | Boolean |
| openingTimesUnknown | OpeningTimes | Opening times unknown | When true, the opening times are unknown. | 0..1 | Boolean |
| 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 |
| otherPaymentCardBrands | AcceptedPaymentCards | Other payment card brands | Further accepted brands of payment cards. | 0..\* | String |
| otherPaymentCards | AcceptedPaymentCards | Other payment cards | Further accepted payment cards. | 0..\* | String |
| overallEndTime | OverallPeriod | Overall end time | End of bounding period of validity defined by date and time. | 0..1 | DateTime |
| overallStartTime | OverallPeriod | Overall start time | Start of bounding period of validity defined by date and time. | 1..1 | DateTime |
| overcrowding | ParkingThresholds | Overcrowding | The number of vehicles on the parking above which the overcrowding state of the parking site is considered to change to 'overcrowding'. Can be used as an alternative to the overcrowding level attributes. | 0..1 | NonNegativeInteger |
| overcrowdingLevel1 | ParkingThresholds | Overcrowding level1 | The number of vehicles on the parking site above which the overcrowding state of the parking site is considered to change from 'noOvercrowding' to 'overcrowdingLevel1'. Must be lower than the 'overcrowdingLevel2' value. | 0..1 | NonNegativeInteger |
| overcrowdingLevel2 | ParkingThresholds | Overcrowding level2 | The number of vehicles on the parking site above which the overcrowding state of the parking site is considered to change from 'overcrowdingLevel1' to 'overcrowdingLevel2'. Must be greater than the 'overcrowdingLevel1' value. | 0..1 | NonNegativeInteger |
| overrunning | Validity | Overrunning | The activity or action described by the SituationRecord is still in progress, overrunning its planned duration as indicated in a previous version of this record. | 0..1 | Boolean |
| parkingAdditionalSecurity | ParkingStandardsAndSecurity | Parking additional security | Security equipment of the parking site that is not covered by the enumeration 'ParkingSecurityEnum'. | 0..\* | MultilingualString |
| parkingAlias | ParkingRecord | Parking alias | Alternative name for the parking site or the group of parking sites. | 0..\* | MultilingualString |
| parkingDescription | ParkingRecord | Parking description | Additional description of the parking site or the group of parking sites. | 0..1 | MultilingualString |
| parkingDuration | ParkingAssignment | Parking duration | Temporal parking classification for this assignment (long term, short term, ...). Depending on the used role, these classifications are either assigned or prohibited. | 0..\* | ParkingDurationEnum |
| parkingFloorOrLevel | ParkingSpaceBasics | Parking floor or level | The floor or level of the parking site on which the assigned parking spaces are located. | 0..1 | Integer |
| parkingLastMaximumOccupancy | ParkingThresholds | Parking last maximum occupancy | The last known occupancy (number of parking vehicles on the site) under safe conditions. | 0..1 | NonNegativeInteger |
| parkingLayout | ParkingSite | Parking layout | Layout of the parking site. | 0..\* | ParkingLayoutEnum |
| parkingMode | ParkingSpaceBasics | Parking mode | The arrangement of the parking space or the group of parking spaces in relation to the road. | 0..1 | ParkingModeEnum |
| parkingName | ParkingRecord | Parking name | Name of the parking, i.e. name of the parking site or the group of parking sites. | 1..1 | MultilingualString |
| parkingNumberOfSpaces | ParkingRecord | Parking number of spaces | Number of parking spaces (attribute is used for a parking record as well as for a group of parking spaces). | 0..1 | NonNegativeInteger |
| parkingNumberOfSpaces | GroupOfParkingSpaces | Parking number of spaces | Number of parking spaces (attribute is used for a parking record as well as for a group of parking spaces). | 1..1 | NonNegativeInteger |
| parkingOccupanyDetectionType | ParkingRecord | Parking occupany detection type | Type of parking occupancy detection for a parking record, a parking space or a group of parking spaces, if any (balancing, single slot, ... ). | 0..\* | OccupancyDetectionTypeEnum |
| parkingOccupanyDetectionType | ParkingSpaceBasics | Parking occupany detection type | Type of parking occupancy detection for a parking record, a parking space or a group of parking spaces, if any (balancing, single slot, ... ). | 0..\* | OccupancyDetectionTypeEnum |
| parkingOtherSpecialLocation | SpecialLocationParkingSite | Parking other special location | A special location not available in the enumeration. Use literal 'other' in this case. | 0..1 | MultilingualString |
| parkingPermitIdentifier | ParkingPermit | Parking permit identifier | Identifier of permission for parking. | 0..1 | String |
| parkingPermitScheme | ParkingPermit | Parking permit scheme | Scheme of permission for parking. | 0..1 | String |
| parkingPermitType | ParkingPermit | Parking permit type | Type of permission for parking. | 1..1 | PermitTypeEnum |
| parkingPrincipalNumberOfSpaces | ParkingRecord | Parking principal number of spaces | Number of parking spaces that are not assigned for a particular purpose. | 0..1 | NonNegativeInteger |
| parkingRecordVersionTime | ParkingRecord | Parking record version time | Date/time that this version of the parking record was defined. | 1..1 | DateTime |
| parkingReservation | ParkingSite | Parking reservation | Indication of whether a parking reservation service is available and/or mandatory. | 0..1 | ReservationTypeEnum |
| parkingReservation | ParkingSpaceBasics | Parking reservation | Indication of whether a parking reservation service is available and/or mandatory. | 0..1 | ReservationTypeEnum |
| parkingRouteDirection | ParkingRouteDetails | Parking route direction | The direction of traffic, for which the parking route can be used. If not specified, the route can be used in the order of the given locations. | 0..1 | DirectionEnum |
| parkingRouteDirection2 | ParkingRouteDetails | Parking route direction2 | Additional directions of traffic, for which the parking route can be used. If not specified, the route can be used in the order of the given locations. | 0..1 | ParkingRouteDirectionEnum |
| parkingRouteIconIndex | ParkingRouteDetails | Parking route icon index | An index, which can identify some icon for visualisation of the route. Note that form and usage of this index as well as the icons itself are not further determined here. | 0..1 | String |
| parkingRouteName | ParkingRouteDetails | Parking route name | Name of the parking route. | 0..1 | MultilingualString |
| parkingRouteReference | ParkingRouteByReference | Parking route reference | A reference to a parking route. | 1..1 | VersionedReference |
| parkingRouteType | ParkingRouteDetails | Parking route type | The type of parking route. If not specified, the route is designed for any type of vehicles. | 0..1 | ParkingRouteTypeEnum |
| parkingSecurity | ParkingSpaceBasics | Parking security | Specifies security measures related to the parking site or particular spaces. | 1..\* | ParkingSecurityEnum |
| parkingSecurity | ParkingStandardsAndSecurity | Parking security | Specifies security measures related to the parking site or particular spaces. | 0..\* | ParkingSecurityEnum |
| parkingSecurityNationalClassification | ParkingStandardsAndSecurity | Parking security national classification | A national classification of the parking security. | 0..1 | MultilingualString |
| parkingSiteByReference | GroupOfParkingSites | Parking site by reference | Parking sites of this collection defined by reference. | 0..\* | VersionedReference |
| parkingSiteStatus | ParkingStatusColourMapping | Parking site status | The status of the parking site (spaces available or not). | 1..1 | ParkingSiteStatusEnum |
| parkingSpaceAccessibility | ParkingSpaceBasics | Parking space accessibility | Further easements for handicapped people related to this parking space or this group of parking spaces. | 0..\* | ParkingSpaceAccessibilityEnum |
| parkingSpaceOrGroupIdentifier | ParkingSpaceBasics | Parking space or group identifier | A public identifier or short description for the parking space or group of parking spaces, for example "6D" or "Truck parking west". | 0..1 | MultilingualString |
| parkingSpacePhysics | ParkingSpaceBasics | Parking space physics | Specifies 'driveThrough' or 'openAir' for the parking space or the group of parking spaces. | 0..2 | ParkingSpacePhysicsEnum |
| parkingSpecialLocation | SpecialLocationParkingSite | Parking special location | The special location of the parking site. | 1..1 | ParkingSpecialLocationEnum |
| parkingSupervision | ParkingStandardsAndSecurity | Parking supervision | Defines the kind of supervision of the parking site. | 0..\* | ParkingSupervisionEnum |
| parkingTableName | ParkingTable | Parking table name | The name of the parking table. | 0..1 | MultilingualString |
| parkingTableVersionTime | ParkingTable | Parking table version time | The date/time that this version of the parking table was defined by the supplier. The identity and version of the table are defined by the class stereotype implementation. | 1..1 | DateTime |
| parkingTypeOfGroup | GroupOfParkingSpaces | Parking type of group | Defines the type of this group specification. | 1..1 | ParkingTypeOfGroup |
| parkingUsageScenario | ParkingUsageScenario | Parking usage scenario | A special type of usage available for the parking site or a group of parking spaces. In the 'ParkingStatusPublication', the operation type (in operation or not) can be defined. | 1..1 | ParkingUsageScenarioEnum |
| parkingZone | UrbanParkingSite | Parking zone | Name or identifier of a parking zone this parking site belongs to. To be filled with the string value 'True', if there is a parking zone with unknown name. | 0..1 | MultilingualString |
| paymentAdditionalDescription | TariffsAndPayment | Payment additional description | Additional description, for instance instructions or telephone number for paying by SMS. | 0..1 | MultilingualString |
| paymentCardBrands | AcceptedPaymentCards | Payment card brands | List of accepted brands for payment cards. | 0..\* | PaymentCardBrandsEnum |
| paymentCards | AcceptedPaymentCards | Payment cards | List of accepted payment cards. | 1..\* | PaymentCardTypesEnum |
| paymentMode | TariffsAndPayment | Payment mode | Modes how to realize the payment ('payAndDisplay', 'payByPrepaidToken', ...). | 0..\* | ParkingPaymentModeEnum |
| periodName | Period | Period name | The name of the period. | 0..1 | MultilingualString |
| photoUrl | ParkingAccess | Photo url | Specifies a URL at which a photo of the object in concern can be found. | 0..1 | Url |
| photoUrl | ParkingEquipmentOrServiceFacility | Photo url | Specifies a URL at which a photo of the object in concern can be found. | 0..1 | Url |
| photoUrl | ParkingRecord | Photo url | Specifies a URL at which a photo of the object in concern can be found. | 0..1 | Url |
| policeForceControlArea | NamedArea | Police force control area | Name of a police force area. | 0..1 | MultilingualString |
| publicHolidayName | PublicHoliday | Public holiday name | Specification of public holiday, if the enumeration values do not fit. | 0..1 | MultilingualString |
| publicHolidayType | PublicHoliday | Public holiday type | Specifies the public holiday type for the country or region. | 1..1 | PublicHolidayTypeEnum |
| publishingAgreement | ContactDetails | Publishing agreement | Indication, whether the contact accepted publishing its contact information. | 0..1 | Boolean |
| realSubsetOfGroup | GroupOfParkingSpaces | Real subset of group | Points to another instance of 'GroupOfParkingSpaces', which is a real superset from a local point of view. To be used when defining mixed parking areas with different time slots. | 0..\* | IndexReference |
| region | PublicHoliday | Region | Region of country (e.g. "Scotland", "Wales" etc. if country = GB) | 0..1 | MultilingualString |
| regulation | PermitsAndProhibitions | Regulation | Regulation for the specified activity. | 1..1 | RegulationEnum |
| reservationFee | TariffsAndPayment | Reservation fee | A fee for reservation, if this is uniform for all situations. Can also be 0 to indicate free reservations. This attribute does not indicate if reservation is available at all and/or mandatory. | 0..1 | AmountOfMoney |
| rgbBlueValue | RGBColour | Rgb blue value | The blue value of the RGB colour (0..255). | 1..1 | NonNegativeInteger |
| rgbGreenValue | RGBColour | Rgb green value | The green value of the RGB colour (0..255). | 1..1 | NonNegativeInteger |
| rgbRedValue | RGBColour | Rgb red value | The red value of the RGB colour (0..255). | 1..1 | NonNegativeInteger |
| 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..\* | MultilingualString |
| roadIdentifier | Road | Road identifier | Identifier/number of the road. | 1..1 | MultilingualString |
| roadOperatorControlArea | NamedArea | Road operator control area | Name of a road operator control area. | 0..1 | MultilingualString |
| roadOrigination | Road | Road origination | Name of some city, area, compass direction or other identification this road comes from. | 0..\* | MultilingualString |
| sectionName | PolygonArea | Section name | Name of the polygon area. Especially useful when the area consists of more than one polygon. | 0..1 | MultilingualString |
| serviceFacilityType | ServiceFacility | Service facility type | One type of service, that is available on the parking site. | 1..1 | ServiceFacilityTypeEnum |
| specialDayName | SpecialDay | Special day name | Specification of a special day, if the enumeration values do not fit. | 0..1 | MultilingualString |
| specialDayType | SpecialDay | Special day type | Specification of a special day, for example schoolDay, electionDay, .. . | 1..1 | SpecialDayTypeEnum |
| startOfPeriod | Period | Start of period | Start of period. | 0..1 | DateTime |
| temporaryParking | ParkingSite | Temporary parking | Indicates that the parking site is on a temporary basis. It might close permanently within short notice or might only be partial equipped. The physical parking possibilities might be provisional, too. | 0..1 | Boolean |
| truckParkingDynamicManagement | ParkingUsageScenario | Truck parking dynamic management | Two modes for parking lorries in a efficient way according to their departure times. May only be used for parking scenario 'truckParking'. | 0..\* | TruckParkingDynamicManagementEnum |
| typeOfRoad | Road | Type of road | Type of the road. | 0..1 | RoadTypeEnum |
| urbanParkingSiteType | UrbanParkingSite | Urban parking site type | The type of urban parking site. | 1..1 | UrbanParkingSiteTypeEnum |
| urlLinkAddress | OpeningTimes | 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 |
| urlLinkAddress | ParkingRecord | 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 |
| 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 |
| urlLinkAddress | ContactDetails | 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 |
| validityStatus | Validity | Validity status | Specification of validity, either explicitly overriding the validity time specification or confirming it. | 1..1 | ValidityStatusEnum |
| vehicleEquipment | VehicleCharacteristics | Vehicle equipment | The type of equipment in use or on board the vehicle. | 0..1 | VehicleEquipmentEnum |
| vehicleHeight | HeightCharacteristic | Vehicle height | The height of the highest part, excluding antennae, of an individual vehicle above the road surface, in metres. | 1..1 | MetresAsFloat |
| vehicleLength | LengthCharacteristic | Vehicle length | The overall distance between the front and back of an individual vehicle, including the length of any trailers, couplings, etc. | 1..1 | MetresAsFloat |
| vehicleType | VehicleCharacteristics | Vehicle type | Vehicle type. | 0..\* | VehicleTypeEnum |
| vehicleType2 | VehicleCharacteristicsExtended | Vehicle type2 | Vehicle types currently not supported in 'VehicleTypeEnum'. | 0..1 | VehicleType2Enum |
| vehicleWidth | WidthCharacteristic | Vehicle width | The maximum width of an individual vehicle, in metres. | 1..1 | MetresAsFloat |
| vmsUnitUsedToManageParking | ParkingVMS | VMS unit used to manage parking | A reference to a record that contains the metadata for a specific VMS unit that may be used to manage the parking site (e.g. to indicate to drivers the current availability of spaces). | 1..1 | VersionedReference |
| voltage | ElectricCharging | Voltage | Available Voltage(s) of the electric charging station(s). | 0..\* | Volt |

Table 106- Alphabetical list of attributes

* 1. Alphabetical list of roles

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Role name** | **Class name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| accessAssignedAmongOthers | ParkingAccess | Access assigned among others | The assignment given in this class is convenient for this access, but not exclusionary. By using this role, do not use the same set of attributes within the other two roles. | 0..1 | ParkingAssignment |
| accessOnlyAssignedFor | ParkingAccess | Access only assigned for | Only the assignment given in this class is allowed for this access, i.e. other assignments are not allowed. By using this role, do not use the same set of attributes within the other two roles. | 0..1 | ParkingAssignment |
| accessProhibitedFor | ParkingAccess | Access prohibited for | The assignment given in this class is prohibited for this access. By using this role, do not use the same set of attributes within the other two roles. | 0..1 | ParkingAssignment |
| applicableForPeriod | ChargeBand | Applicable for period | Charge band limitation on a (complex) period, described by the validity model. | 0..1 | OverallPeriod |
| applicableForVehicles | ParkingEquipmentOrServiceFacility | Applicable for vehicles |  | 0..\* | VehicleCharacteristics |
| applicableForVehicles | ChargeBand | Applicable for vehicles | Charge band limitation on a set of vehicles described by their characteristics. | 0..\* | VehicleCharacteristics |
| assignedParkingAmongOthers | ParkingRecord | Assigned parking among others | Assignments for parking. Other assignments are allowed as well, i.e. the parking spaces are convenient for this kind of assignment. | 0..1 | ParkingAssignment |
| assignedParkingAmongOthers | ParkingSpaceBasics | Assigned parking among others | Assignments for parking. Other assignments are allowed as well, i.e. the parking spaces are convenient for this kind of assignment. | 0..1 | ParkingAssignment |
| availabilityAndOpeningTimes | ParkingEquipmentOrServiceFacility | Availability and opening times | Specify the general availability of some equipment or service facility (by using just the 'OverallPeriod' component) or specify its opening times more detailed. | 0..1 | OpeningTimes |
| destinationMotorway | Junction | Destination motorway | In case of any type of intersection, the destination motorway(s) can be defined. | 0..\* | Road |
| dimensionOfGroup | GroupOfParkingSpaces | Dimension of group | Dimension of a virtual rectangle encapsulating the group of parking spaces. Use 'dimensionUsableArea' to define the total space available for parking within this group. Do not use 'dimensionHeight'. | 0..1 | Dimension |
| emergencyAssemblyPoint | ParkingRecord | Emergency assembly point | Some geographic location(s) within or nearby the parking, where people have to meet in case of a fire, for example. | 0..1 | GroupOfLocations |
| emergencyContact | ParkingRecord | Emergency contact | Contact to be used in times of emergencies. | 0..\* | Contact |
| entireArea | ParkingRecord | Entire area | An underlaying area this parking record is located in or belongs to. Examples are a state, province, truck parking area etc. A name can be specified in the area structure. | 0..1 | Area |
| exceptionPeriod | OverallPeriod | Exception period | A single time period, a recurring time period or a set of different recurring time periods during which validity is false. | 0..\* | Period |
| groupOfParkingSpaces | ParkingRecord | Group of parking spaces | Properties for a group of parking spaces. Usually, all properties specified have to be the same for all spaces included. This aggregation may only be used with the "GroupOfParkingSpaces" specialisation. | 1..1 | ParkingSpaceBasics |
| maximumParkingSpaceDimension | GroupOfParkingSpaces | Maximum parking space dimension | Dimension of the largest space within this group (i.e. there must be at least one space of this dimension). If the comparison of dimension values is not unique, the length is decisive. | 0..1 | Dimension |
| minimumParkingSpaceDimension | GroupOfParkingSpaces | Minimum parking space dimension | Lower dimension boundaries for all spaces within the group. Note that there must not exist a space with this dimension, but each space's dimension values must be equal or higher. | 0..1 | Dimension |
| motorway | Junction | Motorway | A detailed identification of the motorway the junction belongs to. | 0..1 | Road |
| onlyAssignedParking | ParkingRecord | Only assigned parking | Parking is only allowed for the assignment given in this class, i.e. other assignments are not allowed. By using this role, it is not allowed to use 'assignedParkingAmongOthers' and 'prohibitedParking' for the same type of attributes. | 0..1 | ParkingAssignment |
| onlyAssignedParking | ParkingSpaceBasics | Only assigned parking | Parking is only allowed for the assignment given in this class, i.e. other assignments are not allowed. By using this role, it is not allowed to use 'assignedParkingAmongOthers' and 'prohibitedParking' for the same type of attributes. | 0..1 | ParkingAssignment |
| operator | ParkingRecord | Operator | Contact details of the operator of the parking facility. | 1..\* | Contact |
| owner | ParkingRecord | Owner | Contact details of the owner of the parking facility. | 0..\* | Contact |
| parkingColour | ParkingRecord | Parking colour | A colour, which can be assigned to the parking. Often used with parking areas for a quick visual distinction. | 0..1 | RGBColour |
| parkingLocation | ParkingRecord | Parking location | The location(s) or the extent of the parking. Examples could be an Area for parking area, a Point location for an urban parking facility or a Linear for on street parking. | 1..1 | GroupOfLocations |
| parkingRecordDimension | ParkingRecord | Parking record dimension | Dimension either of the building or a virtual rectangle encapsulating the parking site(s). Use 'dimensionUsableArea' to define the total space available for parking. Use 'dimensionHeight' only for a building, not for the restriction of vehicles. | 0..1 | Dimension |
| parkingRouteColour | ParkingRoute | Parking route colour | A colour assigned to a parking route for visualisation purpose. | 0..1 | RGBColour |
| parkingSiteAddress | ParkingSite | Parking site address | Information about the parking site itself (address etc.). The 'GroupOfLocations' association must not be used for this role. | 1..\* | Contact |
| parkingSpace | ParkingRecord | Parking space | Properties of a single parking space. This aggregation may only be used with the "ParkingSpace" specialisation. | 1..1 | ParkingSpaceBasics |
| parkingSpaceDimension | ParkingSpace | Parking space dimension | Dimension of the parking space (not all dimension attributes need to be provided). If the parking space is not rectangular, its dimension is specified as the smallest rectangle fitting inside its shape. | 0..1 | Dimension |
| primaryRoad | ParkingAccess | Primary road | Identification for up to two primary roads located nearby the access or which make the parking accessible. | 1..\* | Road |
| prohibitedParking | ParkingRecord | Prohibited parking | Parking is not allowed for the given assignment. | 0..1 | ParkingAssignment |
| prohibitedParking | ParkingSpaceBasics | Prohibited parking | Parking is not allowed for the given assignment. | 0..1 | ParkingAssignment |
| recurringDayWeekMonthPeriod | Period | Recurring day week month period | A recurring period defined in terms of days of the week, weeks of the month and months of the year. | 0..\* | DayWeekMonth |
| recurringSpecialDay | PeriodExtended | Recurring special day | A recurring period in terms of special days. | 0..\* | SpecialDay |
| recurringTimePeriodOfDay | Period | Recurring time period of day | A recurring period of a day. | 0..\* | TimePeriodOfDay |
| reservationService | ParkingSite | Reservation service | Reservation service (for end users). It is recommended to give URL and telephone. | 0..\* | Contact |
| responisbleAuthority | ParkingRecord | Responisble authority | Contact details of the responsible authority of the parking facility or parking area. | 0..\* | Contact |
| scenarioAvailability | ParkingUsageScenario | Scenario availability |  | 0..1 | OverallPeriod |
| securityService | ParkingRecord | Security service | Contact details of one or more security services of the parking facility. | 0..\* | Contact |
| servicePartner | ParkingRecord | Service partner | Contact details of a service partner of the parking record, i.e. the person or organisation that should be contacted to provide servicing or support services for equipment at the parking. | 0..\* | Contact |
| validityOfContact | Contact | Validity of contact |  | 0..1 | OverallPeriod |
| validityTimeSpecification | Validity | Validity time specification | A specification of periods of validity defined by overall bounding start and end times and the possible intersection of valid periods with exception periods (exception periods overriding valid periods). | 1..1 | OverallPeriod |
| validPeriod | OverallPeriod | Valid period | A single time period, a recurring time period or a set of different recurring time periods during which validity is true. | 0..\* | Period |
| vmsOperator | ParkingVMS | VMS operator |  | 0..\* | Contact |

Table 107- Alphabetical list of roles

* 1. Figures



Figure 1: ParkingTablePublication



Figure 2: ParkingRecord and ParkingSite



Figure 3: ParkingRecord



Figure 4: ParkingSite



Figure 5: ContactDetails



Figure 6: TariffsAndPayment



Figure 7: ParkingSpace / GroupOfParkingSpaces



Figure 8: Assignments (ParkingSpaceBasics)



Figure 9: Dimension



Figure 10: ParkingAccess



Figure 11: ParkingEquipmentOrServiceFacility



Figure 12: ParkingStandardsAndSecurity



Figure 13: OpeningTimes