**DATEX II profile for Intelligent Truck Parking EU compliant – 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 Intelligent Truck Parking. It is limited to elements that are specified in the corresponding EU Regulation 885/2013 (including a very little set of further optional elements that make the profile smoothly) as well as some more optional elements selected by ASFINAG.

The DATEX standard location referencing methods are not included in this document. ASFINAG specific documentation is accentuated in colour.

* 1. Data Dictionary for "ASFINAG Intelligent Truck Parking EU compliant - 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. "OpeningTimes" package

ASFINAG provides this information in excess of the information enforced by the EU Regulation.

* + - 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 |

Table 3— Classes of the "OpeningTimes" package

* + - 1. "OpeningTimes" package association roles

There are no defined association roles in the “OpeningTimes” package.

* + - 1. "OpeningTimes" package attributes

There are no defined attributes in 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 4— Classes of the "ParkingAccess" package

* + - 1. "ParkingAccess" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| ParkingAccess | primaryRoad | Primary road | Identification for up to two primary roads located nearby the access or which make the parking accessible. | 1..\* | Road |

Table 5— 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 |

Table 6— 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 7— 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.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | OpeningTimes |

Table 8— Associations of the "ParkingEquipmentOrServiceFacility" package

* + - 1. "ParkingEquipmentOrServiceFacility" package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| ElectricCharging | chargingStationUsageType | Charging station usage type | Usage type of the electric charging station(s). | 1..\* | ChargingStationUsageTypeEnum |
| 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.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..\* | AccessibilityEnum |
|  | additionalDescription | Additional description | Provides an additional description. | 0..1 | MultilingualString |
|  | availability | Availability | Specifies, if the element in question is available or not. Note that this is no dynamic information! | 0..1 | AvailabilityEnum |
|  | 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.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | MultilingualString |
|  | 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.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 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 9— 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 |

Table 10— Classes of the "ParkingRecord" package

* + - 1. "ParkingRecord" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| 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 |
|  | 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 |
|  | 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 |
|  | prohibitedParking | Prohibited parking | Parking is not allowed for the given assignment. | 0..1 | ParkingAssignment |

Table 11— 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 | 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 |
|  | 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 |
|  | contactDetailsPostcode | Contact details postcode | Postcode of the contact. | 0..1 | String |
|  | 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 |
|  | 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 |
| ParkingRecord | parkingAlias | Parking alias | Alternative name for the parking site or the group of parking sites. | 0..\* | 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 |
|  | parkingRecordVersionTime | Parking record version time | Date/time that this version of the parking record was defined. | 1..1 | DateTime |

Table 12— 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 |

Table 13— 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 |

Table 14— 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 |
| 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 |

Table 15— Attributes of the “ParkingSite” package

* + 1. “ParkingSpace” package
       1. “ParkingSpace” package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| 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 |

Table 16— Classes of the “ParkingSpace” package

* + - 1. “ParkingSpace” package association roles

There are no defined association roles in the “ParkingSpace” package.

* + - 1. “ParkingSpace” package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| GroupOfParkingSpaces | 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 |

Table 17— Attributes of the “ParkingSpace” package

* + 1. “ParkingSpaceBasics” package
       1. “ParkingSpaceBasics” package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| 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 |
| ParkingSpaceBasics | Parking space basics | Common properties of parking spaces and groups of parking spaces. |  | Yes |

Table 18— 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 19— Associations of the “ParkingSpaceBasics” package

* + - 1. “ParkingSpaceBasics” package attributes

There are no defined package attributes in 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 20— 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 |
|  | 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 21— 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 22— 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 23— Attributes of the “ParkingTablePublication” 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 24— 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 |
|  | 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 |
|  | typeOfRoad | Type of road | Type of the road.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | RoadTypeEnum |
| RoadNode | junctionName | Junction name | Name of the junction. | 1..1 | MultilingualString |

Table 25— Attributes of the “Road” package

* + 1. “TariffsAndPayment” package
       1. “TariffsAndPayment” package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| 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 26— Classes of the “TariffsAndPayment” package

* + - 1. “TariffsAndPayment” package association roles

There are no defined association roles in the “TariffsAndPayment” package.

* + - 1. “TariffsAndPayment” package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| 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 |
|  | chargeTypeDescription | Charge type description | Additional description for this kind of charge type, especially if the enumeration does not fit. | 0..1 | MultilingualString |
| ChargeBand | 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 |
| ChargeBandByReference | chargeBandReference | Charge band reference | A reference to a charge band. | 1..1 | VersionedReference |
| TariffsAndPayment | 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 |

Table 27— Attributes of the “TariffsAndPayment” package

* + 1. “TimePeriodOfDay” package
       1. “TimePeriodOfDay” package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| TimePeriodByHour | Time period by hour | Specification of a continuous period within a 24 hour period by times. |  | No |
| TimePeriodOfDay | Time period of day | Specification of a continuous period of time within a 24 hour period. |  | Yes |

Table 28— Classes of the “TimePeriodOfDay” package

* + - 1. “TimePeriodOfDay” package association roles

There are no defined association roles in the “TimePeriodOfDay” package.

* + - 1. “TimePeriodOfDay” package attributes

| **Class name** | **Attribute name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| --- | --- | --- | --- | --- | --- |
| TimePeriodByHour | endTimeOfPeriod | End time of period | End of time period. | 1..1 | Time |
|  | startTimeOfPeriod | Start time of period | Start of time period. | 1..1 | Time |

Table 29— Attributes of the “TimePeriodOfDay” package

* + 1. "Validity" package

ASFINAG provides this information in excess of the information enforced by the EU Regulation.

* + - 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 30— Classes of the "Validity" package

* + - 1. "Validity" package association roles

| **Class name** | **Role name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| --- | --- | --- | --- | --- | --- |
| OverallPeriod | 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 31— 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.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..7 | DayEnum |
|  | applicableMonth | Applicable month | Applicable month of the year. "All months of the year" is expressed by non-inclusion of this attribute.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 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.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..5 | WeekOfMonthEnum |
| OverallPeriod | overallEndTime | Overall end time | End of bounding period of validity defined by date and time.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | DateTime |
|  | overallStartTime | Overall start time | Start of bounding period of validity defined by date and time.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 1..1 | DateTime |
| Period | endOfPeriod | End of period | End of a period.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | DateTime |
|  | periodName | Period name | The name of the period.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | MultilingualString |
|  | startOfPeriod | Start of period | Start of period.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | DateTime |
| Validity | validityStatus | Validity status | Specification of validity, either explicitly overriding the validity time specification or confirming it.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 1..1 | ValidityStatusEnum |

Table 32— Attributes of the "Validity" package

* + 1. “VehicleCharacteristics” package
       1. “VehicleCharacteristics” package classes

| **Class name** | **Designation** | **Definition** | **Stereotype** | **Abstract** |
| --- | --- | --- | --- | --- |
| VehicleCharacteristics | Vehicle characteristics | The characteristics of a vehicle, e.g. lorry of gross weight greater than 30 tonnes. |  | No |

Table 33— 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** |
| --- | --- | --- | --- | --- | --- |
| VehicleCharacteristics | vehicleType | Vehicle type | Vehicle type. | 0..\* | VehicleTypeEnum |

Table 34— 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 35— 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 |

Table 36— Attributes of the “VehicleCharacteristicsExtension” package

* 1. Data Dictionary of <<datatypes>> for “ASFINAG Intelligent Truck Parking EU compliant – Static Part”

This clause contains the definitions of all data types which are used in the “ASFINAG Intelligent Truck Parking EU compliant – Static Part”.

* + 1. The <<datatype>> “AmountOfMoney”

A monetary value expressed to two decimal places.

* + 1. The <<datatype>> “MetresAsNonNegativeInteger”

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

* + 1. The <<datatype>> “Seconds”

Seconds.

* 1. Data Dictionary of <<enumerations>> for “ASFINAG Intelligent Truck Parking EU compliant – Static Part”

This clause contains the definitions of all enumerations which are used in the “ASFINAG Intelligent Truck Parking EU compliant – 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. |
| 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 37— Values contained in the enumeration “AccessCategoryEnum”

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

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

ASFINAG provides this information in excess of the information enforced by the EU Regulation.

| **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 38— 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 39— Values contained in the enumeration “AvailabilityEnum”

* + 1. The <<enumeration>> “ChargingStationUsageTypeEnum”

Type of usage for electric charging station(s).

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| lorryPowerConsumption | Lorry power consumption | Supply for lorries with power consumption, e.g. for refrigerated goods transports. |

Table 40— Values contained in the enumeration “ChargingStationUsageTypeEnum”

* + 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 41— 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 42— 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 43— Values contained in the enumeration "DayEnum"

* + 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 44— Values contained in the enumeration “EquipmentTypeEnum”

* + 1. The <<enumeration>> “GroupOfParkingSitesTypeEnum”

The type of this group of parking sites.

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| truckParkingPriorityZone | Truck parking priority zone | This group is describing a truck parking priority zone according to the EU regulation. |

Table 45— 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 46— Values contained in the enumeration “InterUrbanParkingSiteLocationEnum”

* + 1. The <<enumeration>> “LoadType2Enum”

Loads that are currently not supported in loadType.

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

Table 47— Values contained in the enumeration “LoadType2Enum”

* + 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 48— Values contained in the enumeration "MonthOfYearEnum"

* + 1. The <<enumeration>> “ParkingSecurityEnum”

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

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| areaSeperatedFromSurroundings | Area hemselve 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 49— Values contained in the enumeration “ParkingSecurityEnum”

* + 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 50— 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 51— Values contained in the enumeration “ParkingTypeOfGroup”

* + 1. The <<enumeration>> “ParkingUsageScenarioEnum”

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

| **Enumerated value name** | **Designation** | **Definition** |
| --- | --- | --- |
| 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.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. |
| serviceArea | Service area | The parking site is associated with a service area.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. |
| truckParking | Truck parking | The parking site is designed for lorries (other vehicles are allowed as well). |

Table 52— Values contained in the enumeration “ParkingUsageScenarioEnum”

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

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

ASFINAG provides this information in excess of the information enforced by the EU Regulation.

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

Table 53— 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. |
| Café | Café | Café. |
| 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 hemsel and fetch their meal hemselves, 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 54— Values contained in the enumeration “ServiceFacilityTypeEnum”

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

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

ASFINAG provides this information in excess of the information enforced by the EU Regulation.

| **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 55— Values contained in the enumeration "ValidityStatusEnum"

* + 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 56— Values contained in the enumeration “VehicleTypeEnum”

* + 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 57— Values contained in the enumeration "WeekOfMonthEnum"

* 1. Alphabetical list of attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **Class name** | **Designation** | **Definition** | **Multiplicity** | **Type** |
| accessCategory | ParkingAccess | Access category | Specifies the category(s) of this access. | 1..\* | AccessCategoryEnum |
| accessibility | ParkingEquipmentOrServiceFacility | Accessibility | Information on accessibility, easements and marking for handicapped people.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..\* | AccessibilityEnum |
| additionalDescription | ParkingEquipmentOrServiceFacility | Additional description | Provides an additional description. | 0..1 | MultilingualString |
| applicableDay | DayWeekMonth | Applicable day | Applicable day of the week. "All days of the week" is expressed by non-inclusion of this attribute.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..7 | DayEnum |
| applicableMonth | DayWeekMonth | Applicable month | Applicable month of the year. "All months of the year" is expressed by non-inclusion of this attribute.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 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.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..5 | WeekOfMonthEnum |
| availability | ParkingEquipmentOrServiceFacility | Availability | Specifies, if the element in question is available or not. Note that this is no dynamic information! | 0..1 | AvailabilityEnum |
| 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 |
| chargeTypeDescription | Charge | Charge type description | Additional description for this kind of charge type, especially if the enumeration does not fit. | 0..1 | MultilingualString |
| chargingStationUsageType | ElectricCharging | Charging station usage type | Usage type of the electric charging station(s). | 1..\* | ChargingStationUsageTypeEnum |
| contactDetailsAddress | ContactDetails | Contact details address | Complete address of the contact. Alternatively use the separate fields to describe the address. | 0..1 | MultilingualString |
| contactDetailsCity | ContactDetails | Contact details city | City of the contact. | 0..1 | MultilingualString |
| contactDetailsEMail | ContactDetails | Contact details e mail | E-Mail address of the contact. | 0..1 | String |
| contactDetailsHouseNumber | ContactDetails | Contact details house number | House number of the contact. Supports a multiplicity up to two, to specify lower and upper numbers. | 0..2 | String |
| contactDetailsPostcode | ContactDetails | Contact details postcode | Postcode of the contact. | 0..1 | String |
| contactDetailsStreet | ContactDetails | Contact details street | Street of the contact. | 0..1 | String |
| 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 |
| 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 | ContactDetails | Country | ISO 3166-1 two character country code. | 0..1 | CountryEnum |
| dateOfCertification | ParkingStandardsAndSecurity | Date of certification | Date of certification. | 0..1 | Date |
| 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 |
| distanceToThisRoad | Road | Distance to this road | Distance to the road in metres (from the calling component/object). | 0..1 | MetresAsNonNegativeInteger |
| endOfPeriod | Period | End of period | End of a period.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | DateTime |
| endTimeOfPeriod | TimePeriodByHour | End time of period | End of time period. | 1..1 | Time |
| 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 |
| genericPublicationName | GenericPublication | Generic publication name | The name of the generic publication. | 1..1 | String |
| groupOfParkingSitesType | GroupOfParkingSites | Group of parking sites type | The type of this group of parking sites. | 0..1 | GroupOfParkingSitesTypeEnum |
| 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 |
| junctionName | RoadNode | Junction name | Name of the junction. | 1..1 | MultilingualString |
| lastUpdated | TariffsAndPayment | Last updated | The date/time at which this information was last updated. | 0..1 | DateTime |
| loadType2 | VehicleCharacteristicsExtended | Load type2 | Loads currently not supported in ‘LoadTypeEnum’. | 0..1 | LoadType2Enum |
| 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.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | MultilingualString |
| 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 |
| 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 |
| overallEndTime | OverallPeriod | Overall end time | End of bounding period of validity defined by date and time.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | DateTime |
| overallStartTime | OverallPeriod | Overall start time | Start of bounding period of validity defined by date and time.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 1..1 | DateTime |
| 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 |
| 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 |
| parkingRecordVersionTime | ParkingRecord | Parking record version time | Date/time that this version of the parking record was defined. | 1..1 | DateTime |
| 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 |
| 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 |
| periodName | Period | Period name | The name of the period.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | MultilingualString |
| photoUrl | ParkingEquipmentOrServiceFacility | Photo url | Specifies a URL at which a photo of the object in concern can be found.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | Url |
| publishingAgreement | ContactDetails | Publishing agreement | Indication, whether the contact accepted publishing its contact information. | 0..1 | Boolean |
| 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 |
| serviceFacilityType | ServiceFacility | Service facility type | One type of service, that is available on the parking site. | 1..1 | ServiceFacilityTypeEnum |
| startOfPeriod | Period | Start of period | Start of period.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | DateTime |
| startTimeOfPeriod | TimePeriodByHour | Start time of period | Start of time period. | 1..1 | Time |
| typeOfRoad | Road | Type of road | Type of the road.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | RoadTypeEnum |
| validityStatus | Validity | Validity status | Specification of validity, either explicitly overriding the validity time specification or confirming it.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 1..1 | ValidityStatusEnum |
| vehicleType | VehicleCharacteristics | Vehicle type | Vehicle type. | 0..\* | VehicleTypeEnum |

Table 58- Alphabetical list of attributes

* 1. Alphabetical list of roles

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Role name** | **Class name** | **Designation** | **Definition** | **Multiplicity** | **Target** |
| applicableForVehicles | ParkingEquipmentOrServiceFacility | Applicable for vehicles |  | 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.  ASFINAG provides this information in excess of the information enforced by the EU Regulation. | 0..1 | OpeningTimes |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| primaryRoad | ParkingAccess | Primary road | Identification for up to two primary roads located nearby the access or which make the parking accessible. | 1..\* | Road |
| prohibitedParking | ParkingSpaceBasics | Prohibited parking | Parking is not allowed for the given assignment. | 0..1 | ParkingAssignment |
| prohibitedParking | ParkingRecord | 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 |
| recurringTimePeriodOfDay | Period | Recurring time period of day | A recurring period of a day. | 0..\* | TimePeriodOfDay |
| 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 |

Table 59- Alphabetical list of roles

* 1. Figures



Figure 1 – ParkingTablePublication



Figure 2 – ParkingSite



Figure 3 – ParkingAssignment



Figure 4 – ParkingEquipmentOrServiceFacility



Figure 5 – ParkingStandardsAndSecurity



Figure 6 – TariffsAndPayment



Figure 7 – TruckParkingPriorityZone