Realis ITS

Version 08.12.2022

DatexII 3.3 profile realistrafficregulation-3.0

DATEXII_3_CommonExtension

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/commonExtension**
Version	3.3
Element and Attribute Namespaces	• Global element and attribute declarations belong to this schema's target namespace. • By default, local element declarations belong to this schema's target namespace. • By default, local attribute declarations have no namespace.

Schema Composition	• This schema imports schema(s) from the following namespace(s):
	  ◦ *http://datex2.eu/schema/3/trafficRegulation* (at DATEXII_3_TrafficRegulation.xsd)
	  ◦ *http://datex2.eu/schema/3/common* (at DATEXII_3_Common.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
tro	http://datex2.eu/schema/3/trafficRegulation
com	http://datex2.eu/schema/3/common
comx	**http://datex2.eu/schema/3/commonExtension**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified" version="3.3"
targetNamespace="http://datex2.eu/schema/3/commonExtension">
  <xs:import namespace="http://datex2.eu/schema/3/trafficRegulation"
  schemaLocation="DATEXII_3_TrafficRegulation.xsd"/>
  <xs:import namespace="http://datex2.eu/schema/3/common" schemaLocation="DATEXII_3_Common.xsd"/>
  ...
</xs:schema>
```

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Global Definitions

Complex Type: AgeCharacteristic

Super-types:	None
Sub-types:	None

Name	AgeCharacteristic
Abstract	no
Documentation	Characteristics depending on vehicle age

XML Instance Representation

```
<...>
  <comx:comparisonOperator> com:_ComparisonOperatorEnum </comx:comparisonOperator> [1] ?
  <comx:yearOfFirstRegistration> com:Year </comx:yearOfFirstRegistration> [1] ?
  <comx:_ageCharacteristicExtension> com:_ExtensionType </comx:_ageCharacteristicExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AgeCharacteristic">
  <xs:sequence>
    <xs:element name="comparisonOperator" type="com:_ComparisonOperatorEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="yearOfFirstRegistration" type="com:Year" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_ageCharacteristicExtension" type="com:_ExtensionType" minOccurs="0"/>
```

```
   </xs:sequence>
</xs:complexType>
```

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Complex Type: DangerousGoodsExtended

Super-types:	None
Sub-types:	None

Name DangerousGoodsExtended

Abstract no

Documentation Extension of dangerous goods class.

XML Instance Representation

```
<...>
   <comx:adrClassValue> comx:ADRClass </comx:adrClassValue> [0..13] ?
</...>
```

Schema Component Representation

```
<xs:complexType name="DangerousGoodsExtended">
   <xs:sequence>
      <xs:element name="adrClassValue" type="comx:ADRClass" minOccurs="0" maxOccurs="13"/>
   </xs:sequence>
</xs:complexType>
```

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Complex Type: DayWeekMonthExtended

Super-types:	None
Sub-types:	None

Name DayWeekMonthExtended

Abstract no

Documentation Extension of class DayWeekMonth.

XML Instance Representation

```
<...>
   <comx:applicableDaysWithinMonth> comx:_ApplicableDaysWithinMonthEnum </comx:applicableDaysWithinMonth> [1] ?
</...>
```

Schema Component Representation

```
<xs:complexType name="DayWeekMonthExtended">
   <xs:sequence>
      <xs:element name="applicableDaysWithinMonth" type="comx:_ApplicableDaysWithinMonthEnum" minOccurs="1"
      maxOccurs="1"/>
   </xs:sequence>
</xs:complexType>
```

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Complex Type: EmissionsExtension

Super-types:	None
Sub-types:	None

Name EmissionsExtension

Abstract no

Documentation An extension for the Emissions class to provide a comparison operator.

XML Instance Representation

```
<...>
   <comx:comparisonOperator> com:_ComparisonOperatorEnum </comx:comparisonOperator> [1] ?
</...>
```

Schema Component Representation

```
<xs:complexType name="EmissionsExtension">
   <xs:sequence>
      <xs:element name="comparisonOperator" type="com:_ComparisonOperatorEnum" minOccurs="1" maxOccurs="1"/>
   </xs:sequence>
</xs:complexType>
```

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Complex Type: EnginePowerCharacteristics

Super-types:	None
Sub-types:	None

Name EnginePowerCharacteristics

Abstract	no
Documentation	Characteristics of the engine power of a vehicle.

XML Instance Representation

```
<...>
   <comx:comparisonOperator> com:_ComparisonOperatorEnum </comx:comparisonOperator> [1] ?
   <comx:enginePower> com:Float </comx:enginePower> [1] ?
   <comx:unitOfMeasure> comx:_PowerUnitOfMeasureEnum </comx:unitOfMeasure> [1] ?
   <comx:_enginePowerCharacteristicsExtension> com:_ExtensionType </comx:_enginePowerCharacteristicsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="EnginePowerCharacteristics">
   <xs:sequence>
      <xs:element name="comparisonOperator" type="com:_ComparisonOperatorEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="enginePower" type="com:Float" minOccurs="1" maxOccurs="1"/>
      <xs:element name="unitOfMeasure" type="comx:_PowerUnitOfMeasureEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_enginePowerCharacteristicsExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

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Complex Type: FuzzyPeriod

Super-types:	None
Sub-types:	None

Name	FuzzyPeriod
Abstract	no
Documentation	Class for fuzzy periods of a day.

XML Instance Representation

```
<...>
   <comx:beginOrDuration> comx:_FuzzyTimeEnum </comx:beginOrDuration> [0..1] ?
   <comx:endOrDuration> comx:_FuzzyTimeEnum </comx:endOrDuration> [0..1] ?
   <comx:_fuzzyPeriodExtension> com:_ExtensionType </comx:_fuzzyPeriodExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="FuzzyPeriod">
   <xs:sequence>
      <xs:element name="beginOrDuration" type="comx:_FuzzyTimeEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="endOrDuration" type="comx:_FuzzyTimeEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_fuzzyPeriodExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

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Complex Type: GrossTrailerWeightCharacteristics

Super-types:	None
Sub-types:	None

Name	GrossTrailerWeightCharacteristics
Abstract	no
Documentation	Gross weight characteristic of a trailer of a vehicle.

XML Instance Representation

```
<...>
   <comx:comparisonOperator> com:_ComparisonOperatorEnum </comx:comparisonOperator> [1] ?
   <comx:grossTrailerWeight> com:Tonnes </comx:grossTrailerWeight> [1] ?
   <comx:typeOfWeight> com:_WeightTypeEnum </comx:typeOfWeight> [1] ?
   <comx:_grossTrailerWeightCharacteristicsExtension> com:_ExtensionType
   </comx:_grossTrailerWeightCharacteristicsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GrossTrailerWeightCharacteristics">
   <xs:sequence>
      <xs:element name="comparisonOperator" type="com:_ComparisonOperatorEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="grossTrailerWeight" type="com:Tonnes" minOccurs="1" maxOccurs="1"/>
      <xs:element name="typeOfWeight" type="com:_WeightTypeEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_grossTrailerWeightCharacteristicsExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

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Complex Type: PeriodExtended

Super-types:	None
Sub-types:	None

Name	PeriodExtended
Abstract	no
Documentation	Extension class for Period.

XML Instance Representation

```
<...>
   <comx:fuzzyPeriod> comx:FuzzyPeriod </comx:fuzzyPeriod> [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="PeriodExtended">
   <xs:sequence>
      <xs:element name="fuzzyPeriod" type="comx:FuzzyPeriod" minOccurs="0" maxOccurs="unbounded"/>
   </xs:sequence>
</xs:complexType>
```

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Complex Type: RegulatedCharacteristics

Super-types:	None
Sub-types:	None

Name	RegulatedCharacteristics
Abstract	no
Documentation	characteristics as defined in EU and or national regulations

XML Instance Representation

```
<...>
   <comx:euVehicleCategory> comx:_EuVehicleCategoryEnum </comx:euVehicleCategory> [0..*] ?
   <comx:euSpecialPurposeVehicle> comx:_EuSpecialPurposeVehicleEnum </comx:euSpecialPurposeVehicle> [0..1] ?
   <comx:nationalSpecialPurposeVehicle> com:MultilingualString </comx:nationalSpecialPurposeVehicle> [0..1] ?
   <comx:_regulatedCharacteristicsExtension> com:_ExtensionType </comx:_regulatedCharacteristicsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RegulatedCharacteristics">
   <xs:sequence>
      <xs:element name="euVehicleCategory" type="comx:_EuVehicleCategoryEnum" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="euSpecialPurposeVehicle" type="comx:_EuSpecialPurposeVehicleEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="nationalSpecialPurposeVehicle" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_regulatedCharacteristicsExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

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Complex Type: TrailerCharacteristics

Super-types:	None
Sub-types:	None

Name	TrailerCharacteristics
Abstract	no
Documentation	The characteristics of a trailer e.g. gross weight of trailer.

XML Instance Representation

```
<...>
   <comx:grossTrailerWeightCharacteristics> comx:GrossTrailerWeightCharacteristics
   </comx:grossTrailerWeightCharacteristics> [1] ?
   <comx:_trailerCharacteristicsExtension> com:_ExtensionType </comx:_trailerCharacteristicsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrailerCharacteristics">
   <xs:sequence>
      <xs:element name="grossTrailerWeightCharacteristics" type="comx:GrossTrailerWeightCharacteristics"/>
      <xs:element name="_trailerCharacteristicsExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

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Complex Type: VehicleCharacteristicsExtended

Super-types:	None
Sub-types:	None

Name	VehicleCharacteristicsExtended
Abstract	no
Documentation	Extension class for vehicle characteristics

XML Instance Representation

```
<...>
   <comx:ageCharacteristic> comx:AgeCharacteristic </comx:ageCharacteristic> [0..1]
   <comx:maximumDesignSpeed> tro:Speed </comx:maximumDesignSpeed> [0..1] ?
   <comx:trailerCharacteristics> comx:TrailerCharacteristics </comx:trailerCharacteristics> [0..1]
   <comx:hazardousMaterials> com:HazardousMaterials </comx:hazardousMaterials> [0..1]
   <comx:enginePowerCharacteristics> comx:EnginePowerCharacteristics </comx:enginePowerCharacteristics> [0..2]
   <comx:regulatedCharacteristics> comx:RegulatedCharacteristics </comx:regulatedCharacteristics> [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="VehicleCharacteristicsExtended">
   <xs:sequence>
      <xs:element name="ageCharacteristic" type="comx:AgeCharacteristic" minOccurs="0"/>
      <xs:element name="maximumDesignSpeed" type="tro:Speed" minOccurs="0"/>
      <xs:element name="trailerCharacteristics" type="comx:TrailerCharacteristics" minOccurs="0"/>
      <xs:element name="hazardousMaterials" type="com:HazardousMaterials" minOccurs="0"/>
      <xs:element name="enginePowerCharacteristics" type="comx:EnginePowerCharacteristics" minOccurs="0"
      maxOccurs="2"/>
      <xs:element name="regulatedCharacteristics" type="comx:RegulatedCharacteristics" minOccurs="0"
      maxOccurs="unbounded"/>
   </xs:sequence>
</xs:complexType>
```

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Complex Type: _ApplicableDaysWithinMonthEnum

Super-types:	xs:string < ApplicableDaysWithinMonthEnum (by restriction) < **_ApplicableDaysWithinMonthEnum** (by extension)
Sub-types:	None

Name	_ApplicableDaysWithinMonthEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   comx:ApplicableDaysWithinMonthEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_ApplicableDaysWithinMonthEnum">
   <xs:simpleContent>
      <xs:extension base="comx:ApplicableDaysWithinMonthEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

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Complex Type: _EuSpecialPurposeVehicleEnum

Super-types:	xs:string < EuSpecialPurposeVehicleEnum (by restriction) < **_EuSpecialPurposeVehicleEnum** (by extension)
Sub-types:	None

Name	_EuSpecialPurposeVehicleEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   comx:EuSpecialPurposeVehicleEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_EuSpecialPurposeVehicleEnum">
   <xs:simpleContent>
      <xs:extension base="comx:EuSpecialPurposeVehicleEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

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Complex Type: _EuVehicleCategoryEnum

Super-types:	xs:string < EuVehicleCategoryEnum (by restriction) < **_EuVehicleCategoryEnum** (by extension)
Sub-types:	None

Name	_EuVehicleCategoryEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
```

```
  comx:EuVehicleCategoryEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_EuVehicleCategoryEnum">
  <xs:simpleContent>
    <xs:extension base="comx:EuVehicleCategoryEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

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Complex Type: _FuzzyTimeEnum

Super-types:	xs:string < FuzzyTimeEnum (by restriction) < **_FuzzyTimeEnum** (by extension)
Sub-types:	None

Name	_FuzzyTimeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  comx:FuzzyTimeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_FuzzyTimeEnum">
  <xs:simpleContent>
    <xs:extension base="comx:FuzzyTimeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

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Complex Type: _PowerUnitOfMeasureEnum

Super-types:	xs:string < PowerUnitOfMeasureEnum (by restriction) < **_PowerUnitOfMeasureEnum** (by extension)
Sub-types:	None

Name	_PowerUnitOfMeasureEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  comx:PowerUnitOfMeasureEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_PowerUnitOfMeasureEnum">
  <xs:simpleContent>
    <xs:extension base="comx:PowerUnitOfMeasureEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Simple Type: ADRClass

Super-types:	com:String < **ADRClass** (by restriction)
Sub-types:	None

Name	ADRClass
Content	• **'String' super type was not found in this schema. Its facets could not be printed out.** • *pattern* = [1-9]|[4-6].[1-2]|4.3
Documentation	Specification of classes of dangerous goods according to ADR.

Schema Component Representation

```
<xs:simpleType name="ADRClass">
  <xs:restriction base="com:String">
    <xs:pattern value="[1-9]|[4-6].[1-2]|4.3"/>
  </xs:restriction>
</xs:simpleType>
```

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Simple Type: ApplicableDaysWithinMonthEnum

Super-types:	xs:string < **ApplicableDaysWithinMonthEnum** (by restriction)
Sub-types:	• _ApplicableDaysWithinMonthEnum (by extension)

Name ApplicableDaysWithinMonthEnum

Content

- Base XSD Type: string
- *value* comes from list: {'evenDay'|'oddDay'|'daysFromOneToFifteen'|'daysFromSixteenToThirtyOne'|'_extended'}

Documentation Types of days within a month.

Schema Component Representation

```
<xs:simpleType name="ApplicableDaysWithinMonthEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="evenDay"/>
      <xs:enumeration value="oddDay"/>
      <xs:enumeration value="daysFromOneToFifteen"/>
      <xs:enumeration value="daysFromSixteenToThirtyOne"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

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Simple Type: EuSpecialPurposeVehicleEnum

Super-types:	xs:string < **EuSpecialPurposeVehicleEnum** (by restriction)
Sub-types:	• _EuSpecialPurposeVehicleEnum (by extension)

Name EuSpecialPurposeVehicleEnum

Content

- Base XSD Type: string
- *value* comes from list: {'motorCaravan'|'armouredVehicle'|'ambulance'|'hearse'|'trailerCaravan'|'mobileCrane'|'otherSpecialPurposeVehicle'|'wheelChairAccessibleVehicle'|'_

Documentation Vehicle purpose according to EU legislation

Schema Component Representation

```
<xs:simpleType name="EuSpecialPurposeVehicleEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="motorCaravan"/>
      <xs:enumeration value="armouredVehicle"/>
      <xs:enumeration value="ambulance"/>
      <xs:enumeration value="hearse"/>
      <xs:enumeration value="trailerCaravan"/>
      <xs:enumeration value="mobileCrane"/>
      <xs:enumeration value="otherSpecialPurposeVehicle"/>
      <xs:enumeration value="wheelChairAccessibleVehicle"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: EuVehicleCategoryEnum

Super-types:	xs:string < **EuVehicleCategoryEnum** (by restriction)
Sub-types:	• _EuVehicleCategoryEnum (by extension)

Name EuVehicleCategoryEnum

Content

- Base XSD Type: string
- *value* comes from list: {'m'|'m1'|'m2'|'m3'|'n'|'n1'|'n2'|'n3'|'o'|'o1'|'o2'|'o3'|'o4'|'_extended'}

Documentation Vehicle categories according to EU legislation

Schema Component Representation

```
<xs:simpleType name="EuVehicleCategoryEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="m"/>
      <xs:enumeration value="m1"/>
      <xs:enumeration value="m2"/>
      <xs:enumeration value="m3"/>
      <xs:enumeration value="n"/>
      <xs:enumeration value="n1"/>
      <xs:enumeration value="n2"/>
      <xs:enumeration value="n3"/>
      <xs:enumeration value="o"/>
      <xs:enumeration value="o1"/>
      <xs:enumeration value="o2"/>
      <xs:enumeration value="o3"/>
      <xs:enumeration value="o4"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

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Simple Type: FuzzyTimeEnum

Super-types:	xs:string < **FuzzyTimeEnum** (by restriction)
Sub-types:	• _FuzzyTimeEnum (by extension)

Name FuzzyTimeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'dawn'|'sunset'|'_extended'}

Documentation Enumeration for fuzzy time periods.

Schema Component Representation

```
<xs:simpleType name="FuzzyTimeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="dawn"/>
    <xs:enumeration value="sunset"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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Simple Type: PowerUnitOfMeasureEnum

Super-types:	xs:string < **PowerUnitOfMeasureEnum** (by restriction)
Sub-types:	• _PowerUnitOfMeasureEnum (by extension)

Name PowerUnitOfMeasureEnum

Content

- Base XSD Type: string
- *value* comes from list: {'kilowatt'|'horsepower'|'_extended'}

Documentation Units for measuring power.

Schema Component Representation

```
<xs:simpleType name="PowerUnitOfMeasureEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="kilowatt"/>
    <xs:enumeration value="horsepower"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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Schema Document Properties

Target Namespace	http://datex2.eu/schema/3/common
Version	3.3
Element and Attribute Namespaces	• Global element and attribute declarations belong to this schema's target namespace. • By default, local element declarations belong to this schema's target namespace. • By default, local attribute declarations have no namespace.
Schema Composition	• This schema imports schema(s) from the following namespace(s): ◦ *http://datex2.eu/schema/3/commonExtension* (at DATEXII_3_CommonExtension.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
comx	http://datex2.eu/schema/3/commonExtension
com	http://datex2.eu/schema/3/common

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified" version="3.3"
targetNamespace="http://datex2.eu/schema/3/common">
   <xs:import namespace="http://datex2.eu/schema/3/commonExtension" schemaLocation="DATEXII_3_CommonExtension.xsd"/>
   ...
</xs:schema>
```

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Global Definitions

Complex Type: CalendarWeekWithinMonth

Super-types:	DayWeekMonth < **CalendarWeekWithinMonth** (by extension)
Sub-types:	None

Name	CalendarWeekWithinMonth
Abstract	no
Documentation	Specification of periods defined by relevant calendar weeks in a month, see ISO8601. Note: Calendar weeks start with Monday. First week is the week containing the first of the month.

XML Instance Representation

```
<...>
   <com:applicableDay> com:_DayEnum </com:applicableDay> [0..7] ?
   <com:applicableMonth> com:_MonthOfYearEnum </com:applicableMonth> [0..12] ?
   <com:_dayWeekMonthExtension> com:_DayWeekMonthExtensionType </com:_dayWeekMonthExtension> [0..1]
   <com:applicableCalenderWeekWithinMonth> com:_CalendarWeekWithinMonthEnum </com:applicableCalenderWeekWithinMonth>
   [1..6] ?
   <com:_calendarWeekWithinMonthExtension> com:_ExtensionType </com:_calendarWeekWithinMonthExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="CalendarWeekWithinMonth">
   <xs:complexContent>
      <xs:extension base="com:DayWeekMonth">
         <xs:sequence>
            <xs:element name="applicableCalenderWeekWithinMonth" type="com:_CalendarWeekWithinMonthEnum" minOccurs="1"
            maxOccurs="6"/>
            <xs:element name="_calendarWeekWithinMonthExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: DayWeekMonth

Super-types:	None
Sub-types:	• CalendarWeekWithinMonth (by extension) • InstanceOfDayWithinMonth (by extension)

Name	DayWeekMonth
Abstract	no
Documentation	Specification of periods defined by the intersection of days or instances of them, calendar weeks and months.

XML Instance Representation

```
<...>
   <com:applicableDay> com:_DayEnum </com:applicableDay> [0..7] ?
   <com:applicableMonth> com:_MonthOfYearEnum </com:applicableMonth> [0..12] ?
   <com:_dayWeekMonthExtension> com:_DayWeekMonthExtensionType </com:_dayWeekMonthExtension> [0..1]
```

```
</...>
```

Schema Component Representation

```
<xs:complexType name="DayWeekMonth">
   <xs:sequence>
      <xs:element name="applicableDay" type="com:_DayEnum" minOccurs="0" maxOccurs="7"/>
      <xs:element name="applicableMonth" type="com:_MonthOfYearEnum" minOccurs="0" maxOccurs="12"/>
      <xs:element name="_dayWeekMonthExtension" type="com:_DayWeekMonthExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: Emissions

Super-types:	None
Sub-types:	None

Name	Emissions
Abstract	no
Documentation	Emission characteristics of vehicles.

XML Instance Representation

```
<...>
   <com:emissionClassificationEuro> com:_EmissionClassificationEuroEnum </com:emissionClassificationEuro> [0..1] ?
   <com:emissionClassificationOther> com:String </com:emissionClassificationOther> [0..*] ?
   <com:emissionLevel> com:_LowEmissionLevelEnum </com:emissionLevel> [0..1] ?
   <com:_emissionsExtension> com:_EmissionsExtensionType </com:_emissionsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Emissions">
   <xs:sequence>
      <xs:element name="emissionClassificationEuro" type="com:_EmissionClassificationEuroEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="emissionClassificationOther" type="com:String" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="emissionLevel" type="com:_LowEmissionLevelEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_emissionsExtension" type="com:_EmissionsExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: GrossWeightCharacteristic

Super-types:	None
Sub-types:	None

Name	GrossWeightCharacteristic
Abstract	no
Documentation	Gross weight characteristic of a vehicle.

XML Instance Representation

```
<...>
   <com:comparisonOperator> com:_ComparisonOperatorEnum </com:comparisonOperator> [1] ?
   <com:grossVehicleWeight> com:Tonnes </com:grossVehicleWeight> [1] ?
   <com:typeOfWeight> com:_WeightTypeEnum </com:typeOfWeight> [1] ?
   <com:_grossWeightCharacteristicExtension> com:_ExtensionType </com:_grossWeightCharacteristicExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GrossWeightCharacteristic">
   <xs:sequence>
      <xs:element name="comparisonOperator" type="com:_ComparisonOperatorEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="grossVehicleWeight" type="com:Tonnes" minOccurs="1" maxOccurs="1"/>
      <xs:element name="typeOfWeight" type="com:_WeightTypeEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_grossWeightCharacteristicExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: HazardousMaterials

Super-types:	None
Sub-types:	None

Name	HazardousMaterials
Abstract	no
Documentation	Details of hazardous materials.

XML Instance Representation

```
<...>
   <com:chemicalName> com:MultilingualString </com:chemicalName> [1] ?
   <com:dangerousGoodsFlashPoint> com:TemperatureCelsius </com:dangerousGoodsFlashPoint> [0..1] ?
```

```
   <com:dangerousGoodsRegulations> com:_DangerousGoodsRegulationsEnum </com:dangerousGoodsRegulations> [0..1] ?
   <com:hazardCodeIdentification> com:String </com:hazardCodeIdentification> [0..1] ?
   <com:hazardCodeVersionNumber> com:NonNegativeInteger </com:hazardCodeVersionNumber> [0..1] ?
   <com:hazardSubstanceItemPageNumber> com:String </com:hazardSubstanceItemPageNumber> [0..1] ?
   <com:tremCardNumber> com:String </com:tremCardNumber> [0..1] ?
   <com:undgNumber> com:String </com:undgNumber> [0..1] ?
   <com:volumeOfDangerousGoods> com:CubicMetres </com:volumeOfDangerousGoods> [0..1] ?
   <com:weightOfDangerousGoods> com:Tonnes </com:weightOfDangerousGoods> [0..1] ?
   <com:_hazardousMaterialsExtension> com:_HazardousMaterialsExtensionType </com:_hazardousMaterialsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="HazardousMaterials">
   <xs:sequence>
      <xs:element name="chemicalName" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
      <xs:element name="dangerousGoodsFlashPoint" type="com:TemperatureCelsius" minOccurs="0" maxOccurs="1"/>
      <xs:element name="dangerousGoodsRegulations" type="com:_DangerousGoodsRegulationsEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="hazardCodeIdentification" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="hazardCodeVersionNumber" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
      <xs:element name="hazardSubstanceItemPageNumber" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="tremCardNumber" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="undgNumber" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="volumeOfDangerousGoods" type="com:CubicMetres" minOccurs="0" maxOccurs="1"/>
      <xs:element name="weightOfDangerousGoods" type="com:Tonnes" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_hazardousMaterialsExtension" type="com:_HazardousMaterialsExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: HeaviestAxleWeightCharacteristic

Super-types:	None
Sub-types:	None

Name	HeaviestAxleWeightCharacteristic
Abstract	no
Documentation	Weight characteristic of the heaviest axle on the vehicle.

XML Instance Representation

```
<...>
   <com:comparisonOperator> com:_ComparisonOperatorEnum </com:comparisonOperator> [1] ?
   <com:heaviestAxleWeight> com:Tonnes </com:heaviestAxleWeight> [1] ?
   <com:_heaviestAxleWeightCharacteristicExtension> com:_ExtensionType
   </com:_heaviestAxleWeightCharacteristicExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="HeaviestAxleWeightCharacteristic">
   <xs:sequence>
      <xs:element name="comparisonOperator" type="com:_ComparisonOperatorEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="heaviestAxleWeight" type="com:Tonnes" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_heaviestAxleWeightCharacteristicExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: HeightCharacteristic

Super-types:	None
Sub-types:	None

Name	HeightCharacteristic
Abstract	no
Documentation	Height characteristic of a vehicle.

XML Instance Representation

```
<...>
   <com:comparisonOperator> com:_ComparisonOperatorEnum </com:comparisonOperator> [1] ?
   <com:vehicleHeight> com:MetresAsFloat </com:vehicleHeight> [1] ?
   <com:_heightCharacteristicExtension> com:_ExtensionType </com:_heightCharacteristicExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="HeightCharacteristic">
   <xs:sequence>
      <xs:element name="comparisonOperator" type="com:_ComparisonOperatorEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="vehicleHeight" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_heightCharacteristicExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: InstanceOfDayWithinMonth

Super-types:	DayWeekMonth < **InstanceOfDayWithinMonth** (by extension)
Sub-types:	None

Name	InstanceOfDayWithinMonth
Abstract	no
Documentation	Specification of periods defined by the instance of a specific weekday within a month (e.g. 3rd Tuesday in May)

XML Instance Representation

```
<...>
   <com:applicableDay> com:_DayEnum </com:applicableDay> [0..7] ?
   <com:applicableMonth> com:_MonthOfYearEnum </com:applicableMonth> [0..12] ?
   <com:_dayWeekMonthExtension> com:_DayWeekMonthExtensionType </com:_dayWeekMonthExtension> [0..1]
   <com:applicableInstanceOfDayWithinMonth> com:_InstanceOfDayEnum </com:applicableInstanceOfDayWithinMonth> [1..5] ?
   <com:_instanceOfDayWithinMonthExtension> com:_ExtensionType </com:_instanceOfDayWithinMonthExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="InstanceOfDayWithinMonth">
   <xs:complexContent>
      <xs:extension base="com:DayWeekMonth">
         <xs:sequence>
            <xs:element name="applicableInstanceOfDayWithinMonth" type="com:_InstanceOfDayEnum" minOccurs="1"
            maxOccurs="5"/>
            <xs:element name="_instanceOfDayWithinMonthExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: InternationalIdentifier

Super-types:	None
Sub-types:	None

Name	InternationalIdentifier
Abstract	no
Documentation	An identifier/name whose range is specific to the particular country.

XML Instance Representation

```
<...>
   <com:country> com:CountryCode </com:country> [1] ?
   <com:nationalIdentifier> com:String </com:nationalIdentifier> [1] ?
   <com:_internationalIdentifierExtension> com:_ExtensionType </com:_internationalIdentifierExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="InternationalIdentifier">
   <xs:sequence>
      <xs:element name="country" type="com:CountryCode" minOccurs="1" maxOccurs="1"/>
      <xs:element name="nationalIdentifier" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_internationalIdentifierExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: LengthCharacteristic

Super-types:	None
Sub-types:	None

Name	LengthCharacteristic
Abstract	no
Documentation	Length characteristic of a vehicle.

XML Instance Representation

```
<...>
   <com:comparisonOperator> com:_ComparisonOperatorEnum </com:comparisonOperator> [1] ?
   <com:vehicleLength> com:MetresAsFloat </com:vehicleLength> [1] ?
   <com:_lengthCharacteristicExtension> com:_ExtensionType </com:_lengthCharacteristicExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LengthCharacteristic">
   <xs:sequence>
      <xs:element name="comparisonOperator" type="com:_ComparisonOperatorEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="vehicleLength" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_lengthCharacteristicExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: MultilingualString

Super-types:	None
Sub-types:	None

Name	MultilingualString
Abstract	no

XML Instance Representation

```
<...>
   <com:values> [1]
      <com:value> com:MultilingualStringValue </com:value> [1..*]
   </com:values>
</...>
```

Schema Component Representation

```
<xs:complexType name="MultilingualString">
   <xs:sequence>
      <xs:element name="values">
         <xs:complexType>
            <xs:sequence>
               <xs:element name="value" type="com:MultilingualStringValue" maxOccurs="unbounded"/>
            </xs:sequence>
         </xs:complexType>
      </xs:element>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: MultilingualStringValue

Super-types:	xs:string < MultilingualStringValueType (by restriction) < **MultilingualStringValue** (by extension)
Sub-types:	None

Name	MultilingualStringValue
Abstract	no

XML Instance Representation

```
<...
 lang="xs:language [0..1]">
   com:MultilingualStringValueType
</...>
```

Schema Component Representation

```
<xs:complexType name="MultilingualStringValue">
   <xs:simpleContent>
      <xs:extension base="com:MultilingualStringValueType">
         <xs:attribute name="lang" type="xs:language"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: NamedArea

Super-types:	None
Sub-types:	None

Name	NamedArea
Abstract	yes
Documentation	An abstract hook class to hook in a model for a named area.

XML Instance Representation

```
<...>
   <com:_namedAreaExtension> com:_ExtensionType </com:_namedAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NamedArea" abstract="true">
   <xs:sequence>
      <xs:element name="_namedAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: NumberOfAxlesCharacteristic

Super-types:	None
Sub-types:	None

Name	NumberOfAxlesCharacteristic

Abstract	no
Documentation	Number of axles characteristic of a vehicle.

XML Instance Representation

```
<...>
   <com:comparisonOperator> com:_ComparisonOperatorEnum </com:comparisonOperator> [1] ?
   <com:numberOfAxles> com:NonNegativeInteger </com:numberOfAxles> [1] ?
   <com:_numberOfAxlesCharacteristicExtension> com:_ExtensionType </com:_numberOfAxlesCharacteristicExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NumberOfAxlesCharacteristic">
   <xs:sequence>
      <xs:element name="comparisonOperator" type="com:_ComparisonOperatorEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="numberOfAxles" type="com:NonNegativeInteger" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_numberOfAxlesCharacteristicExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OverallPeriod

Super-types:	None
Sub-types:	None

Name	OverallPeriod
Abstract	no
Documentation	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).

XML Instance Representation

```
<...>
   <com:overallStartTime> com:DateTime </com:overallStartTime> [1] ?
   <com:overallEndTime> com:DateTime </com:overallEndTime> [0..1] ?
   <com:validPeriod> com:Period </com:validPeriod> [0..*] ?
   <com:exceptionPeriod> com:Period </com:exceptionPeriod> [0..*] ?
   <com:_overallPeriodExtension> com:_ExtensionType </com:_overallPeriodExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OverallPeriod">
   <xs:sequence>
      <xs:element name="overallStartTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
      <xs:element name="overallEndTime" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
      <xs:element name="validPeriod" type="com:Period" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="exceptionPeriod" type="com:Period" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="_overallPeriodExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: PayloadPublication

Super-types:	None
Sub-types:	None

Name	PayloadPublication
Abstract	yes
Documentation	A payload publication of traffic related information or associated management information created at a specific point in time that can be exchanged via a DATEX II interface.

XML Instance Representation

```
<...
 lang="com:Language [1] ?"
 modelBaseVersion="3 [1]"
 extensionName="xs:string [0..1]"
 extensionVersion="xs:string [0..1]"
 profileName="xs:string [0..1]"
 profileVersion="xs:string [0..1]">
   <com:publicationTime> com:DateTime </com:publicationTime> [1] ?
   <com:publicationCreator> com:InternationalIdentifier </com:publicationCreator> [1]
   <com:_payloadPublicationExtension> com:_ExtensionType </com:_payloadPublicationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PayloadPublication" abstract="true">
   <xs:sequence>
      <xs:element name="publicationTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
      <xs:element name="publicationCreator" type="com:InternationalIdentifier"/>
      <xs:element name="_payloadPublicationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
   <xs:attribute name="lang" type="com:Language" use="required"/>
   <xs:attribute name="modelBaseVersion" type="xs:string" use="required" fixed="3"/>
   <xs:attribute name="extensionName" type="xs:string" use="optional"/>
   <xs:attribute name="extensionVersion" type="xs:string" use="optional"/>
   <xs:attribute name="profileName" type="xs:string" use="optional"/>
```

```
   <xs:attribute name="profileVersion" type="xs:string" use="optional"/>
</xs:complexType>
```

top

Complex Type: Period

Super-types:	None
Sub-types:	None

Name	Period
Abstract	no
Documentation	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.

XML Instance Representation

```
<...>
   <com:startOfPeriod> com:DateTime </com:startOfPeriod> [0..1] ?
   <com:endOfPeriod> com:DateTime </com:endOfPeriod> [0..1] ?
   <com:periodName> com:MultilingualString </com:periodName> [0..1] ?
   <com:recurringTimePeriodOfDay> com:TimePeriodOfDay </com:recurringTimePeriodOfDay> [0..*] ?
   <com:recurringDayWeekMonthPeriod> com:DayWeekMonth </com:recurringDayWeekMonthPeriod> [0..*] ?
   <com:recurringSpecialDay> com:SpecialDay </com:recurringSpecialDay> [0..*] ?
   <com:_periodExtension> com:_PeriodExtensionType </com:_periodExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Period">
   <xs:sequence>
      <xs:element name="startOfPeriod" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
      <xs:element name="endOfPeriod" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
      <xs:element name="periodName" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="recurringTimePeriodOfDay" type="com:TimePeriodOfDay" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="recurringDayWeekMonthPeriod" type="com:DayWeekMonth" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="recurringSpecialDay" type="com:SpecialDay" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="_periodExtension" type="com:_PeriodExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: PublicHoliday

Super-types:	SpecialDay < **PublicHoliday** (by extension)
Sub-types:	None

Name	PublicHoliday
Abstract	no
Documentation	Specification of a specific public holiday in case specialDayType is set to 'publicHoliday'.

XML Instance Representation

```
<...>
   <com:intersectWithApplicableDays> com:Boolean </com:intersectWithApplicableDays> [1] ?
   <com:specialDayType> com:_SpecialDayTypeEnum </com:specialDayType> [1] ?
   <com:publicEvent> com:_PublicEventTypeEnum </com:publicEvent> [0..1] ?
   <com:namedArea> com:NamedArea </com:namedArea> [0..*]
   <com:_specialDayExtension> com:_ExtensionType </com:_specialDayExtension> [0..1]
   <com:publicHolidayName> com:MultilingualString </com:publicHolidayName> [1] ?
   <com:_publicHolidayExtension> com:_ExtensionType </com:_publicHolidayExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PublicHoliday">
   <xs:complexContent>
      <xs:extension base="com:SpecialDay">
         <xs:sequence>
            <xs:element name="publicHolidayName" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_publicHolidayExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Reference

Super-types:	None
Sub-types:	None

Name	Reference
Abstract	no

XML Instance Representation

```
<...
 id="xs:string [1]"/>
```

Schema Component Representation

```
<xs:complexType name="Reference">
   <xs:attribute name="id" type="xs:string" use="required"/>
</xs:complexType>
```

top

Complex Type: SpecialDay

Super-types:	None
Sub-types:	• PublicHoliday (by extension)

Name	SpecialDay
Abstract	no
Documentation	Specification of a special type of day, possibly also a public holiday. Can be country or region specific.

XML Instance Representation

```
<...>
   <com:intersectWithApplicableDays> com:Boolean </com:intersectWithApplicableDays> [1] ?
   <com:specialDayType> com:_SpecialDayTypeEnum </com:specialDayType> [1] ?
   <com:publicEvent> com:_PublicEventTypeEnum </com:publicEvent> [0..1] ?
   <com:namedArea> com:NamedArea </com:namedArea> [0..*]
   <com:_specialDayExtension> com:_ExtensionType </com:_specialDayExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SpecialDay">
   <xs:sequence>
      <xs:element name="intersectWithApplicableDays" type="com:Boolean" minOccurs="1" maxOccurs="1"/>
      <xs:element name="specialDayType" type="com:_SpecialDayTypeEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="publicEvent" type="com:_PublicEventTypeEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="namedArea" type="com:NamedArea" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="_specialDayExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: TimePeriodOfDay

Super-types:	None
Sub-types:	None

Name	TimePeriodOfDay
Abstract	no
Documentation	Specification of a continuous period of time within a 24 hour period.

XML Instance Representation

```
<...>
   <com:startTimeOfPeriod> com:Time </com:startTimeOfPeriod> [1] ?
   <com:endTimeOfPeriod> com:Time </com:endTimeOfPeriod> [1] ?
   <com:_timePeriodOfDayExtension> com:_ExtensionType </com:_timePeriodOfDayExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TimePeriodOfDay">
   <xs:sequence>
      <xs:element name="startTimeOfPeriod" type="com:Time" minOccurs="1" maxOccurs="1"/>
      <xs:element name="endTimeOfPeriod" type="com:Time" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_timePeriodOfDayExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: Validity

Super-types:	None
Sub-types:	None

Name	Validity
Abstract	no
Documentation	Specification of validity, either explicitly or by a validity time period specification which may be discontinuous.

XML Instance Representation

```
<...>
   <com:validityStatus> com:_ValidityStatusEnum </com:validityStatus> [1] ?
   <com:overrunning> com:Boolean </com:overrunning> [0..1] ?
   <com:validityTimeSpecification> com:OverallPeriod </com:validityTimeSpecification> [1] ?
   <com:_validityExtension> com:_ExtensionType </com:_validityExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Validity">
   <xs:sequence>
      <xs:element name="validityStatus" type="com:_ValidityStatusEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="overrunning" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="validityTimeSpecification" type="com:OverallPeriod"/>
      <xs:element name="_validityExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: VehicleCharacteristics

Super-types:	None
Sub-types:	None

Name	VehicleCharacteristics
Abstract	no
Documentation	The characteristics of a vehicle, e.g. lorry of gross weight greater than 30 tonnes.

XML Instance Representation

```
<...>
   <com:fuelType> com:_FuelTypeEnum </com:fuelType> [0..*] ?
   <com:loadType> com:_LoadTypeEnum </com:loadType> [0..1] ?
   <com:vehicleEquipment> com:_VehicleEquipmentEnum </com:vehicleEquipment> [0..1] ?
   <com:vehicleType> com:_VehicleTypeEnum </com:vehicleType> [0..*] ?
   <com:vehicleUsage> com:_VehicleUsageEnum </com:vehicleUsage> [0..1] ?
   <com:yearOfFirstRegistration> com:Year </com:yearOfFirstRegistration> [0..1] ?
   <com:grossWeightCharacteristic> com:GrossWeightCharacteristic </com:grossWeightCharacteristic> [0..2]
   <com:heightCharacteristic> com:HeightCharacteristic </com:heightCharacteristic> [0..2]
   <com:lengthCharacteristic> com:LengthCharacteristic </com:lengthCharacteristic> [0..2]
   <com:widthCharacteristic> com:WidthCharacteristic </com:widthCharacteristic> [0..2]
   <com:heaviestAxleWeightCharacteristic> com:HeaviestAxleWeightCharacteristic
   </com:heaviestAxleWeightCharacteristic> [0..2]
   <com:numberOfAxlesCharacteristic> com:NumberOfAxlesCharacteristic </com:numberOfAxlesCharacteristic> [0..2]
   <com:emissions> com:Emissions </com:emissions> [0..1]
   <com:_vehicleCharacteristicsExtension> com:_VehicleCharacteristicsExtensionType
   </com:_vehicleCharacteristicsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VehicleCharacteristics">
   <xs:sequence>
      <xs:element name="fuelType" type="com:_FuelTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="loadType" type="com:_LoadTypeEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vehicleEquipment" type="com:_VehicleEquipmentEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vehicleType" type="com:_VehicleTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="vehicleUsage" type="com:_VehicleUsageEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="yearOfFirstRegistration" type="com:Year" minOccurs="0" maxOccurs="1"/>
      <xs:element name="grossWeightCharacteristic" type="com:GrossWeightCharacteristic" minOccurs="0" maxOccurs="2"/>
      <xs:element name="heightCharacteristic" type="com:HeightCharacteristic" minOccurs="0" maxOccurs="2"/>
      <xs:element name="lengthCharacteristic" type="com:LengthCharacteristic" minOccurs="0" maxOccurs="2"/>
      <xs:element name="widthCharacteristic" type="com:WidthCharacteristic" minOccurs="0" maxOccurs="2"/>
      <xs:element name="heaviestAxleWeightCharacteristic" type="com:HeaviestAxleWeightCharacteristic" minOccurs="0"
      maxOccurs="2"/>
      <xs:element name="numberOfAxlesCharacteristic" type="com:NumberOfAxlesCharacteristic" minOccurs="0"
      maxOccurs="2"/>
      <xs:element name="emissions" type="com:Emissions" minOccurs="0"/>
      <xs:element name="_vehicleCharacteristicsExtension" type="com:_VehicleCharacteristicsExtensionType"
      minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: VersionedReference

Super-types:	None
Sub-types:	None

Name	VersionedReference
Abstract	no

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [0..1]"/>
```

Schema Component Representation

```
<xs:complexType name="VersionedReference">
   <xs:attribute name="id" type="xs:string" use="required"/>
   <xs:attribute name="version" type="xs:string" use="optional"/>
</xs:complexType>
```

top

Complex Type: WidthCharacteristic

Super-types:	None

Sub-types:	None

Name WidthCharacteristic

Abstract no

Documentation Width characteristic of a vehicle.

XML Instance Representation

```
<...>
   <com:comparisonOperator> com:_ComparisonOperatorEnum </com:comparisonOperator> [1] ?
   <com:vehicleWidth> com:MetresAsFloat </com:vehicleWidth> [1] ?
   <com:_widthCharacteristicExtension> com:_ExtensionType </com:_widthCharacteristicExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="WidthCharacteristic">
   <xs:sequence>
      <xs:element name="comparisonOperator" type="com:_ComparisonOperatorEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="vehicleWidth" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_widthCharacteristicExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: _CalendarWeekWithinMonthEnum

Super-types:	xs:string < CalendarWeekWithinMonthEnum (by restriction) < **_CalendarWeekWithinMonthEnum** (by extension)
Sub-types:	None

Name _CalendarWeekWithinMonthEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:CalendarWeekWithinMonthEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_CalendarWeekWithinMonthEnum">
   <xs:simpleContent>
      <xs:extension base="com:CalendarWeekWithinMonthEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _ComparisonOperatorEnum

Super-types:	xs:string < ComparisonOperatorEnum (by restriction) < **_ComparisonOperatorEnum** (by extension)
Sub-types:	None

Name _ComparisonOperatorEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:ComparisonOperatorEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_ComparisonOperatorEnum">
   <xs:simpleContent>
      <xs:extension base="com:ComparisonOperatorEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DangerousGoodsRegulationsEnum

Super-types:	xs:string < DangerousGoodsRegulationsEnum (by restriction) < **_DangerousGoodsRegulationsEnum** (by extension)
Sub-types:	None

Name _DangerousGoodsRegulationsEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:DangerousGoodsRegulationsEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_DangerousGoodsRegulationsEnum">
   <xs:simpleContent>
      <xs:extension base="com:DangerousGoodsRegulationsEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DayEnum

Super-types:	xs:string < DayEnum (by restriction) < **_DayEnum** (by extension)
Sub-types:	None

Name	_DayEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:DayEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_DayEnum">
   <xs:simpleContent>
      <xs:extension base="com:DayEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DayWeekMonthExtensionType

Super-types:	None
Sub-types:	None

Name	_DayWeekMonthExtensionType
Abstract	no

XML Instance Representation

```
<...>
   <com:dayWeekMonthExtended> comx:DayWeekMonthExtended </com:dayWeekMonthExtended> [0..1]
   Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_DayWeekMonthExtensionType">
   <xs:sequence>
      <xs:element name="dayWeekMonthExtended" type="comx:DayWeekMonthExtended" minOccurs="0"/>
      <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: _EmissionClassificationEuroEnum

Super-types:	xs:string < EmissionClassificationEuroEnum (by restriction) < **_EmissionClassificationEuroEnum** (by extension)
Sub-types:	None

Name	_EmissionClassificationEuroEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="com:_EmissionClassificationEuroEnumExtensionType [0..1]">
   com:EmissionClassificationEuroEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_EmissionClassificationEuroEnum">
   <xs:simpleContent>
      <xs:extension base="com:EmissionClassificationEuroEnum">
         <xs:attribute name="_extendedValue" type="com:_EmissionClassificationEuroEnumExtensionType"/>
      </xs:extension>
```

```
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _EmissionsExtensionType

Super-types:	None
Sub-types:	None

Name _EmissionsExtensionType

Abstract no

XML Instance Representation

```
<...>
  <com:emissionsExtension> comx:EmissionsExtension </com:emissionsExtension> [0..1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_EmissionsExtensionType">
  <xs:sequence>
    <xs:element name="emissionsExtension" type="comx:EmissionsExtension" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: _ExtensionType

Super-types:	None
Sub-types:	None

Name _ExtensionType

Abstract no

XML Instance Representation

```
<...>
  Allow any elements from any namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_ExtensionType">
  <xs:sequence>
    <xs:any namespace="##any" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: _FuelTypeEnum

Super-types:	xs:string < FuelTypeEnum (by restriction) < **_FuelTypeEnum** (by extension)
Sub-types:	None

Name _FuelTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  com:FuelTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_FuelTypeEnum">
  <xs:simpleContent>
    <xs:extension base="com:FuelTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _HazardousMaterialsExtensionType

Super-types:	None
Sub-types:	None

Name _HazardousMaterialsExtensionType

Abstract no

XML Instance Representation

```
<...>
   <com:dangerousGoodsExtended> comx:DangerousGoodsExtended </com:dangerousGoodsExtended> [0..1]
   Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_HazardousMaterialsExtensionType">
   <xs:sequence>
      <xs:element name="dangerousGoodsExtended" type="comx:DangerousGoodsExtended" minOccurs="0"/>
      <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: _InstanceOfDayEnum

Super-types:	xs:string < InstanceOfDayEnum (by restriction) < **_InstanceOfDayEnum** (by extension)
Sub-types:	None

Name	_InstanceOfDayEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:InstanceOfDayEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_InstanceOfDayEnum">
   <xs:simpleContent>
      <xs:extension base="com:InstanceOfDayEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _LoadTypeEnum

Super-types:	xs:string < LoadTypeEnum (by restriction) < **_LoadTypeEnum** (by extension)
Sub-types:	None

Name	_LoadTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="com:_LoadTypeEnumExtensionType [0..1]">
   com:LoadTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_LoadTypeEnum">
   <xs:simpleContent>
      <xs:extension base="com:LoadTypeEnum">
         <xs:attribute name="_extendedValue" type="com:_LoadTypeEnumExtensionType"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _LowEmissionLevelEnum

Super-types:	xs:string < LowEmissionLevelEnum (by restriction) < **_LowEmissionLevelEnum** (by extension)
Sub-types:	None

Name	_LowEmissionLevelEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:LowEmissionLevelEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_LowEmissionLevelEnum">
   <xs:simpleContent>
      <xs:extension base="com:LowEmissionLevelEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
```

```
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _MonthOfYearEnum

Super-types:	xs:string < MonthOfYearEnum (by restriction) < **_MonthOfYearEnum** (by extension)
Sub-types:	None

Name	_MonthOfYearEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  com:MonthOfYearEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_MonthOfYearEnum">
  <xs:simpleContent>
    <xs:extension base="com:MonthOfYearEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _PeriodExtensionType

Super-types:	None
Sub-types:	None

Name	_PeriodExtensionType
Abstract	no

XML Instance Representation

```
<...>
  <com:periodExtended> comx:PeriodExtended </com:periodExtended> [0..1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_PeriodExtensionType">
  <xs:sequence>
    <xs:element name="periodExtended" type="comx:PeriodExtended" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: _PublicEventTypeEnum

Super-types:	xs:string < PublicEventTypeEnum (by restriction) < **_PublicEventTypeEnum** (by extension)
Sub-types:	None

Name	_PublicEventTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  com:PublicEventTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_PublicEventTypeEnum">
  <xs:simpleContent>
    <xs:extension base="com:PublicEventTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _SpecialDayTypeEnum

Super-types:	xs:string < SpecialDayTypeEnum (by restriction) < **_SpecialDayTypeEnum** (by extension)
Sub-types:	None

Name _SpecialDayTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:SpecialDayTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_SpecialDayTypeEnum">
   <xs:simpleContent>
      <xs:extension base="com:SpecialDayTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _ValidityStatusEnum

Super-types:	xs:string < ValidityStatusEnum (by restriction) < **_ValidityStatusEnum** (by extension)
Sub-types:	None

Name _ValidityStatusEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:ValidityStatusEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_ValidityStatusEnum">
   <xs:simpleContent>
      <xs:extension base="com:ValidityStatusEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _VehicleCharacteristicsExtensionType

Super-types:	None
Sub-types:	None

Name _VehicleCharacteristicsExtensionType

Abstract no

XML Instance Representation

```
<...>
   <com:vehicleCharacteristicsExtended> comx:VehicleCharacteristicsExtended </com:vehicleCharacteristicsExtended>
   [0..1]
   Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_VehicleCharacteristicsExtensionType">
   <xs:sequence>
      <xs:element name="vehicleCharacteristicsExtended" type="comx:VehicleCharacteristicsExtended" minOccurs="0"/>
      <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: _VehicleEquipmentEnum

Super-types:	xs:string < VehicleEquipmentEnum (by restriction) < **_VehicleEquipmentEnum** (by extension)
Sub-types:	None

Name _VehicleEquipmentEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="com:_VehicleEquipmentEnumExtensionType [0..1]">
   com:VehicleEquipmentEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_VehicleEquipmentEnum">
  <xs:simpleContent>
    <xs:extension base="com:VehicleEquipmentEnum">
      <xs:attribute name="_extendedValue" type="com:_VehicleEquipmentEnumExtensionType"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _VehicleTypeEnum

Super-types:	xs:string < VehicleTypeEnum (by restriction) < **_VehicleTypeEnum** (by extension)
Sub-types:	None

Name _VehicleTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="com:_VehicleTypeEnumExtensionType [0..1]">
  com:VehicleTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_VehicleTypeEnum">
  <xs:simpleContent>
    <xs:extension base="com:VehicleTypeEnum">
      <xs:attribute name="_extendedValue" type="com:_VehicleTypeEnumExtensionType"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _VehicleUsageEnum

Super-types:	xs:string < VehicleUsageEnum (by restriction) < **_VehicleUsageEnum** (by extension)
Sub-types:	None

Name _VehicleUsageEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="com:_VehicleUsageEnumExtensionType [0..1]">
  com:VehicleUsageEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_VehicleUsageEnum">
  <xs:simpleContent>
    <xs:extension base="com:VehicleUsageEnum">
      <xs:attribute name="_extendedValue" type="com:_VehicleUsageEnumExtensionType"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _WeatherRelatedRoadConditionTypeEnum

Super-types:	xs:string < WeatherRelatedRoadConditionTypeEnum (by restriction) < **_WeatherRelatedRoadConditionTypeEnum** (by extension)
Sub-types:	None

Name _WeatherRelatedRoadConditionTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  com:WeatherRelatedRoadConditionTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_WeatherRelatedRoadConditionTypeEnum">
  <xs:simpleContent>
    <xs:extension base="com:WeatherRelatedRoadConditionTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _WeightTypeEnum

Super-types:	xs:string < WeightTypeEnum (by restriction) < **_WeightTypeEnum** (by extension)
Sub-types:	None

Name _WeightTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="com:_WeightTypeEnumExtensionType [0..1]">
   com:WeightTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_WeightTypeEnum">
   <xs:simpleContent>
      <xs:extension base="com:WeightTypeEnum">
         <xs:attribute name="_extendedValue" type="com:_WeightTypeEnumExtensionType"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Simple Type: AngleInDegrees

Super-types:	xs:nonNegativeInteger < NonNegativeInteger (by restriction) < **AngleInDegrees** (by restriction)
Sub-types:	None

Name AngleInDegrees

Content

- Base XSD Type: nonNegativeInteger
- 0 <= *value* <= 359

Documentation An integer number representing an angle in whole degrees between 0 and 359.

Schema Component Representation

```
<xs:simpleType name="AngleInDegrees">
   <xs:restriction base="com:NonNegativeInteger">
      <xs:minInclusive value="0"/>
      <xs:maxInclusive value="359"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: Boolean

Super-types:	xs:boolean < **Boolean** (by restriction)
Sub-types:	None

Name Boolean

Content

- Base XSD Type: boolean

Documentation Boolean has the value space required to support the mathematical concept of binary-valued logic: {true, false}.

Schema Component Representation

```
<xs:simpleType name="Boolean">
   <xs:restriction base="xs:boolean"/>
</xs:simpleType>
```

top

Simple Type: CalendarWeekWithinMonthEnum

Super-types:	xs:string < **CalendarWeekWithinMonthEnum** (by restriction)
Sub-types:	_CalendarWeekWithinMonthEnum (by extension)

Name CalendarWeekWithinMonthEnum

Content

- Base XSD Type: string
- *value* comes from list: {'firstWeek'|'secondWeek'|'thirdWeek'|'fourthWeek'|'fifthWeek'|'sixthWeek'|'lastWeek'|'_extended'}

Documentation Calendar week within month (see ISO8601).

Schema Component Representation

```
<xs:simpleType name="CalendarWeekWithinMonthEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="firstWeek"/>
      <xs:enumeration value="secondWeek"/>
```

```
      <xs:enumeration value="thirdWeek"/>
      <xs:enumeration value="fourthWeek"/>
      <xs:enumeration value="fifthWeek"/>
      <xs:enumeration value="sixthWeek"/>
      <xs:enumeration value="lastWeek"/>
      <xs:enumeration value="_extended"/>
    </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ComparisonOperatorEnum

Super-types:	xs:string < **ComparisonOperatorEnum** (by restriction)
Sub-types:	• _ComparisonOperatorEnum (by extension)

Name ComparisonOperatorEnum

Content

- Base XSD Type: string
- *value* comes from list: {'equalTo'|'greaterThan'|'greaterThanOrEqualTo'|'lessThan'|'lessThanOrEqualTo'|'_extended'}

Documentation Logical comparison operations.

Schema Component Representation

```
<xs:simpleType name="ComparisonOperatorEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="equalTo"/>
      <xs:enumeration value="greaterThan"/>
      <xs:enumeration value="greaterThanOrEqualTo"/>
      <xs:enumeration value="lessThan"/>
      <xs:enumeration value="lessThanOrEqualTo"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: CountryCode

Super-types:	xs:string < String (by restriction) < **CountryCode** (by restriction)
Sub-types:	None

Name CountryCode

Content

- Base XSD Type: string
- *length* <= 1024
- *length* <= 2

Documentation EN ISO 3166-1 alpha-2 two-letter country code

Schema Component Representation

```
<xs:simpleType name="CountryCode">
   <xs:restriction base="com:String">
      <xs:maxLength value="2"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: CubicMetres

Super-types:	xs:float < Float (by restriction) < **CubicMetres** (by restriction)
Sub-types:	None

Name CubicMetres

Content

- Base XSD Type: float

Documentation A volumetric measure defined in cubic metres.

Schema Component Representation

```
<xs:simpleType name="CubicMetres">
   <xs:restriction base="com:Float"/>
</xs:simpleType>
```

top

Simple Type: DangerousGoodsRegulationsEnum

Super-types:	xs:string < **DangerousGoodsRegulationsEnum** (by restriction)
Sub-types:	• _DangerousGoodsRegulationsEnum (by extension)

Name DangerousGoodsRegulationsEnum

Content

- Base XSD Type: string
- *value* comes from list: {'adr'|'iataIcao'|'imoImdg'|'railroadDangerousGoodsBook'|'_extended'}

Documentation Types of dangerous goods regulations.

Schema Component Representation

```
<xs:simpleType name="DangerousGoodsRegulationsEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="adr"/>
      <xs:enumeration value="iataIcao"/>
      <xs:enumeration value="imoImdg"/>
      <xs:enumeration value="railroadDangerousGoodsBook"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: Date

Super-types:	xs:date < **Date** (by restriction)
Sub-types:	None

Name Date

Content

- Base XSD Type: date

Documentation A combination of year, month and day integer-valued properties plus an optional timezone property. It represents an interval of exactly one day, beginning on the first moment of the day in the timezone, i.e. '00:00:00' up to but not including '24:00:00'.

Schema Component Representation

```
<xs:simpleType name="Date">
   <xs:restriction base="xs:date"/>
</xs:simpleType>
```

top

Simple Type: DateTime

Super-types:	xs:dateTime < **DateTime** (by restriction)
Sub-types:	None

Name DateTime

Content

- Base XSD Type: dateTime

Documentation A combination of integer-valued year, month, day, hour, minute properties, a decimal-valued second property and a time zone property from which it is possible to determine the local time, the equivalent UTC time and the time zone offset from UTC.

Schema Component Representation

```
<xs:simpleType name="DateTime">
   <xs:restriction base="xs:dateTime"/>
</xs:simpleType>
```

top

Simple Type: DayEnum

Super-types:	xs:string < **DayEnum** (by restriction)
Sub-types:	_DayEnum (by extension)

Name DayEnum

Content

- Base XSD Type: string
- *value* comes from list: {'monday'|'tuesday'|'wednesday'|'thursday'|'friday'|'saturday'|'sunday'|'_extended'}

Documentation Days of the week.

Schema Component Representation

```
<xs:simpleType name="DayEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="monday"/>
      <xs:enumeration value="tuesday"/>
      <xs:enumeration value="wednesday"/>
      <xs:enumeration value="thursday"/>
      <xs:enumeration value="friday"/>
      <xs:enumeration value="saturday"/>
      <xs:enumeration value="sunday"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: Decimal

Super-types:	xs:decimal < **Decimal** (by restriction)
Sub-types:	None

Name Decimal

Content

- Base XSD Type: decimal

Documentation A decimal number whose value space is the set of numbers that can be obtained by multiplying an integer by a non-positive power of ten, i.e., expressible as i × 10^-n where i and n are integers and n >= 0.

Schema Component Representation

```
<xs:simpleType name="Decimal">
   <xs:restriction base="xs:decimal"/>
</xs:simpleType>
```

top

Simple Type: EmissionClassificationEuroEnum

Super-types:	xs:string < **EmissionClassificationEuroEnum** (by restriction)
Sub-types:	• _EmissionClassificationEuroEnum (by extension)

Name EmissionClassificationEuroEnum

Content

- Base XSD Type: string
- *value* comes from list:
  {'euro5'|'euro5a'|'euro5b'|'euro6'|'euro6a'|'euro6b'|'euro6c'|'euroV'|'euroVI'|'other'|'_extended'}

Documentation Classification of emission according to the Euro emission classification (based on serveral amendments on 1970 Directive 70/220/EEC). Note htat vehicleType as well as fuelType are mandatory to provide to make this classification explicit.

Schema Component Representation

```
<xs:simpleType name="EmissionClassificationEuroEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="euro5"/>
      <xs:enumeration value="euro5a"/>
      <xs:enumeration value="euro5b"/>
      <xs:enumeration value="euro6"/>
      <xs:enumeration value="euro6a"/>
      <xs:enumeration value="euro6b"/>
      <xs:enumeration value="euro6c"/>
      <xs:enumeration value="euroV"/>
      <xs:enumeration value="euroVI"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: Float

Super-types:	xs:float < **Float** (by restriction)
Sub-types:	• CubicMetres (by restriction) • MetresAsFloat (by restriction) • Percentage (by restriction) • TemperatureCelsius (by restriction) • Tonnes (by restriction)

Name Float

Content

- Base XSD Type: float

Documentation A floating point number whose value space consists of the values m × 2^e, where m is an integer whose absolute value is less than 2^24, and e is an integer between -149 and 104, inclusive.

Schema Component Representation

```
<xs:simpleType name="Float">
   <xs:restriction base="xs:float"/>
</xs:simpleType>
```

top

Simple Type: FuelTypeEnum

Super-types:	xs:string < **FuelTypeEnum** (by restriction)
Sub-types:	• _FuelTypeEnum (by extension)

Name FuelTypeEnum

Content

- Base XSD Type: string

- *value* comes from list:
{'all'|'battery'|'biodiesel'|'diesel'|'dieselBatteryHybrid'|'ethanol'|'hydrogen'|'liquidGas'|'lpg'|'methane'|'petrol'|'petrol95Octane'|'petrol98Octane'|'petrolBatt

Documentation Type of fuel used by a vehicle.

Schema Component Representation

```
<xs:simpleType name="FuelTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="all"/>
    <xs:enumeration value="battery"/>
    <xs:enumeration value="biodiesel"/>
    <xs:enumeration value="diesel"/>
    <xs:enumeration value="dieselBatteryHybrid"/>
    <xs:enumeration value="ethanol"/>
    <xs:enumeration value="hydrogen"/>
    <xs:enumeration value="liquidGas"/>
    <xs:enumeration value="lpg"/>
    <xs:enumeration value="methane"/>
    <xs:enumeration value="petrol"/>
    <xs:enumeration value="petrol95Octane"/>
    <xs:enumeration value="petrol98Octane"/>
    <xs:enumeration value="petrolBatteryHybrid"/>
    <xs:enumeration value="petrolLeaded"/>
    <xs:enumeration value="petrolUnleaded"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: InstanceOfDayEnum

Super-types:	xs:string < **InstanceOfDayEnum** (by restriction)
Sub-types:	• _InstanceOfDayEnum (by extension)

Name InstanceOfDayEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'firstInstance'|'secondInstance'|'thirdInstance'|'fourthInstance'|'fifthInstance'|'lastInstance'|'_extended'}

Documentation Instances of a day of the week in a month

Schema Component Representation

```
<xs:simpleType name="InstanceOfDayEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="firstInstance"/>
    <xs:enumeration value="secondInstance"/>
    <xs:enumeration value="thirdInstance"/>
    <xs:enumeration value="fourthInstance"/>
    <xs:enumeration value="fifthInstance"/>
    <xs:enumeration value="lastInstance"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: Integer

Super-types:	xs:integer < **Integer** (by restriction)
Sub-types:	None

Name Integer

Content

- Base XSD Type: integer

Documentation An integer number whose value space is the set {-2147483648, -2147483647, -2147483646, ..., -2, -1, 0, 1, 2, ..., 2147483645, 2147483646, 2147483647}.

Schema Component Representation

```
<xs:simpleType name="Integer">
  <xs:restriction base="xs:integer"/>
</xs:simpleType>
```

top

Simple Type: Language

Super-types:	xs:language < **Language** (by restriction)
Sub-types:	None

Name Language

Content

- Base XSD Type: language

Documentation A language datatype, identifies a specified language by an ISO 639-1 2-alpha code.

Schema Component Representation

```
<xs:simpleType name="Language">
  <xs:restriction base="xs:language"/>
</xs:simpleType>
```

top

Simple Type: LoadTypeEnum

Super-types:	xs:string < **LoadTypeEnum** (by restriction)
Sub-types:	• _LoadTypeEnum (by extension)

Name LoadTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'abnormalLoad'|'ammunition'|'chemicals'|'combustibleMaterials'|'corrosiveMaterials'|'debris'|'empty'|'explosiveMaterials'|'extraHighLoad'|'extraLongLo

Documentation Types of load carried by a vehicle.

Schema Component Representation

```
<xs:simpleType name="LoadTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="abnormalLoad"/>
    <xs:enumeration value="ammunition"/>
    <xs:enumeration value="chemicals"/>
    <xs:enumeration value="combustibleMaterials"/>
    <xs:enumeration value="corrosiveMaterials"/>
    <xs:enumeration value="debris"/>
    <xs:enumeration value="empty"/>
    <xs:enumeration value="explosiveMaterials"/>
    <xs:enumeration value="extraHighLoad"/>
    <xs:enumeration value="extraLongLoad"/>
    <xs:enumeration value="extraWideLoad"/>
    <xs:enumeration value="fuel"/>
    <xs:enumeration value="glass"/>
    <xs:enumeration value="goods"/>
    <xs:enumeration value="hazardousMaterials"/>
    <xs:enumeration value="liquid"/>
    <xs:enumeration value="livestock"/>
    <xs:enumeration value="materials"/>
    <xs:enumeration value="materialsDangerousForPeople"/>
    <xs:enumeration value="materialsDangerousForTheEnvironment"/>
    <xs:enumeration value="materialsDangerousForWater"/>
    <xs:enumeration value="oil"/>
    <xs:enumeration value="ordinary"/>
    <xs:enumeration value="perishableProducts"/>
    <xs:enumeration value="petrol"/>
    <xs:enumeration value="pharmaceuticalMaterials"/>
    <xs:enumeration value="radioactiveMaterials"/>
    <xs:enumeration value="refrigeratedGoods"/>
    <xs:enumeration value="refuse"/>
    <xs:enumeration value="toxicMaterials"/>
    <xs:enumeration value="vehicles"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: LongString

Super-types:	xs:string < **LongString** (by restriction)
Sub-types:	None

Name LongString

Content

- Base XSD Type: string

Documentation A character string with no specified length limit, whose value space is the set of finite-length sequences of characters. Every character has a corresponding Universal Character Set code point (as defined in ISO/IEC 10646), which is an integer.

Schema Component Representation

```
<xs:simpleType name="LongString">
  <xs:restriction base="xs:string"/>
</xs:simpleType>
```

top

Simple Type: LowEmissionLevelEnum

Super-types:	xs:string < **LowEmissionLevelEnum** (by restriction)
Sub-types:	• _LowEmissionLevelEnum (by extension)

Name LowEmissionLevelEnum

Content

- Base XSD Type: string

- *value* comes from list: {'lowLevelEmission'|'freeOfEmission'|'_extended'}

Documentation The emission level of a vehicle.

Schema Component Representation

```
<xs:simpleType name="LowEmissionLevelEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="lowLevelEmission"/>
    <xs:enumeration value="freeOfEmission"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: MetresAsFloat

Super-types:	xs:float < Float (by restriction) < **MetresAsFloat** (by restriction)
Sub-types:	None

Name MetresAsFloat

Content

- Base XSD Type: float

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

Schema Component Representation

```
<xs:simpleType name="MetresAsFloat">
  <xs:restriction base="com:Float"/>
</xs:simpleType>
```

top

Simple Type: MetresAsNonNegativeInteger

Super-types:	xs:nonNegativeInteger < NonNegativeInteger (by restriction) < **MetresAsNonNegativeInteger** (by restriction)
Sub-types:	None

Name MetresAsNonNegativeInteger

Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

```
<xs:simpleType name="MetresAsNonNegativeInteger">
  <xs:restriction base="com:NonNegativeInteger"/>
</xs:simpleType>
```

top

Simple Type: MonthOfYearEnum

Super-types:	xs:string < **MonthOfYearEnum** (by restriction)
Sub-types:	_MonthOfYearEnum (by extension)

Name MonthOfYearEnum

Content

- Base XSD Type: string
- *value* comes from list: {'january'|'february'|'march'|'april'|'may'|'june'|'july'|'august'|'september'|'october'|'november'|'december'|'_extended'}

Documentation A list of the months of the year.

Schema Component Representation

```
<xs:simpleType name="MonthOfYearEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="january"/>
    <xs:enumeration value="february"/>
    <xs:enumeration value="march"/>
    <xs:enumeration value="april"/>
    <xs:enumeration value="may"/>
    <xs:enumeration value="june"/>
    <xs:enumeration value="july"/>
    <xs:enumeration value="august"/>
    <xs:enumeration value="september"/>
    <xs:enumeration value="october"/>
    <xs:enumeration value="november"/>
    <xs:enumeration value="december"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: MultilingualStringValueType

Super-types:	xs:string < **MultilingualStringValueType** (by restriction)

Sub-types:

- MultilingualStringValue (by extension)

Name MultilingualStringValueType

Content

- Base XSD Type: string
- *length* <= 1024

Schema Component Representation

```
<xs:simpleType name="MultilingualStringValueType">
  <xs:restriction base="xs:string">
    <xs:maxLength value="1024"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: NonNegativeInteger

Super-types: xs:nonNegativeInteger < **NonNegativeInteger** (by restriction)

Sub-types:

- AngleInDegrees (by restriction)
- MetresAsNonNegativeInteger (by restriction)
- Year (by restriction)

Name NonNegativeInteger

Content

- Base XSD Type: nonNegativeInteger

Documentation An integer number whose value space is the set {0, 1, 2, ..., 2147483645, 2147483646, 2147483647}.

Schema Component Representation

```
<xs:simpleType name="NonNegativeInteger">
  <xs:restriction base="xs:nonNegativeInteger"/>
</xs:simpleType>
```

top

Simple Type: Percentage

Super-types: xs:float < Float (by restriction) < **Percentage** (by restriction)

Sub-types: None

Name Percentage

Content

- Base XSD Type: float

Documentation A measure of percentage.

Schema Component Representation

```
<xs:simpleType name="Percentage">
  <xs:restriction base="com:Float"/>
</xs:simpleType>
```

top

Simple Type: PublicEventTypeEnum

Super-types: xs:string < **PublicEventTypeEnum** (by restriction)

Sub-types:

- _PublicEventTypeEnum (by extension)

Name PublicEventTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'agriculturalShow'|'airShow'|'artEvent'|'athleticsMeeting'|'commercialEvent'|'culturalEvent'|'ballGame'|'baseballGame'|'basketballGame'|'beerFestival'|

Documentation Types of public events.

Schema Component Representation

```
<xs:simpleType name="PublicEventTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="agriculturalShow"/>
    <xs:enumeration value="airShow"/>
    <xs:enumeration value="artEvent"/>
    <xs:enumeration value="athleticsMeeting"/>
    <xs:enumeration value="commercialEvent"/>
    <xs:enumeration value="culturalEvent"/>
    <xs:enumeration value="ballGame"/>
    <xs:enumeration value="baseballGame"/>
    <xs:enumeration value="basketballGame"/>
    <xs:enumeration value="beerFestival"/>
    <xs:enumeration value="bicycleRace"/>
    <xs:enumeration value="boatRace"/>
    <xs:enumeration value="boatShow"/>
    <xs:enumeration value="boxingTournament"/>
    <xs:enumeration value="bullFight"/>
```

```
      <xs:enumeration value="ceremonialEvent"/>
      <xs:enumeration value="concert"/>
      <xs:enumeration value="cricketMatch"/>
      <xs:enumeration value="exhibition"/>
      <xs:enumeration value="fair"/>
      <xs:enumeration value="festival"/>
      <xs:enumeration value="filmFestival"/>
      <xs:enumeration value="filmTVMaking"/>
      <xs:enumeration value="fireworkDisplay"/>
      <xs:enumeration value="flowerEvent"/>
      <xs:enumeration value="foodFestival"/>
      <xs:enumeration value="footballMatch"/>
      <xs:enumeration value="funfair"/>
      <xs:enumeration value="gardeningOrFlowerShow"/>
      <xs:enumeration value="golfTournament"/>
      <xs:enumeration value="hockeyGame"/>
      <xs:enumeration value="horseRaceMeeting"/>
      <xs:enumeration value="internationalSportsMeeting"/>
      <xs:enumeration value="majorEvent"/>
      <xs:enumeration value="marathon"/>
      <xs:enumeration value="market"/>
      <xs:enumeration value="match"/>
      <xs:enumeration value="motorShow"/>
      <xs:enumeration value="motorSportRaceMeeting"/>
      <xs:enumeration value="openAirConcert"/>
      <xs:enumeration value="parade"/>
      <xs:enumeration value="procession"/>
      <xs:enumeration value="raceMeeting"/>
      <xs:enumeration value="rugbyMatch"/>
      <xs:enumeration value="severalMajorEvents"/>
      <xs:enumeration value="show"/>
      <xs:enumeration value="showJumping"/>
      <xs:enumeration value="soundAndLightShow"/>
      <xs:enumeration value="sportsMeeting"/>
      <xs:enumeration value="stateOccasion"/>
      <xs:enumeration value="streetFestival"/>
      <xs:enumeration value="tennisTournament"/>
      <xs:enumeration value="theatricalEvent"/>
      <xs:enumeration value="tournament"/>
      <xs:enumeration value="tradeFair"/>
      <xs:enumeration value="waterSportsMeeting"/>
      <xs:enumeration value="wineFestival"/>
      <xs:enumeration value="winterSportsMeeting"/>
      <xs:enumeration value="unknown"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
    </xs:restriction>
  </xs:simpleType>
```

top

Simple Type: SpecialDayTypeEnum

Super-types:	xs:string < **SpecialDayTypeEnum** (by restriction)
Sub-types:	• _SpecialDayTypeEnum (by extension)

Name SpecialDayTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'dayBeforePublicHoliday'|'publicHoliday'|'dayFollowingPublicHoliday'|'longWeekendDay'|'inLieuOfPublicHoliday'|'schoolDay'|'schoolHolidays'|'publicE

Documentation Collection of special types of days.

Schema Component Representation

```
<xs:simpleType name="SpecialDayTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="dayBeforePublicHoliday"/>
    <xs:enumeration value="publicHoliday"/>
    <xs:enumeration value="dayFollowingPublicHoliday"/>
    <xs:enumeration value="longWeekendDay"/>
    <xs:enumeration value="inLieuOfPublicHoliday"/>
    <xs:enumeration value="schoolDay"/>
    <xs:enumeration value="schoolHolidays"/>
    <xs:enumeration value="publicEventDay"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: String

Super-types:	xs:string < **String** (by restriction)
Sub-types:	• CountryCode (by restriction)

Name String

Content

- Base XSD Type: string
- *length* <= 1024

Documentation A character string whose value space is the set of finite-length sequences of characters. Every character has

a corresponding Universal Character Set code point (as defined in ISO/IEC 10646), which is an integer.

Schema Component Representation

```
<xs:simpleType name="String">
   <xs:restriction base="xs:string">
      <xs:maxLength value="1024"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TemperatureCelsius

Super-types:	xs:float < Float (by restriction) < **TemperatureCelsius** (by restriction)
Sub-types:	None

Name TemperatureCelsius

Content

- Base XSD Type: float

Documentation A measure of temperature defined in degrees Celsius.

Schema Component Representation

```
<xs:simpleType name="TemperatureCelsius">
   <xs:restriction base="com:Float"/>
</xs:simpleType>
```

top

Simple Type: Time

Super-types:	xs:time < **Time** (by restriction)
Sub-types:	None

Name Time

Content

- Base XSD Type: time

Documentation An instant of time that recurs every day. The value space of time is the space of time of day values as defined in § 5.3 of [ISO 8601]. Specifically, it is a set of zero-duration daily time instances.

Schema Component Representation

```
<xs:simpleType name="Time">
   <xs:restriction base="xs:time"/>
</xs:simpleType>
```

top

Simple Type: Tonnes

Super-types:	xs:float < Float (by restriction) < **Tonnes** (by restriction)
Sub-types:	None

Name Tonnes

Content

- Base XSD Type: float

Documentation A measure of weight defined in metric tonnes.

Schema Component Representation

```
<xs:simpleType name="Tonnes">
   <xs:restriction base="com:Float"/>
</xs:simpleType>
```

top

Simple Type: Url

Super-types:	xs:anyURI < **Url** (by restriction)
Sub-types:	None

Name Url

Content

- Base XSD Type: anyURI

Documentation A Uniform Resource Locator (URL) address comprising a compact string of characters for a resource available on the Internet.

Schema Component Representation

```
<xs:simpleType name="Url">
   <xs:restriction base="xs:anyURI"/>
</xs:simpleType>
```

top

Simple Type: ValidityStatusEnum

Super-types:	xs:string < **ValidityStatusEnum** (by restriction)
Sub-types:	• _ValidityStatusEnum (by extension)

Name ValidityStatusEnum

Content

- Base XSD Type: string
- *value* comes from list: {'active'|'planned'|'suspended'|'definedByValidityTimeSpec'|'_extended'}

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

Schema Component Representation

```
<xs:simpleType name="ValidityStatusEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="active"/>
    <xs:enumeration value="planned"/>
    <xs:enumeration value="suspended"/>
    <xs:enumeration value="definedByValidityTimeSpec"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: VehicleEquipmentEnum

Super-types:	xs:string < **VehicleEquipmentEnum** (by restriction)
Sub-types:	• _VehicleEquipmentEnum (by extension)

Name VehicleEquipmentEnum

Content

- Base XSD Type: string
- *value* comes from list: {'notUsingSnowChains'|'notUsingSnowChainsOrTyres'|'snowChainsInUse'|'snowTyresInUse'|'snowChainsOrTyresInUse'|'withoutSnowTyresOrChains

Documentation Types of vehicle equipment in use or on board.

Schema Component Representation

```
<xs:simpleType name="VehicleEquipmentEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="notUsingSnowChains"/>
    <xs:enumeration value="notUsingSnowChainsOrTyres"/>
    <xs:enumeration value="snowChainsInUse"/>
    <xs:enumeration value="snowTyresInUse"/>
    <xs:enumeration value="snowChainsOrTyresInUse"/>
    <xs:enumeration value="withoutSnowTyresOrChainsOnBoard"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: VehicleTypeEnum

Super-types:	xs:string < **VehicleTypeEnum** (by restriction)
Sub-types:	• _VehicleTypeEnum (by extension)

Name VehicleTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'agriculturalVehicle'|'anyVehicle'|'articulatedBus'|'articulatedTrolleyBus'|'articulatedVehicle'|'bicycle'|'bus'|'car'|'caravan'|'carOrLightVehicle'|'carWithCa

Documentation Types of vehicle.

Schema Component Representation

```
<xs:simpleType name="VehicleTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="agriculturalVehicle"/>
    <xs:enumeration value="anyVehicle"/>
    <xs:enumeration value="articulatedBus"/>
    <xs:enumeration value="articulatedTrolleyBus"/>
    <xs:enumeration value="articulatedVehicle"/>
    <xs:enumeration value="bicycle"/>
    <xs:enumeration value="bus"/>
    <xs:enumeration value="car"/>
    <xs:enumeration value="caravan"/>
    <xs:enumeration value="carOrLightVehicle"/>
    <xs:enumeration value="carWithCaravan"/>
    <xs:enumeration value="carWithTrailer"/>
    <xs:enumeration value="constructionOrMaintenanceVehicle"/>
    <xs:enumeration value="fourWheelDrive"/>
    <xs:enumeration value="heavyGoodsVehicle"/>
    <xs:enumeration value="heavyGoodsVehicleWithTrailer"/>
    <xs:enumeration value="heavyDutyTransporter"/>
    <xs:enumeration value="heavyVehicle"/>
    <xs:enumeration value="highSidedVehicle"/>
    <xs:enumeration value="lightCommercialVehicle"/>
    <xs:enumeration value="largeCar"/>
```

```
      <xs:enumeration value="largeGoodsVehicle"/>
      <xs:enumeration value="lightCommercialVehicleWithTrailer"/>
      <xs:enumeration value="longHeavyLorry"/>
      <xs:enumeration value="lorry"/>
      <xs:enumeration value="metro"/>
      <xs:enumeration value="minibus"/>
      <xs:enumeration value="moped"/>
      <xs:enumeration value="motorcycle"/>
      <xs:enumeration value="motorcycleWithSideCar"/>
      <xs:enumeration value="motorhome"/>
      <xs:enumeration value="motorscooter"/>
      <xs:enumeration value="passengerCar"/>
      <xs:enumeration value="smallCar"/>
      <xs:enumeration value="tanker"/>
      <xs:enumeration value="threeWheeledVehicle"/>
      <xs:enumeration value="trailer"/>
      <xs:enumeration value="tram"/>
      <xs:enumeration value="trolleyBus"/>
      <xs:enumeration value="twoWheeledVehicle"/>
      <xs:enumeration value="van"/>
      <xs:enumeration value="vehicleWithCaravan"/>
      <xs:enumeration value="vehicleWithCatalyticConverter"/>
      <xs:enumeration value="vehicleWithoutCatalyticConverter"/>
      <xs:enumeration value="vehicleWithTrailer"/>
      <xs:enumeration value="withEvenNumberedRegistrationPlates"/>
      <xs:enumeration value="withOddNumberedRegistrationPlates"/>
      <xs:enumeration value="unknown"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
    </xs:restriction>
  </xs:simpleType>
```

top

Simple Type: VehicleUsageEnum

Super-types:	xs:string < **VehicleUsageEnum** (by restriction)
Sub-types:	• _VehicleUsageEnum (by extension)

Name VehicleUsageEnum

Content

- Base XSD Type: string
- *value* comes from list: {'agricultural'|'carSharing'|'cityLogistics'|'commercial'|'emergencyServices'|'military'|'nonCommercial'|'patrol'|'recoveryServices'|'roadMaintenanceOrCo

Documentation Types of usage of a vehicle.

Schema Component Representation

```
<xs:simpleType name="VehicleUsageEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="agricultural"/>
    <xs:enumeration value="carSharing"/>
    <xs:enumeration value="cityLogistics"/>
    <xs:enumeration value="commercial"/>
    <xs:enumeration value="emergencyServices"/>
    <xs:enumeration value="military"/>
    <xs:enumeration value="nonCommercial"/>
    <xs:enumeration value="patrol"/>
    <xs:enumeration value="recoveryServices"/>
    <xs:enumeration value="roadMaintenanceOrConstruction"/>
    <xs:enumeration value="roadOperator"/>
    <xs:enumeration value="taxi"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: WeatherRelatedRoadConditionTypeEnum

Super-types:	xs:string < **WeatherRelatedRoadConditionTypeEnum** (by restriction)
Sub-types:	• _WeatherRelatedRoadConditionTypeEnum (by extension)

Name WeatherRelatedRoadConditionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'blackIce'|'deepSnow'|'dry'|'freezingOfWetRoads'|'freezingPavements'|'freezingRain'|'freshSnow'|'glaze'|'ice'|'iceBuildUp'|'iceWithWheelBarTracks'|'icy

Documentation Types of road surface conditions which are related to the weather.

Schema Component Representation

```
<xs:simpleType name="WeatherRelatedRoadConditionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="blackIce"/>
    <xs:enumeration value="deepSnow"/>
    <xs:enumeration value="dry"/>
    <xs:enumeration value="freezingOfWetRoads"/>
    <xs:enumeration value="freezingPavements"/>
    <xs:enumeration value="freezingRain"/>
    <xs:enumeration value="freshSnow"/>
    <xs:enumeration value="glaze"/>
```

```
      <xs:enumeration value="ice"/>
      <xs:enumeration value="iceBuildUp"/>
      <xs:enumeration value="iceWithWheelBarTracks"/>
      <xs:enumeration value="icyPatches"/>
      <xs:enumeration value="looseSnow"/>
      <xs:enumeration value="moist"/>
      <xs:enumeration value="normalWinterConditionsForPedestrians"/>
      <xs:enumeration value="notDry"/>
      <xs:enumeration value="packedSnow"/>
      <xs:enumeration value="rime"/>
      <xs:enumeration value="roadSurfaceMelting"/>
      <xs:enumeration value="slippery"/>
      <xs:enumeration value="slushOnRoad"/>
      <xs:enumeration value="slushStrings"/>
      <xs:enumeration value="snow"/>
      <xs:enumeration value="snowDrifts"/>
      <xs:enumeration value="snowOnPavement"/>
      <xs:enumeration value="wetAndIcyRoad"/>
      <xs:enumeration value="snowOnTheRoad"/>
      <xs:enumeration value="wetIcyPavement"/>
      <xs:enumeration value="streamingWater"/>
      <xs:enumeration value="surfaceWater"/>
      <xs:enumeration value="wet"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
    </xs:restriction>
</xs:simpleType>
```

top

Simple Type: WeightTypeEnum

Super-types:	xs:string < **WeightTypeEnum** (by restriction)
Sub-types:	• _WeightTypeEnum (by extension)

Name WeightTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'actual'|'maximumPermitted'|'_extended'}

Documentation Type of weight - describing the meaning of a vehicle weight value

Schema Component Representation

```
<xs:simpleType name="WeightTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="actual"/>
    <xs:enumeration value="maximumPermitted"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: Year

Super-types:	xs:nonNegativeInteger < NonNegativeInteger (by restriction) < **Year** (by restriction)
Sub-types:	None

Name Year

Content

- Base XSD Type: nonNegativeInteger

Documentation A year.

Schema Component Representation

```
<xs:simpleType name="Year">
  <xs:restriction base="com:NonNegativeInteger"/>
</xs:simpleType>
```

top

Simple Type: _EmissionClassificationEuroEnumExtensionType

Super-types:	xs:string < **_EmissionClassificationEuroEnumExtensionType** (by restriction)
Sub-types:	None

Name _EmissionClassificationEuroEnumExtensionType

Content

- Base XSD Type: string
- *value* comes from list: {'euroUnknown'|'euroI'|'euroII'|'euroIII'}

Schema Component Representation

```
<xs:simpleType name="_EmissionClassificationEuroEnumExtensionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="euroUnknown"/>
    <xs:enumeration value="euroI"/>
    <xs:enumeration value="euroII"/>
    <xs:enumeration value="euroIII"/>
  </xs:restriction>
```

```
</xs:simpleType>
```

top

Simple Type: _LoadTypeEnumExtensionType

Super-types:	xs:string < **_LoadTypeEnumExtensionType** (by restriction)
Sub-types:	None

Name _LoadTypeEnumExtensionType

Content

- Base XSD Type: string
- *value* comes from list: {'dangerousGoods'|'passenger'}

Schema Component Representation

```
<xs:simpleType name="_LoadTypeEnumExtensionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="dangerousGoods"/>
    <xs:enumeration value="passenger"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: _VehicleEquipmentEnumExtensionType

Super-types:	xs:string < **_VehicleEquipmentEnumExtensionType** (by restriction)
Sub-types:	None

Name _VehicleEquipmentEnumExtensionType

Content

- Base XSD Type: string
- *value* comes from list: {'dippedHeadlightsInUse'|'speedLimiterInUse'|'electronicTollEquipment'}

Schema Component Representation

```
<xs:simpleType name="_VehicleEquipmentEnumExtensionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="dippedHeadlightsInUse"/>
    <xs:enumeration value="speedLimiterInUse"/>
    <xs:enumeration value="electronicTollEquipment"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: _VehicleTypeEnumExtensionType

Super-types:	xs:string < **_VehicleTypeEnumExtensionType** (by restriction)
Sub-types:	None

Name _VehicleTypeEnumExtensionType

Content

- Base XSD Type: string
- *value* comes from list: {'animalDrawnVehicles'|'electricVehicles'|'passengerCarWithTrailer'|'motorizedVehicles'|'goodsVehicles'|'nonMotorizedVehicles'|'handcarts'|'soloMotorcycle'|'n

Schema Component Representation

```
<xs:simpleType name="_VehicleTypeEnumExtensionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="animalDrawnVehicles"/>
    <xs:enumeration value="electricVehicles"/>
    <xs:enumeration value="passengerCarWithTrailer"/>
    <xs:enumeration value="motorizedVehicles"/>
    <xs:enumeration value="goodsVehicles"/>
    <xs:enumeration value="nonMotorizedVehicles"/>
    <xs:enumeration value="handcarts"/>
    <xs:enumeration value="soloMotorcycle"/>
    <xs:enumeration value="motorizedVehiclesWithoutNumberPlate"/>
    <xs:enumeration value="motorQuadricycles"/>
    <xs:enumeration value="motorisedPersonalTransportDevices"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: _VehicleUsageEnumExtensionType

Super-types:	xs:string < **_VehicleUsageEnumExtensionType** (by restriction)
Sub-types:	None

Name _VehicleUsageEnumExtensionType

Content

- Base XSD Type: string

- *value* comes from list: {'removals'|'circus'|'funFair'}

Schema Component Representation

```
<xs:simpleType name="_VehicleUsageEnumExtensionType">
   <xs:restriction base="xs:string">
      <xs:enumeration value="removals"/>
      <xs:enumeration value="circus"/>
      <xs:enumeration value="funFair"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: _WeightTypeEnumExtensionType

Super-types:	xs:string < **_WeightTypeEnumExtensionType** (by restriction)
Sub-types:	None

Name _WeightTypeEnumExtensionType

Content

- Base XSD Type: string
- *value* comes from list: {'combinedMaximumPermitted'}

Schema Component Representation

```
<xs:simpleType name="_WeightTypeEnumExtensionType">
   <xs:restriction base="xs:string">
      <xs:enumeration value="combinedMaximumPermitted"/>
   </xs:restriction>
</xs:simpleType>
```

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DATEXII_3_D2Payload

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/d2Payload**
Version	3.3
Element and Attribute Namespaces	• Global element and attribute declarations belong to this schema's target namespace. • By default, local element declarations belong to this schema's target namespace. • By default, local attribute declarations have no namespace.

Schema Composition	• This schema imports schema(s) from the following namespace(s):
	  ◦ *http://datex2.eu/schema/3/locationExtension* (at DATEXII_3_LocationExtension.xsd)
	  ◦ *http://datex2.eu/schema/3/commonExtension* (at DATEXII_3_CommonExtension.xsd)
	  ◦ *http://datex2.eu/schema/3/parking* (at DATEXII_3_Parking.xsd)
	  ◦ *http://datex2.eu/schema/3/trafficRegulation* (at DATEXII_3_TrafficRegulation.xsd)
	  ◦ *http://datex2.eu/schema/3/facilities* (at DATEXII_3_Facilities.xsd)
	  ◦ *http://datex2.eu/schema/3/locationReferencing* (at DATEXII_3_LocationReferencing.xsd)
	  ◦ *http://datex2.eu/schema/3/common* (at DATEXII_3_Common.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
locx	http://datex2.eu/schema/3/locationExtension
comx	http://datex2.eu/schema/3/commonExtension
prk	http://datex2.eu/schema/3/parking
tro	http://datex2.eu/schema/3/trafficRegulation
fac	http://datex2.eu/schema/3/facilities
loc	http://datex2.eu/schema/3/locationReferencing
com	http://datex2.eu/schema/3/common
d2	**http://datex2.eu/schema/3/d2Payload**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified"
version="3.3" targetNamespace="http://datex2.eu/schema/3/d2Payload">
   <xs:import namespace="http://datex2.eu/schema/3/locationExtension"
   schemaLocation="DATEXII_3_LocationExtension.xsd"/>
```

```
   <xs:import namespace="http://datex2.eu/schema/3/commonExtension"
   schemaLocation="DATEXII_3_CommonExtension.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/parking"
   schemaLocation="DATEXII_3_Parking.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/trafficRegulation"
   schemaLocation="DATEXII_3_TrafficRegulation.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/facilities"
   schemaLocation="DATEXII_3_Facilities.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/locationReferencing"
   schemaLocation="DATEXII_3_LocationReferencing.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/common"
   schemaLocation="DATEXII_3_Common.xsd"/>
   ...
</xs:schema>
```

top

Global Declarations

Element: payload

Name	payload
Type	com:PayloadPublication
Nillable	no
Abstract	no

XML Instance Representation

```
<d2:payload> com:PayloadPublication
   <!--
   Uniqueness Constraint - _payloadTrafficRegulationOrderConstraint
   Selector - .//tro:trafficRegulationOrder
   Field(s) - @id, @version
   -->
   <!--
   Uniqueness Constraint - _payloadTrafficRegulationPublicationConstraint
   Selector - .//tro:trafficRegulationPublication
   Field(s) - @id
   -->
</d2:payload>
```

Schema Component Representation

```
<xs:element name="payload" type="com:PayloadPublication">
   <xs:unique name="_payloadTrafficRegulationOrderConstraint">
      <xs:selector xpath=".//tro:trafficRegulationOrder"/>
      <xs:field xpath="@id"/>
      <xs:field xpath="@version"/>
   </xs:unique>
   <xs:unique name="_payloadTrafficRegulationPublicationConstraint">
      <xs:selector xpath=".//tro:trafficRegulationPublication"/>
      <xs:field xpath="@id"/>
   </xs:unique>
</xs:element>
```

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DATEXII_3_Facilities

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/facilities**
Version	3.3
Element and Attribute Namespaces	• Global element and attribute declarations belong to this schema's target namespace. • By default, local element declarations belong to this schema's target namespace. • By default, local attribute declarations have no namespace.

Schema Composition	• This schema imports schema(s) from the following namespace(s):
	  ◦ *http://datex2.eu/schema/3/locationReferencing* (at DATEXII_3_LocationReferencing.xsd)
	  ◦ *http://datex2.eu/schema/3/common* (at DATEXII_3_Common.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
loc	http://datex2.eu/schema/3/locationReferencing
com	http://datex2.eu/schema/3/common
fac	**http://datex2.eu/schema/3/facilities**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified"
version="3.3" targetNamespace="http://datex2.eu/schema/3/facilities">
   <xs:import namespace="http://datex2.eu/schema/3/locationReferencing"
   schemaLocation="DATEXII_3_LocationReferencing.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/common"
   schemaLocation="DATEXII_3_Common.xsd"/>
   ...
</xs:schema>
```

top

Global Definitions

Simple Type: TimeZone

Super-types:	com:String < **TimeZone** (by restriction)
Sub-types:	None

Name	TimeZone
Content	• **'String' super type was not found in this schema. Its facets could not be printed out.** • *pattern* = [-+][0-9][0-9]:[0-9][0-9]|Z
Documentation	Identifies a time zone by specifying the difference to UTC in hours and minutes, as defined in ISO 8601.

Schema Component Representation

```
<xs:simpleType name="TimeZone">
   <xs:restriction base="com:String">
      <xs:pattern value="[-+][0-9][0-9]:[0-9][0-9]|Z"/>
   </xs:restriction>
</xs:simpleType>
```

top

DATEXII_3_LocationExtension

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/locationExtension**
Version	3.3
Element and Attribute Namespaces	• Global element and attribute declarations belong to this schema's target namespace. • By default, local element declarations belong to this schema's target namespace. • By default, local attribute declarations have no namespace.

Schema Composition	• This schema imports schema(s) from the following namespace(s):
	  ◦ *http://datex2.eu/schema/3/common* (at DATEXII_3_Common.xsd)
	  ◦ *http://datex2.eu/schema/3/facilities* (at DATEXII_3_Facilities.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
com	http://datex2.eu/schema/3/common
fac	http://datex2.eu/schema/3/facilities
locx	**http://datex2.eu/schema/3/locationExtension**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified" version="3.3"
targetNamespace="http://datex2.eu/schema/3/locationExtension">
   <xs:import namespace="http://datex2.eu/schema/3/common" schemaLocation="DATEXII_3_Common.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/facilities"
   schemaLocation="DATEXII_3_Facilities.xsd"/>
   ...
</xs:schema>
```

top

Global Definitions

Complex Type: Address

Super-types:	None
Sub-types:	None

Name	Address
Abstract	no
Documentation	A street oriented addressing structure supporting delivery

XML Instance Representation

```
<...>
   <locx:postcode> com:String </locx:postcode> [0..1] ?
   <locx:city> com:MultilingualString </locx:city> [0..1] ?
   <locx:countryCode> com:CountryCode </locx:countryCode> [0..1] ?
   <locx:addressLine> locx:AddressLine </locx:addressLine> [0..*]
   <locx:_addressExtension> com:_ExtensionType </locx:_addressExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Address">
  <xs:sequence>
    <xs:element name="postcode" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="city" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="countryCode" type="com:CountryCode" minOccurs="0" maxOccurs="1"/>
    <xs:element name="addressLine" type="locx:AddressLine" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_addressExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: AddressLine

Super-types:	None
Sub-types:	None

Name	AddressLine
Abstract	no
Documentation	A class defining information concerning one line of a postal address.

XML Instance Representation

```
<...
 order="com:NonNegativeInteger [1] ?">
   <locx:type> locx:_AddressLineTypeEnum </locx:type> [1] ?
   <locx:text> com:MultilingualString </locx:text> [1] ?
   <locx:_addressLineExtension> com:_ExtensionType </locx:_addressLineExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AddressLine">
  <xs:sequence>
    <xs:element name="type" type="locx:_AddressLineTypeEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="text" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_addressLineExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="order" type="com:NonNegativeInteger" use="required"/>
</xs:complexType>
```

top

Complex Type: FacilityLocation

Super-types:	None
Sub-types:	None

Name	FacilityLocation
Abstract	no
Documentation	A location for which a time zone and an address can be specified

XML Instance Representation

```
<...>
   <locx:timeZone> fac:TimeZone </locx:timeZone> [0..1] ?
   <locx:address> locx:Address </locx:address> [0..1] ?
</...>
```

Schema Component Representation

```
<xs:complexType name="FacilityLocation">
  <xs:sequence>
    <xs:element name="timeZone" type="fac:TimeZone" minOccurs="0" maxOccurs="1"/>
    <xs:element name="address" type="locx:Address" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: NamedAreaExtended

Super-types:	None
Sub-types:	None

Name	NamedAreaExtended
Abstract	no

Documentation A named area with an additional code (that is not an ISO subdivision code)

XML Instance Representation

```
<...>
   <locx:namedAreaCode> locx:NamedAreaCode </locx:namedAreaCode> [1] ?
</...>
```

Schema Component Representation

```
<xs:complexType name="NamedAreaExtended">
   <xs:sequence>
      <xs:element name="namedAreaCode" type="locx:NamedAreaCode" minOccurs="1" maxOccurs="1"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: SupplementaryPositionalDescriptionExtended

Super-types:	None
Sub-types:	None

Name SupplementaryPositionalDescriptionExtended

Abstract no

Documentation Extension of class SupplementaryPositionalDescription.

XML Instance Representation

```
<...>
   <locx:houseNumberSide> locx:_HouseNumberSideEnum </locx:houseNumberSide> [0..1] ?
</...>
```

Schema Component Representation

```
<xs:complexType name="SupplementaryPositionalDescriptionExtended">
   <xs:sequence>
      <xs:element name="houseNumberSide" type="locx:_HouseNumberSideEnum" minOccurs="0" maxOccurs="1"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: _AddressLineTypeEnum

Super-types:	xs:string < AddressLineTypeEnum (by restriction) < **_AddressLineTypeEnum** (by extension)
Sub-types:	None

Name _AddressLineTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   locx:AddressLineTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_AddressLineTypeEnum">
   <xs:simpleContent>
      <xs:extension base="locx:AddressLineTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _HouseNumberSideEnum

Super-types:	xs:string < HouseNumberSideEnum (by restriction) < **_HouseNumberSideEnum** (by extension)
Sub-types:	None

Name _HouseNumberSideEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   locx:HouseNumberSideEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_HouseNumberSideEnum">
   <xs:simpleContent>
      <xs:extension base="locx:HouseNumberSideEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Simple Type: AddressLineTypeEnum

Super-types: xs:string < **AddressLineTypeEnum** (by restriction)

Sub-types:
- _AddressLineTypeEnum (by extension)

Name AddressLineTypeEnum

Content
- Base XSD Type: string
- *value* comes from list: {'apartment'|'building'|'poBox'|'unit'|'region'|'town'|'districtTerritory'|'floor'|'street'|'houseNumber'|'generalTextLine'|'_extended'}

Documentation A list of supported address line types.

Schema Component Representation

```
<xs:simpleType name="AddressLineTypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="apartment"/>
      <xs:enumeration value="building"/>
      <xs:enumeration value="poBox"/>
      <xs:enumeration value="unit"/>
      <xs:enumeration value="region"/>
      <xs:enumeration value="town"/>
      <xs:enumeration value="districtTerritory"/>
      <xs:enumeration value="floor"/>
      <xs:enumeration value="street"/>
      <xs:enumeration value="houseNumber"/>
      <xs:enumeration value="generalTextLine"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: HouseNumberSideEnum

Super-types: xs:string < **HouseNumberSideEnum** (by restriction)

Sub-types:
- _HouseNumberSideEnum (by extension)

Name HouseNumberSideEnum

Content
- Base XSD Type: string
- *value* comes from list: {'odd'|'even'|'_extended'}

Documentation Specifies the side of the house number (even, odd).

Schema Component Representation

```
<xs:simpleType name="HouseNumberSideEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="odd"/>
      <xs:enumeration value="even"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: NamedAreaCode

Super-types: com:String < **NamedAreaCode** (by restriction)

Sub-types: None

Name NamedAreaCode

Content

- **'String' super type was not found in this schema. Its facets could not be printed out.**
- *length* <= 8

Documentation Type for a short numeric or alphanumeric code identifying an area.

Schema Component Representation

```
<xs:simpleType name="NamedAreaCode">
  <xs:restriction base="com:String">
    <xs:maxLength value="8"/>
  </xs:restriction>
</xs:simpleType>
```

top

DATEXII_3_LocationReferencing

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- Complex Type: **TpegPoint**
- Complex Type: **TpegPointDescriptor**
- Complex Type: **TpegPointLocation**
- Complex Type: **TpegSimplePoint**
- Complex Type: **_AlertCDirectionEnum**
- Complex Type: **_AltitudeAccuracyEnum**
- Complex Type: **_AreaPlacesEnum**
- Complex Type: **_CarriagewayEnum**
- Complex Type: **_DirectionEnum**
- Complex Type: **_DirectionPurposeEnum**
- Complex Type: **_GeographicCharacteristicEnum**
- Complex Type: **_HeightGradeEnum**
- Complex Type: **_HeightTypeEnum**
- Complex Type: **_InfrastructureDescriptorEnum**
- Complex Type: **_IntermediatePointOnLinearElement**
- Complex Type: **_LaneEnum**
- Complex Type: **_LinearDirectionEnum**
- Complex Type: **_LinearElementNatureEnum**
- Complex Type: **_LocationContainedInItinerary**
- Complex Type: **_LocationReferenceExtensionType**
- Complex Type: **_NamedAreaExtensionType**
- Complex Type: **_NamedAreaTypeEnum**
- Complex Type: **_NutsCodeTypeEnum**
- Complex Type: **_OpenlrFormOfWayEnum**
- Complex Type: **_OpenlrFunctionalRoadClassEnum**
- Complex Type: **_OpenlrOrientationEnum**
- Complex Type: **_OpenlrSideOfRoadEnum**
- Complex Type: **_PositionConfidenceCodedErrorEnum**
- Complex Type: **_PredefinedItineraryVersionedReference**
- Complex Type: **_PredefinedLocationGroupVersionedReference**
- Complex Type: **_PredefinedLocationVersionedReference**
- Complex Type: **_ReferentTypeEnum**
- Complex Type: **_RelativePositionOnCarriagewayEnum**
- Complex Type: **_SubdivisionTypeEnum**
- Complex Type: **_SupplementaryPositionalDescriptionExtensionType**
- Complex Type: **_TpegLoc01AreaLocationSubtypeEnum**
- Complex Type: **_TpegLoc01FramedPointLocationSubtypeEnum**
- Complex Type: **_TpegLoc01LinearLocationSubtypeEnum**
- Complex Type: **_TpegLoc01SimplePointLocationSubtypeEnum**
- Complex Type: **_TpegLoc03AreaDescriptorSubtypeEnum**
- Complex Type: **_TpegLoc03IlcPointDescriptorSubtypeEnum**
- Complex Type: **_TpegLoc03JunctionPointDescriptorSubtypeEnum**
- Complex Type: **_TpegLoc03OtherPointDescriptorSubtypeEnum**
- Complex Type: **_TpegLoc04HeightTypeEnum**
- Simple Type: **AlertCDirectionEnum**
- Simple Type: **AlertCLocationCode**
- Simple Type: **AltitudeAccuracyEnum**
- Simple Type: **AreaPlacesEnum**
- Simple Type: **CarriagewayEnum**
- Simple Type: **DirectionEnum**
- Simple Type: **DirectionPurposeEnum**
- Simple Type: **GeographicCharacteristicEnum**
- Simple Type: **GmlPosList**
- Simple Type: **HeightGradeEnum**
- Simple Type: **HeightTypeEnum**
- Simple Type: **InfrastructureDescriptorEnum**
- Simple Type: **LaneEnum**
- Simple Type: **LinearDirectionEnum**
- Simple Type: **LinearElementNatureEnum**
- Simple Type: **NamedAreaTypeEnum**
- Simple Type: **NutsCode**
- Simple Type: **NutsCodeTypeEnum**
- Simple Type: **OpenlrFormOfWayEnum**
- Simple Type: **OpenlrFunctionalRoadClassEnum**
- Simple Type: **OpenlrOrientationEnum**
- Simple Type: **OpenlrSideOfRoadEnum**
- Simple Type: **PositionConfidenceCodedErrorEnum**
- Simple Type: **ReferentTypeEnum**
- Simple Type: **RelativePositionOnCarriagewayEnum**
- Simple Type: **SubdivisionCode**
- Simple Type: **SubdivisionTypeEnum**
- Simple Type: **TpegLoc01AreaLocationSubtypeEnum**
- Simple Type: **TpegLoc01FramedPointLocationSubtypeEnum**
- Simple Type: **TpegLoc01LinearLocationSubtypeEnum**
- Simple Type: **TpegLoc01SimplePointLocationSubtypeEnum**
- Simple Type: **TpegLoc03AreaDescriptorSubtypeEnum**
- Simple Type: **TpegLoc03IlcPointDescriptorSubtypeEnum**
- Simple Type: **TpegLoc03JunctionPointDescriptorSubtypeEnum**
- Simple Type: **TpegLoc03OtherPointDescriptorSubtypeEnum**
- Simple Type: **TpegLoc04HeightTypeEnum**

top

Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/locationReferencing**
Version	3.3
Element and Attribute Namespaces	• Global element and attribute declarations belong to this schema's target namespace. • By default, local element declarations belong to this schema's target namespace. • By default, local attribute declarations have no namespace.

Schema Composition	• This schema imports schema(s) from the following namespace(s):
	  ◦ *http://datex2.eu/schema/3/common* (at DATEXII_3_Common.xsd)
	  ◦ *http://datex2.eu/schema/3/locationExtension* (at DATEXII_3_LocationExtension.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace

xs	http://www.w3.org/2001/XMLSchema
com	http://datex2.eu/schema/3/common
locx	http://datex2.eu/schema/3/locationExtension
loc	**http://datex2.eu/schema/3/locationReferencing**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified" version="3.3"
targetNamespace="http://datex2.eu/schema/3/locationReferencing">
   <xs:import namespace="http://datex2.eu/schema/3/common" schemaLocation="DATEXII_3_Common.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/locationExtension"
   schemaLocation="DATEXII_3_LocationExtension.xsd"/>
   ...
</xs:schema>
```

top

Global Definitions

Complex Type: AlertCArea

Super-types:	None
Sub-types:	None

Name	AlertCArea
Abstract	no
Documentation	An area defined by reference to a predefined ALERT-C location table.

XML Instance Representation

```
<...>
   <loc:alertCLocationCountryCode> com:String </loc:alertCLocationCountryCode> [1] ?
   <loc:alertCLocationTableNumber> com:String </loc:alertCLocationTableNumber> [1] ?
   <loc:alertCLocationTableVersion> com:String </loc:alertCLocationTableVersion> [1] ?
   <loc:areaLocation> loc:AlertCLocation </loc:areaLocation> [1] ?
   <loc:_alertCAreaExtension> com:_ExtensionType </loc:_alertCAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCArea">
   <xs:sequence>
      <xs:element name="alertCLocationCountryCode" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="alertCLocationTableNumber" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="alertCLocationTableVersion" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="areaLocation" type="loc:AlertCLocation"/>
      <xs:element name="_alertCAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AlertCDirection

Super-types:	None
Sub-types:	None

Name	AlertCDirection
Abstract	no
Documentation	The direction of traffic flow along the road to which the information relates.

XML Instance Representation

```
<...>
   <loc:alertCDirectionCoded> loc:_AlertCDirectionEnum </loc:alertCDirectionCoded> [1] ?
   <loc:alertCDirectionNamed> com:MultilingualString </loc:alertCDirectionNamed> [0..1] ?
   <loc:alertCAffectedDirection> loc:_LinearDirectionEnum </loc:alertCAffectedDirection> [1] ?
   <loc:_alertCDirectionExtension> com:_ExtensionType </loc:_alertCDirectionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCDirection">
   <xs:sequence>
      <xs:element name="alertCDirectionCoded" type="loc:_AlertCDirectionEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="alertCDirectionNamed" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="alertCAffectedDirection" type="loc:_LinearDirectionEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_alertCDirectionExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AlertCLinear

Super-types:	None
Sub-types:	• AlertCLinearByCode (by extension) • AlertCMethod2Linear (by extension) • AlertCMethod4Linear (by extension)

Name	AlertCLinear
Abstract	yes
Documentation	A linear section along a road defined between two points on the road by reference to a pre-defined ALERT-C location table.

XML Instance Representation

```
<...>
   <loc:alertCLocationCountryCode> com:String </loc:alertCLocationCountryCode> [1] ?
   <loc:alertCLocationTableNumber> com:String </loc:alertCLocationTableNumber> [1] ?
   <loc:alertCLocationTableVersion> com:String </loc:alertCLocationTableVersion> [1] ?
   <loc:_alertCLinearExtension> com:_ExtensionType </loc:_alertCLinearExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCLinear" abstract="true">
   <xs:sequence>
      <xs:element name="alertCLocationCountryCode" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="alertCLocationTableNumber" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="alertCLocationTableVersion" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_alertCLinearExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AlertCLinearByCode

Super-types:	AlertCLinear < **AlertCLinearByCode** (by extension)
Sub-types:	None

Name	AlertCLinearByCode
Abstract	no
Documentation	A linear section along a road defined by reference to a linear section in a pre-defined ALERT-C location table.

XML Instance Representation

```
<...>
   <loc:alertCLocationCountryCode> com:String </loc:alertCLocationCountryCode> [1] ?
   <loc:alertCLocationTableNumber> com:String </loc:alertCLocationTableNumber> [1] ?
   <loc:alertCLocationTableVersion> com:String </loc:alertCLocationTableVersion> [1] ?
   <loc:_alertCLinearExtension> com:_ExtensionType </loc:_alertCLinearExtension> [0..1]
   <loc:alertCDirection> loc:AlertCDirection </loc:alertCDirection> [1]
   <loc:locationCodeForLinearLocation> loc:AlertCLocation </loc:locationCodeForLinearLocation> [1] ?
   <loc:_alertCLinearByCodeExtension> com:_ExtensionType </loc:_alertCLinearByCodeExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCLinearByCode">
   <xs:complexContent>
      <xs:extension base="loc:AlertCLinear">
         <xs:sequence>
            <xs:element name="alertCDirection" type="loc:AlertCDirection"/>
            <xs:element name="locationCodeForLinearLocation" type="loc:AlertCLocation"/>
            <xs:element name="_alertCLinearByCodeExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: AlertCLocation

Super-types:	None
Sub-types:	None

Name	AlertCLocation
Abstract	no
Documentation	Identification of a specific point, linear or area location in an ALERT-C location table.

XML Instance Representation

```
<...>
   <loc:alertCLocationName> com:MultilingualString </loc:alertCLocationName> [0..1] ?
   <loc:specificLocation> loc:AlertCLocationCode </loc:specificLocation> [1] ?
   <loc:_alertCLocationExtension> com:_ExtensionType </loc:_alertCLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCLocation">
   <xs:sequence>
      <xs:element name="alertCLocationName" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="specificLocation" type="loc:AlertCLocationCode" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_alertCLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AlertCMethod2Linear

Super-types:	AlertCLinear < **AlertCMethod2Linear** (by extension)
Sub-types:	None

Name	AlertCMethod2Linear
Abstract	no
Documentation	A linear section along a road between two points, primary and secondary, which are pre-defined in an ALERT-C location table. Direction is FROM the secondary point TO the primary point, i.e. the primary point is downstream of the secondary point.

XML Instance Representation

```
<...>
   <loc:alertCLocationCountryCode> com:String </loc:alertCLocationCountryCode> [1] ?
   <loc:alertCLocationTableNumber> com:String </loc:alertCLocationTableNumber> [1] ?
   <loc:alertCLocationTableVersion> com:String </loc:alertCLocationTableVersion> [1] ?
   <loc:_alertCLinearExtension> com:_ExtensionType </loc:_alertCLinearExtension> [0..1]
   <loc:alertCDirection> loc:AlertCDirection </loc:alertCDirection> [1]
   <loc:alertCMethod2PrimaryPointLocation> loc:AlertCMethod2PrimaryPointLocation
   </loc:alertCMethod2PrimaryPointLocation> [1]
   <loc:alertCMethod2SecondaryPointLocation> loc:AlertCMethod2SecondaryPointLocation
   </loc:alertCMethod2SecondaryPointLocation> [1]
   <loc:_alertCMethod2LinearExtension> com:_ExtensionType </loc:_alertCMethod2LinearExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod2Linear">
   <xs:complexContent>
      <xs:extension base="loc:AlertCLinear">
         <xs:sequence>
            <xs:element name="alertCDirection" type="loc:AlertCDirection"/>
            <xs:element name="alertCMethod2PrimaryPointLocation" type="loc:AlertCMethod2PrimaryPointLocation"/>
            <xs:element name="alertCMethod2SecondaryPointLocation" type="loc:AlertCMethod2SecondaryPointLocation"/>
            <xs:element name="_alertCMethod2LinearExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: AlertCMethod2Point

Super-types:	AlertCPoint < **AlertCMethod2Point** (by extension)
Sub-types:	None

Name	AlertCMethod2Point
Abstract	no
Documentation	A single point on the road network defined by reference to a point in a pre-defined ALERT-C location table and which has an associated direction of traffic flow.

XML Instance Representation

```
<...>
   <loc:alertCLocationCountryCode> com:String </loc:alertCLocationCountryCode> [1] ?
   <loc:alertCLocationTableNumber> com:String </loc:alertCLocationTableNumber> [1] ?
   <loc:alertCLocationTableVersion> com:String </loc:alertCLocationTableVersion> [1] ?
   <loc:_alertCPointExtension> com:_ExtensionType </loc:_alertCPointExtension> [0..1]
   <loc:alertCDirection> loc:AlertCDirection </loc:alertCDirection> [1]
   <loc:alertCMethod2PrimaryPointLocation> loc:AlertCMethod2PrimaryPointLocation
   </loc:alertCMethod2PrimaryPointLocation> [1]
   <loc:_alertCMethod2PointExtension> com:_ExtensionType </loc:_alertCMethod2PointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod2Point">
   <xs:complexContent>
      <xs:extension base="loc:AlertCPoint">
         <xs:sequence>
            <xs:element name="alertCDirection" type="loc:AlertCDirection"/>
            <xs:element name="alertCMethod2PrimaryPointLocation" type="loc:AlertCMethod2PrimaryPointLocation"/>
            <xs:element name="_alertCMethod2PointExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: AlertCMethod2PrimaryPointLocation

Super-types:	None
Sub-types:	None

Name	AlertCMethod2PrimaryPointLocation
Abstract	no
Documentation	The point (called Primary point) which is either a single point or at the downstream end of a linear road section. The point is specified by a reference to a point in a pre-defined ALERT-C location table.

XML Instance Representation

```
<...>
   <loc:alertCLocation> loc:AlertCLocation </loc:alertCLocation> [1]
   <loc:_alertCMethod2PrimaryPointLocationExtension> com:_ExtensionType
   </loc:_alertCMethod2PrimaryPointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod2PrimaryPointLocation">
   <xs:sequence>
      <xs:element name="alertCLocation" type="loc:AlertCLocation"/>
      <xs:element name="_alertCMethod2PrimaryPointLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AlertCMethod2SecondaryPointLocation

Super-types:	None
Sub-types:	None

Name	AlertCMethod2SecondaryPointLocation
Abstract	no
Documentation	The point (called Secondary point) which is at the upstream end of a linear road section. The point is specified by a reference to a point in a pre-defined ALERT-C location table.

XML Instance Representation

```
<...>
   <loc:alertCLocation> loc:AlertCLocation </loc:alertCLocation> [1]
   <loc:_alertCMethod2SecondaryPointLocationExtension> com:_ExtensionType
   </loc:_alertCMethod2SecondaryPointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod2SecondaryPointLocation">
   <xs:sequence>
      <xs:element name="alertCLocation" type="loc:AlertCLocation"/>
      <xs:element name="_alertCMethod2SecondaryPointLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AlertCMethod4Linear

Super-types:	AlertCLinear < **AlertCMethod4Linear** (by extension)
Sub-types:	None

Name	AlertCMethod4Linear
Abstract	no
Documentation	A linear section along a road between two points, primary and secondary, which are pre-defined ALERT-C locations plus offset distance. Direction is FROM the secondary point TO the primary point, i.e. the primary point is downstream of the secondary point.

XML Instance Representation

```
<...>
   <loc:alertCLocationCountryCode> com:String </loc:alertCLocationCountryCode> [1] ?
   <loc:alertCLocationTableNumber> com:String </loc:alertCLocationTableNumber> [1] ?
   <loc:alertCLocationTableVersion> com:String </loc:alertCLocationTableVersion> [1] ?
   <loc:_alertCLinearExtension> com:_ExtensionType </loc:_alertCLinearExtension> [0..1]
   <loc:alertCMethod4PrimaryPointLocation> loc:AlertCMethod4PrimaryPointLocation
   </loc:alertCMethod4PrimaryPointLocation> [1]
   <loc:alertCMethod4SecondaryPointLocation> loc:AlertCMethod4SecondaryPointLocation
   </loc:alertCMethod4SecondaryPointLocation> [1]
   <loc:_alertCMethod4LinearExtension> com:_ExtensionType </loc:_alertCMethod4LinearExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod4Linear">
   <xs:complexContent>
      <xs:extension base="loc:AlertCLinear">
         <xs:sequence>
            <xs:element name="alertCMethod4PrimaryPointLocation" type="loc:AlertCMethod4PrimaryPointLocation"/>
            <xs:element name="alertCMethod4SecondaryPointLocation" type="loc:AlertCMethod4SecondaryPointLocation"/>
            <xs:element name="_alertCMethod4LinearExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: AlertCMethod4Point

Super-types:	AlertCPoint < **AlertCMethod4Point** (by extension)
Sub-types:	None

Name	AlertCMethod4Point
Abstract	no
Documentation	A single point on the road network defined by reference to a point in a pre-defined ALERT-C location table plus an offset distance and which has an associated direction of traffic flow.

XML Instance Representation

```
<...>
   <loc:alertCLocationCountryCode> com:String </loc:alertCLocationCountryCode> [1] ?
   <loc:alertCLocationTableNumber> com:String </loc:alertCLocationTableNumber> [1] ?
   <loc:alertCLocationTableVersion> com:String </loc:alertCLocationTableVersion> [1] ?
   <loc:_alertCPointExtension> com:_ExtensionType </loc:_alertCPointExtension> [0..1]
   <loc:alertCDirection> loc:AlertCDirection </loc:alertCDirection> [1]
   <loc:alertCMethod4PrimaryPointLocation> loc:AlertCMethod4PrimaryPointLocation
   </loc:alertCMethod4PrimaryPointLocation> [1]
   <loc:_alertCMethod4PointExtension> com:_ExtensionType </loc:_alertCMethod4PointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod4Point">
   <xs:complexContent>
      <xs:extension base="loc:AlertCPoint">
         <xs:sequence>
            <xs:element name="alertCDirection" type="loc:AlertCDirection"/>
            <xs:element name="alertCMethod4PrimaryPointLocation" type="loc:AlertCMethod4PrimaryPointLocation"/>
            <xs:element name="_alertCMethod4PointExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: AlertCMethod4PrimaryPointLocation

Super-types:	None
Sub-types:	None

Name	AlertCMethod4PrimaryPointLocation
Abstract	no
Documentation	The point (called Primary point) which is either a single point or at the downstream end of a linear road section. The point is specified by a reference to a point in a pre-defined ALERT-C location table plus a non-negative offset distance.

XML Instance Representation

```
<...>
   <loc:alertCLocation> loc:AlertCLocation </loc:alertCLocation> [1]
   <loc:offsetDistance> loc:OffsetDistance </loc:offsetDistance> [1]
   <loc:_alertCMethod4PrimaryPointLocationExtension> com:_ExtensionType
   </loc:_alertCMethod4PrimaryPointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod4PrimaryPointLocation">
   <xs:sequence>
      <xs:element name="alertCLocation" type="loc:AlertCLocation"/>
      <xs:element name="offsetDistance" type="loc:OffsetDistance"/>
      <xs:element name="_alertCMethod4PrimaryPointLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AlertCMethod4SecondaryPointLocation

Super-types:	None
Sub-types:	None

Name	AlertCMethod4SecondaryPointLocation
Abstract	no
Documentation	The point (called Secondary point) which is at the upstream end of a linear road section. The point is specified by a reference to a point in a pre-defined Alert-C location table plus a non-negative offset distance.

XML Instance Representation

```
<...>
   <loc:_alertCMethod4SecondaryPointLocationExtension> com:_ExtensionType
   </loc:_alertCMethod4SecondaryPointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod4SecondaryPointLocation">
   <xs:sequence>
      <xs:element name="_alertCMethod4SecondaryPointLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AlertCPoint

Super-types:	None
Sub-types:	• AlertCMethod2Point (by extension) • AlertCMethod4Point (by extension)

Name	AlertCPoint
Abstract	yes
Documentation	A single point on the road network defined by reference to a pre-defined ALERT-C location table and which has an associated direction of traffic flow.

XML Instance Representation

```
<...>
   <loc:alertCLocationCountryCode> com:String </loc:alertCLocationCountryCode> [1] ?
   <loc:alertCLocationTableNumber> com:String </loc:alertCLocationTableNumber> [1] ?
   <loc:alertCLocationTableVersion> com:String </loc:alertCLocationTableVersion> [1] ?
   <loc:_alertCPointExtension> com:_ExtensionType </loc:_alertCPointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCPoint" abstract="true">
   <xs:sequence>
      <xs:element name="alertCLocationCountryCode" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="alertCLocationTableNumber" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="alertCLocationTableVersion" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_alertCPointExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AltitudeConfidence

Super-types:	None
Sub-types:	None

Name	AltitudeConfidence
Abstract	no
Documentation	Evaluation of the altitude confidence assessed according to ETSI ISO 102894-2

XML Instance Representation

```
<...>
   <loc:altitudeAccuracyCodedValue> loc:_AltitudeAccuracyEnum </loc:altitudeAccuracyCodedValue> [0..1] ?
   <loc:altitudeAccuracyCodedError> loc:_PositionConfidenceCodedErrorEnum </loc:altitudeAccuracyCodedError> [0..1] ?
   <loc:_altitudeConfidenceExtension> com:_ExtensionType </loc:_altitudeConfidenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AltitudeConfidence">
   <xs:sequence>
      <xs:element name="altitudeAccuracyCodedValue" type="loc:_AltitudeAccuracyEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="altitudeAccuracyCodedError" type="loc:_PositionConfidenceCodedErrorEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="_altitudeConfidenceExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AreaDestination

Super-types:	Destination < **AreaDestination** (by extension)
Sub-types:	None

Name	AreaDestination
Abstract	no
Documentation	The specification of the destination of a defined route or itinerary which is an area.

XML Instance Representation

```
<...>
   <loc:_destinationExtension> com:_ExtensionType </loc:_destinationExtension> [0..1]
   <loc:areaLocation> loc:AreaLocation </loc:areaLocation> [1]
   <loc:_areaDestinationExtension> com:_ExtensionType </loc:_areaDestinationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AreaDestination">
   <xs:complexContent>
      <xs:extension base="loc:Destination">
         <xs:sequence>
            <xs:element name="areaLocation" type="loc:AreaLocation"/>
            <xs:element name="_areaDestinationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
```

```
</xs:complexType>
```

top

Complex Type: AreaLocation

Super-types:	LocationReference < Location (by extension) < **AreaLocation** (by extension)
Sub-types:	None

Name	AreaLocation
Abstract	no
Documentation	Location representing a geographic or geometric defined area which may be qualified by height information to provide additional geospatial discrimination (e.g. for snow in an area but only above a certain altitude).

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:externalReferencing> loc:ExternalReferencing </loc:externalReferencing> [0..*]
   <loc:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [0..1] ?
   <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
   <loc:areasAtWhichApplicable> loc:_AreaPlacesEnum </loc:areasAtWhichApplicable> [0..1] ?
   <loc:alertCArea> loc:AlertCArea </loc:alertCArea> [0..*]
   <loc:tpegAreaLocation> loc:TpegAreaLocation </loc:tpegAreaLocation> [0..1]
   <loc:namedArea> loc:NamedArea </loc:namedArea> [0..1]
   <loc:gmlMultiPolygon> loc:GmlMultiPolygon </loc:gmlMultiPolygon> [0..1]
   <loc:openlrAreaLocationReference> loc:OpenlrAreaLocationReference </loc:openlrAreaLocationReference> [0..1]
   <loc:_areaLocationExtension> com:_ExtensionType </loc:_areaLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AreaLocation">
   <xs:complexContent>
      <xs:extension base="loc:Location">
         <xs:sequence>
            <xs:element name="areasAtWhichApplicable" type="loc:_AreaPlacesEnum" minOccurs="0" maxOccurs="1"/>
            <xs:element name="alertCArea" type="loc:AlertCArea" minOccurs="0" maxOccurs="unbounded"/>
            <xs:element name="tpegAreaLocation" type="loc:TpegAreaLocation" minOccurs="0"/>
            <xs:element name="namedArea" type="loc:NamedArea" minOccurs="0"/>
            <xs:element name="gmlMultiPolygon" type="loc:GmlMultiPolygon" minOccurs="0"/>
            <xs:element name="openlrAreaLocationReference" type="loc:OpenlrAreaLocationReference" minOccurs="0"/>
            <xs:element name="_areaLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Carriageway

Super-types:	None
Sub-types:	None

Name	Carriageway
Abstract	no
Documentation	Supplementary positional information which details carriageway and lane locations. Several instances may exist where the element being described extends over more than one carriageway.

XML Instance Representation

```
<...>
   <loc:carriageway> loc:_CarriagewayEnum </loc:carriageway> [1] ?
   <loc:originalNumberOfLanes> com:Integer </loc:originalNumberOfLanes> [0..1] ?
   <loc:lane> loc:Lane </loc:lane> [0..*]
   <loc:_carriagewayExtension> com:_ExtensionType </loc:_carriagewayExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Carriageway">
   <xs:sequence>
      <xs:element name="carriageway" type="loc:_CarriagewayEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="originalNumberOfLanes" type="com:Integer" minOccurs="0" maxOccurs="1"/>
      <xs:element name="lane" type="loc:Lane" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="_carriagewayExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: Destination

Super-types:	None
Sub-types:	• AreaDestination (by extension) • PointDestination (by extension)

Name	Destination
Abstract	yes

Documentation	The specification of a destination. This may be either a point location or an area location.

XML Instance Representation

```
<...>
   <loc:_destinationExtension> com:_ExtensionType </loc:_destinationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Destination" abstract="true">
   <xs:sequence>
      <xs:element name="_destinationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: DistanceAlongLinearElement

Super-types:	None
Sub-types:	• DistanceFromLinearElementReferent (by extension) • DistanceFromLinearElementStart (by extension) • PercentageDistanceAlongLinearElement (by extension)

Name	DistanceAlongLinearElement
Abstract	yes
Documentation	Distance of a point along a linear element either measured from the start node or a defined referent on that linear element, where the start node is relative to the element definition rather than the direction of traffic flow.

XML Instance Representation

```
<...>
   <loc:_distanceAlongLinearElementExtension> com:_ExtensionType </loc:_distanceAlongLinearElementExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DistanceAlongLinearElement" abstract="true">
   <xs:sequence>
      <xs:element name="_distanceAlongLinearElementExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: DistanceFromLinearElementReferent

Super-types:	DistanceAlongLinearElement < **DistanceFromLinearElementReferent** (by extension)
Sub-types:	None

Name	DistanceFromLinearElementReferent
Abstract	no
Documentation	Distance of a point along a linear element measured from a "from referent" on the linear element, in the sense relative to the linear element definition rather than the direction of traffic flow or optionally towards a "towards referent".

XML Instance Representation

```
<...>
   <loc:_distanceAlongLinearElementExtension> com:_ExtensionType </loc:_distanceAlongLinearElementExtension> [0..1]
   <loc:distanceAlong> com:MetresAsFloat </loc:distanceAlong> [1] ?
   <loc:fromReferent> loc:Referent </loc:fromReferent> [1] ?
   <loc:towardsReferent> loc:Referent </loc:towardsReferent> [0..1] ?
   <loc:_distanceFromLinearElementReferentExtension> com:_ExtensionType
   </loc:_distanceFromLinearElementReferentExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DistanceFromLinearElementReferent">
   <xs:complexContent>
      <xs:extension base="loc:DistanceAlongLinearElement">
         <xs:sequence>
            <xs:element name="distanceAlong" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
            <xs:element name="fromReferent" type="loc:Referent"/>
            <xs:element name="towardsReferent" type="loc:Referent" minOccurs="0"/>
            <xs:element name="_distanceFromLinearElementReferentExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: DistanceFromLinearElementStart

Super-types:	DistanceAlongLinearElement < **DistanceFromLinearElementStart** (by extension)
Sub-types:	None

Name	DistanceFromLinearElementStart
Abstract	no
Documentation	Distance of a point along a linear element measured from the start node of the linear element, where start node is relative to the element definition rather than the direction of traffic flow.

XML Instance Representation

```
<...>
   <loc:_distanceAlongLinearElementExtension> com:_ExtensionType </loc:_distanceAlongLinearElementExtension> [0..1]
   <loc:distanceAlong> com:MetresAsFloat </loc:distanceAlong> [1] ?
   <loc:_distanceFromLinearElementStartExtension> com:_ExtensionType </loc:_distanceFromLinearElementStartExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DistanceFromLinearElementStart">
   <xs:complexContent>
      <xs:extension base="loc:DistanceAlongLinearElement">
         <xs:sequence>
            <xs:element name="distanceAlong" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_distanceFromLinearElementStartExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: ExternalReferencing

Super-types:	None
Sub-types:	None

Name	ExternalReferencing
Abstract	no
Documentation	A location defined by reference to an external/other referencing system.

XML Instance Representation

```
<...>
   <loc:externalLocationCode> com:String </loc:externalLocationCode> [1] ?
   <loc:externalReferencingSystem> com:String </loc:externalReferencingSystem> [1] ?
   <loc:_externalReferencingExtension> com:_ExtensionType </loc:_externalReferencingExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ExternalReferencing">
   <xs:sequence>
      <xs:element name="externalLocationCode" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="externalReferencingSystem" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_externalReferencingExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: GmlLineString

Super-types:	None
Sub-types:	• GmlLinearRing (by extension)

Name	GmlLineString
Abstract	no
Documentation	Line string based on GML (EN ISO 19136) definition: a curve defined by a series of two or more coordinate tuples. Unlike GML may be self-intersecting. If srsName attribute is not present, posList is assumed to use "ETRS89-LatLonh" reference system.

XML Instance Representation

```
<...
 srsDimension="com:NonNegativeInteger [0..1] ?"
 srsName="com:String [0..1] ?">
   <loc:posList> loc:GmlPosList </loc:posList> [1] ?
   <loc:_gmlLineStringExtension> com:_ExtensionType </loc:_gmlLineStringExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GmlLineString">
   <xs:sequence>
      <xs:element name="posList" type="loc:GmlPosList" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_gmlLineStringExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
   <xs:attribute name="srsDimension" type="com:NonNegativeInteger" use="optional"/>
   <xs:attribute name="srsName" type="com:String" use="optional"/>
</xs:complexType>
```

top

Complex Type: GmlLinearRing

Super-types:	GmlLineString < **GmlLinearRing** (by extension)
Sub-types:	None

Name	GmlLinearRing
Abstract	no
Documentation	Closed line string not self-intersecting (i.e. having as last point the first point)

XML Instance Representation

```
<...
 srsDimension="com:NonNegativeInteger [0..1] ?"
 srsName="com:String [0..1] ?">
   <loc:posList> loc:GmlPosList </loc:posList> [1] ?
   <loc:_gmlLineStringExtension> com:_ExtensionType </loc:_gmlLineStringExtension> [0..1]
   <loc:_gmlLinearRingExtension> com:_ExtensionType </loc:_gmlLinearRingExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="GmlLinearRing">
   <xs:complexContent>
      <xs:extension base="loc:GmlLineString">
         <xs:sequence>
            <xs:element name="_gmlLinearRingExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: GmlMultiPolygon

Super-types:	None
Sub-types:	None

Name	GmlMultiPolygon
Abstract	no
Documentation	An area defined by a set of polygons acording to GML (EN ISO 19136).

XML Instance Representation

```
<.../>
   <loc:gmlAreaName> com:MultilingualString </loc:gmlAreaName> [0..1] ?
   <loc:gmlPolygon> loc:GmlPolygon </loc:gmlPolygon> [1..*]
   <loc:_gmlMultiPolygonExtension> com:_ExtensionType </loc:_gmlMultiPolygonExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="GmlMultiPolygon">
   <xs:sequence>
      <xs:element name="gmlAreaName" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="gmlPolygon" type="loc:GmlPolygon" maxOccurs="unbounded"/>
      <xs:element name="_gmlMultiPolygonExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: GmlPolygon

Super-types:	None
Sub-types:	None

Name	GmlPolygon
Abstract	no
Documentation	Planar surface defined by 1 exterior boundary and 0 or more interior boundaries

XML Instance Representation

```
<.../>
   <loc:exterior> loc:GmlLinearRing </loc:exterior> [1] ?
   <loc:interior> loc:GmlLinearRing </loc:interior> [0..*] ?
   <loc:_gmlPolygonExtension> com:_ExtensionType </loc:_gmlPolygonExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="GmlPolygon">
   <xs:sequence>
      <xs:element name="exterior" type="loc:GmlLinearRing"/>
      <xs:element name="interior" type="loc:GmlLinearRing" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="_gmlPolygonExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: HeightCoordinate

Super-types:	None
Sub-types:	None

Name	HeightCoordinate
Abstract	no
Documentation	Third coordinate for points defined geodetically

XML Instance Representation

```
<...>
   <loc:heightValue> com:MetresAsFloat </loc:heightValue> [1] ?
   <loc:heightType> loc:_HeightTypeEnum </loc:heightType> [0..1] ?
   <loc:altitudeConfidence> loc:AltitudeConfidence </loc:altitudeConfidence> [0..1]
   <loc:verticalPositionAccuracy> loc:PositionAccuracy </loc:verticalPositionAccuracy> [0..1] ?
   <loc:_heightCoordinateExtension> com:_ExtensionType </loc:_heightCoordinateExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="HeightCoordinate">
   <xs:sequence>
      <xs:element name="heightValue" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
      <xs:element name="heightType" type="loc:_HeightTypeEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="altitudeConfidence" type="loc:AltitudeConfidence" minOccurs="0"/>
      <xs:element name="verticalPositionAccuracy" type="loc:PositionAccuracy" minOccurs="0"/>
      <xs:element name="_heightCoordinateExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: IsoNamedArea

Super-types:	NamedArea < NamedArea (by extension) < **IsoNamedArea** (by extension)
Sub-types:	None

Name	IsoNamedArea
Abstract	no
Documentation	The ISO 3166-2 representation for the named area.

XML Instance Representation

```
<...>
   <!-- 'com:NamedArea' super type was not found in this schema. Some elements and attributes may be missing. -->
   <loc:areaName> com:MultilingualString </loc:areaName> [1] ?
   <loc:namedAreaType> loc:_NamedAreaTypeEnum </loc:namedAreaType> [0..1] ?
   <loc:country> com:CountryCode </loc:country> [0..1] ?
   <loc:_namedAreaExtension> loc:_NamedAreaExtensionType </loc:_namedAreaExtension> [0..1]
   <loc:subdivisionType> loc:_SubdivisionTypeEnum </loc:subdivisionType> [1] ?
   <loc:subdivisionCode> loc:SubdivisionCode </loc:subdivisionCode> [1] ?
   <loc:_isoNamedAreaExtension> com:_ExtensionType </loc:_isoNamedAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="IsoNamedArea">
   <xs:complexContent>
      <xs:extension base="loc:NamedArea">
         <xs:sequence>
            <xs:element name="subdivisionType" type="loc:_SubdivisionTypeEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="subdivisionCode" type="loc:SubdivisionCode" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_isoNamedAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Itinerary

Super-types:	LocationReference < **Itinerary** (by extension)
Sub-types:	• ItineraryByIndexedLocations (by extension) • ItineraryByReference (by extension)

Name	Itinerary
Abstract	yes
Documentation	Multiple (i.e. more than one) physically separate locations arranged as an ordered set that defines an itinerary or route.

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:routeDestination> loc:Destination </loc:routeDestination> [0..*] ?
   <loc:_itineraryExtension> com:_ExtensionType </loc:_itineraryExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Itinerary" abstract="true">
   <xs:complexContent>
```

```
    <xs:extension base="loc:LocationReference">
      <xs:sequence>
        <xs:element name="routeDestination" type="loc:Destination" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="_itineraryExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: ItineraryByIndexedLocations

Super-types:	LocationReference < Itinerary (by extension) < **ItineraryByIndexedLocations** (by extension)
Sub-types:	None

Name	ItineraryByIndexedLocations
Abstract	no
Documentation	Multiple physically separate locations arranged as an ordered set that defines an itinerary or route. The index qualifier indicates the order.

XML Instance Representation

```
<...>
  <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
  <loc:routeDestination> loc:Destination </loc:routeDestination> [0..*] ?
  <loc:_itineraryExtension> com:_ExtensionType </loc:_itineraryExtension> [0..1]
  <loc:locationContainedInItinerary> loc:_LocationContainedInItinerary </loc:locationContainedInItinerary> [0..*] ?
  <loc:_itineraryByIndexedLocationsExtension> com:_ExtensionType </loc:_itineraryByIndexedLocationsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ItineraryByIndexedLocations">
  <xs:complexContent>
    <xs:extension base="loc:Itinerary">
      <xs:sequence>
        <xs:element name="locationContainedInItinerary" type="loc:_LocationContainedInItinerary" minOccurs="0"
        maxOccurs="unbounded"/>
        <xs:element name="_itineraryByIndexedLocationsExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: ItineraryByReference

Super-types:	LocationReference < Itinerary (by extension) < **ItineraryByReference** (by extension)
Sub-types:	None

Name	ItineraryByReference
Abstract	no
Documentation	Multiple (i.e. more than one) physically separate locations which are ordered that constitute an itinerary or route where they are defined by reference to a predefined itinerary.

XML Instance Representation

```
<...>
  <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
  <loc:routeDestination> loc:Destination </loc:routeDestination> [0..*] ?
  <loc:_itineraryExtension> com:_ExtensionType </loc:_itineraryExtension> [0..1]
  <loc:predefinedItineraryReference> loc:_PredefinedItineraryVersionedReference </loc:predefinedItineraryReference>
  [1] ?
  <loc:_itineraryByReferenceExtension> com:_ExtensionType </loc:_itineraryByReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ItineraryByReference">
  <xs:complexContent>
    <xs:extension base="loc:Itinerary">
      <xs:sequence>
        <xs:element name="predefinedItineraryReference" type="loc:_PredefinedItineraryVersionedReference"
        minOccurs="1" maxOccurs="1"/>
        <xs:element name="_itineraryByReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Lane

Super-types:	None
Sub-types:	None

Name	Lane
Abstract	no

Documentation Indicates a specific lane or group of lanes.

XML Instance Representation

```
<...>
   <loc:laneNumber> com:Integer </loc:laneNumber> [0..1] ?
   <loc:laneUsage> loc:_LaneEnum </loc:laneUsage> [0..1] ?
   <loc:_laneExtension> com:_ExtensionType </loc:_laneExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Lane">
   <xs:sequence>
      <xs:element name="laneNumber" type="com:Integer" minOccurs="0" maxOccurs="1"/>
      <xs:element name="laneUsage" type="loc:_LaneEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_laneExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: LinearElement

Super-types: None

Sub-types:

- LinearElementByCode (by extension)
- LinearElementByLineString (by extension)
- LinearElementByPoints (by extension)

Name LinearElement

Abstract no

Documentation A linear element along a single linear object, consistent with EN ISO 19148 definitions.

XML Instance Representation

```
<...>
   <loc:roadName> com:MultilingualString </loc:roadName> [0..1] ?
   <loc:roadNumber> com:String </loc:roadNumber> [0..1] ?
   <loc:linearElementReferenceModel> com:String </loc:linearElementReferenceModel> [0..1] ?
   <loc:linearElementReferenceModelVersion> com:String </loc:linearElementReferenceModelVersion> [0..1] ?
   <loc:linearElementNature> loc:_LinearElementNatureEnum </loc:linearElementNature> [0..1] ?
   <loc:_linearElementExtension> com:_ExtensionType </loc:_linearElementExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearElement">
   <xs:sequence>
      <xs:element name="roadName" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="roadNumber" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="linearElementReferenceModel" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="linearElementReferenceModelVersion" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="linearElementNature" type="loc:_LinearElementNatureEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_linearElementExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: LinearElementByCode

Super-types: LinearElement < **LinearElementByCode** (by extension)

Sub-types: None

Name LinearElementByCode

Abstract no

Documentation A linear element along a single linear object defined by its identifier or code in a road network reference model (specified in LinearElement class) which segments the road network according to specific business rules.

XML Instance Representation

```
<...>
   <loc:roadName> com:MultilingualString </loc:roadName> [0..1] ?
   <loc:roadNumber> com:String </loc:roadNumber> [0..1] ?
   <loc:linearElementReferenceModel> com:String </loc:linearElementReferenceModel> [0..1] ?
   <loc:linearElementReferenceModelVersion> com:String </loc:linearElementReferenceModelVersion> [0..1] ?
   <loc:linearElementNature> loc:_LinearElementNatureEnum </loc:linearElementNature> [0..1] ?
   <loc:_linearElementExtension> com:_ExtensionType </loc:_linearElementExtension> [0..1]
   <loc:linearElementIdentifier> com:String </loc:linearElementIdentifier> [1] ?
   <loc:_linearElementByCodeExtension> com:_ExtensionType </loc:_linearElementByCodeExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearElementByCode">
   <xs:complexContent>
      <xs:extension base="loc:LinearElement">
         <xs:sequence>
            <xs:element name="linearElementIdentifier" type="com:String" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_linearElementByCodeExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
```

```
</xs:complexType>
```

top

Complex Type: LinearElementByLineString

Super-types:	LinearElement < **LinearElementByLineString** (by extension)
Sub-types:	None

Name	LinearElementByLineString
Abstract	no
Documentation	A linear element defined by a line string (class GmlLineString).

XML Instance Representation

```
<...>
   <loc:roadName> com:MultilingualString </loc:roadName> [0..1] ?
   <loc:roadNumber> com:String </loc:roadNumber> [0..1] ?
   <loc:linearElementReferenceModel> com:String </loc:linearElementReferenceModel> [0..1] ?
   <loc:linearElementReferenceModelVersion> com:String </loc:linearElementReferenceModelVersion> [0..1] ?
   <loc:linearElementNature> loc:_LinearElementNatureEnum </loc:linearElementNature> [0..1] ?
   <loc:_linearElementExtension> com:_ExtensionType </loc:_linearElementExtension> [0..1]
   <loc:gmlLineString> loc:GmlLineString </loc:gmlLineString> [1]
   <loc:_linearElementByLineStringExtension> com:_ExtensionType </loc:_linearElementByLineStringExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearElementByLineString">
   <xs:complexContent>
      <xs:extension base="loc:LinearElement">
         <xs:sequence>
            <xs:element name="gmlLineString" type="loc:GmlLineString"/>
            <xs:element name="_linearElementByLineStringExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: LinearElementByPoints

Super-types:	LinearElement < **LinearElementByPoints** (by extension)
Sub-types:	None

Name	LinearElementByPoints
Abstract	no
Documentation	A linear element along a single linear object defined by its start and end points.

XML Instance Representation

```
<...>
   <loc:roadName> com:MultilingualString </loc:roadName> [0..1] ?
   <loc:roadNumber> com:String </loc:roadNumber> [0..1] ?
   <loc:linearElementReferenceModel> com:String </loc:linearElementReferenceModel> [0..1] ?
   <loc:linearElementReferenceModelVersion> com:String </loc:linearElementReferenceModelVersion> [0..1] ?
   <loc:linearElementNature> loc:_LinearElementNatureEnum </loc:linearElementNature> [0..1] ?
   <loc:_linearElementExtension> com:_ExtensionType </loc:_linearElementExtension> [0..1]
   <loc:startPointOfLinearElement> loc:Referent </loc:startPointOfLinearElement> [1] ?
   <loc:intermediatePointOnLinearElement> loc:_IntermediatePointOnLinearElement
   </loc:intermediatePointOnLinearElement> [0..*] ?
   <loc:endPointOfLinearElement> loc:Referent </loc:endPointOfLinearElement> [1] ?
   <loc:_linearElementByPointsExtension> com:_ExtensionType </loc:_linearElementByPointsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearElementByPoints">
   <xs:complexContent>
      <xs:extension base="loc:LinearElement">
         <xs:sequence>
            <xs:element name="startPointOfLinearElement" type="loc:Referent"/>
            <xs:element name="intermediatePointOnLinearElement" type="loc:_IntermediatePointOnLinearElement"
            minOccurs="0" maxOccurs="unbounded"/>
            <xs:element name="endPointOfLinearElement" type="loc:Referent"/>
            <xs:element name="_linearElementByPointsExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: LinearLocation

Super-types:	LocationReference < Location (by extension) < NetworkLocation (by extension) < **LinearLocation** (by extension)
Sub-types:	• SingleRoadLinearLocation (by extension)

Name	LinearLocation

Abstract	no
Documentation	Location representing a linear section with optional directionality defined between two points.

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:externalReferencing> loc:ExternalReferencing </loc:externalReferencing> [0..*]
   <loc:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [0..1] ?
   <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
   <loc:supplementaryPositionalDescription> loc:SupplementaryPositionalDescription
   </loc:supplementaryPositionalDescription> [0..1]
   <loc:destination> loc:Destination </loc:destination> [0..1]
   <loc:_networkLocationExtension> com:_ExtensionType </loc:_networkLocationExtension> [0..1]
   <loc:openlrLinear> loc:OpenlrLinear </loc:openlrLinear> [0..1]
   <loc:gmlLineString> loc:GmlLineString </loc:gmlLineString> [0..1]
   <loc:secondarySupplementaryDescription> loc:SupplementaryPositionalDescription
   </loc:secondarySupplementaryDescription> [0..1] ?
   <loc:_linearLocationExtension> com:_ExtensionType </loc:_linearLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearLocation">
   <xs:complexContent>
      <xs:extension base="loc:NetworkLocation">
         <xs:sequence>
            <xs:element name="openlrLinear" type="loc:OpenlrLinear" minOccurs="0"/>
            <xs:element name="gmlLineString" type="loc:GmlLineString" minOccurs="0"/>
            <xs:element name="secondarySupplementaryDescription" type="loc:SupplementaryPositionalDescription"
            minOccurs="0"/>
            <xs:element name="_linearLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: LinearWithinLinearElement

Super-types:	None
Sub-types:	None

Name	LinearWithinLinearElement
Abstract	no
Documentation	A linear section along a linear element where the linear element is either a part of or the whole of a linear object (i.e. a road), consistent with ISO 19148 definitions.

XML Instance Representation

```
<...>
   <loc:administrativeAreaOfLinearSection> com:MultilingualString </loc:administrativeAreaOfLinearSection> [0..1] ?
   <loc:directionOnLinearSection> loc:_DirectionEnum </loc:directionOnLinearSection> [0..1] ?
   <loc:directionRelativeOnLinearSection> loc:_LinearDirectionEnum </loc:directionRelativeOnLinearSection> [0..1] ?
   <loc:heightGradeOfLinearSection> loc:_HeightGradeEnum </loc:heightGradeOfLinearSection> [0..1] ?
   <loc:linearElement> loc:LinearElement </loc:linearElement> [1]
   <loc:fromPoint> loc:DistanceAlongLinearElement </loc:fromPoint> [1] ?
   <loc:toPoint> loc:DistanceAlongLinearElement </loc:toPoint> [1] ?
   <loc:_linearWithinLinearElementExtension> com:_ExtensionType </loc:_linearWithinLinearElementExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearWithinLinearElement">
   <xs:sequence>
      <xs:element name="administrativeAreaOfLinearSection" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="directionOnLinearSection" type="loc:_DirectionEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="directionRelativeOnLinearSection" type="loc:_LinearDirectionEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="heightGradeOfLinearSection" type="loc:_HeightGradeEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="linearElement" type="loc:LinearElement"/>
      <xs:element name="fromPoint" type="loc:DistanceAlongLinearElement"/>
      <xs:element name="toPoint" type="loc:DistanceAlongLinearElement"/>
      <xs:element name="_linearWithinLinearElementExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: Location

Super-types:	LocationReference < **Location** (by extension)

Sub-types:	• AreaLocation (by extension)
	• LocationByReference (by extension)
	• NetworkLocation (by extension)
	  ◦ LinearLocation (by extension)
	  ▪ SingleRoadLinearLocation (by extension)
	  ◦ PointLocation (by extension)

Name	Location
Abstract	yes
Documentation	The specification of a location either on a network (as a point or a linear location) or as an area. This may be provided in one or more referencing systems.

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:externalReferencing> loc:ExternalReferencing </loc:externalReferencing> [0..*]
   <loc:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [0..1] ?
   <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Location" abstract="true">
   <xs:complexContent>
      <xs:extension base="loc:LocationReference">
         <xs:sequence>
            <xs:element name="externalReferencing" type="loc:ExternalReferencing" minOccurs="0" maxOccurs="unbounded"/>
            <xs:element name="coordinatesForDisplay" type="loc:PointCoordinates" minOccurs="0"/>
            <xs:element name="_locationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: LocationByReference

Super-types:	LocationReference < Location (by extension) < **LocationByReference** (by extension)
Sub-types:	None

Name	LocationByReference
Abstract	no
Documentation	A location defined by reference to a predefined location.

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:externalReferencing> loc:ExternalReferencing </loc:externalReferencing> [0..*]
   <loc:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [0..1] ?
   <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
   <loc:predefinedLocationReference> loc:_PredefinedLocationVersionedReference </loc:predefinedLocationReference> [1]
   ?
   <loc:_locationByReferenceExtension> com:_ExtensionType </loc:_locationByReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LocationByReference">
   <xs:complexContent>
      <xs:extension base="loc:Location">
         <xs:sequence>
            <xs:element name="predefinedLocationReference" type="loc:_PredefinedLocationVersionedReference"
            minOccurs="1" maxOccurs="1"/>
            <xs:element name="_locationByReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: LocationGroup

Super-types:	LocationReference < **LocationGroup** (by extension)
Sub-types:	• LocationGroupByList (by extension) • LocationGroupByReference (by extension)

Name	LocationGroup
Abstract	yes
Documentation	Multiple (i.e. more than one) physically separate locations which have no specific order.

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:_locationGroupExtension> com:_ExtensionType </loc:_locationGroupExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LocationGroup" abstract="true">
   <xs:complexContent>
      <xs:extension base="loc:LocationReference">
         <xs:sequence>
            <xs:element name="_locationGroupExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: LocationGroupByList

Super-types:	LocationReference < LocationGroup (by extension) < **LocationGroupByList** (by extension)
Sub-types:	None

Name	LocationGroupByList
Abstract	no
Documentation	A group of (i.e. more than one) physically separate locations which have no specific order and where each location is explicitly listed.

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:_locationGroupExtension> com:_ExtensionType </loc:_locationGroupExtension> [0..1]
   <loc:locationContainedInGroup> loc:Location </loc:locationContainedInGroup> [2..*] ?
   <loc:_locationGroupByListExtension> com:_ExtensionType </loc:_locationGroupByListExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LocationGroupByList">
   <xs:complexContent>
      <xs:extension base="loc:LocationGroup">
         <xs:sequence>
            <xs:element name="locationContainedInGroup" type="loc:Location" minOccurs="2" maxOccurs="unbounded"/>
            <xs:element name="_locationGroupByListExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: LocationGroupByReference

Super-types:	LocationReference < LocationGroup (by extension) < **LocationGroupByReference** (by extension)
Sub-types:	None

Name	LocationGroupByReference
Abstract	no
Documentation	A group of (i.e. more than one) physically separate locations which have no specific order that are defined by reference to a predefined non ordered location group.

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:_locationGroupExtension> com:_ExtensionType </loc:_locationGroupExtension> [0..1]
   <loc:predefinedLocationGroupReference> loc:_PredefinedLocationGroupVersionedReference
   </loc:predefinedLocationGroupReference> [1] ?
   <loc:_locationGroupByReferenceExtension> com:_ExtensionType </loc:_locationGroupByReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LocationGroupByReference">
   <xs:complexContent>
      <xs:extension base="loc:LocationGroup">
         <xs:sequence>
            <xs:element name="predefinedLocationGroupReference" type="loc:_PredefinedLocationGroupVersionedReference"
            minOccurs="1" maxOccurs="1"/>
            <xs:element name="_locationGroupByReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: LocationReference

Super-types:	None

Sub-types:	• Itinerary (by extension)
	  ◦ ItineraryByIndexedLocations (by extension)
	  ◦ ItineraryByReference (by extension)
	• Location (by extension)
	  ◦ AreaLocation (by extension)
	  ◦ LocationByReference (by extension)
	  ◦ NetworkLocation (by extension)
	  ▪ LinearLocation (by extension)
	  ▪ SingleRoadLinearLocation (by extension)
	  ▪ PointLocation (by extension)
	• LocationGroup (by extension)
	  ◦ LocationGroupByList (by extension)
	  ◦ LocationGroupByReference (by extension)

Name	LocationReference
Abstract	yes
Documentation	Represents one or more physically separate locations. Multiple locations may be related, as in an itinerary or route, or may be unrelated. One LocationReference should not use multiple Location objects to represent the

same physical location.

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LocationReference" abstract="true">
   <xs:sequence>
      <xs:element name="_locationReferenceExtension" type="loc:_LocationReferenceExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: NamedArea

Super-types:	NamedArea < **NamedArea** (by extension)
Sub-types:	• IsoNamedArea (by extension) • NamedArea (by extension) • NutsNamedArea (by extension)

Name	NamedArea
Abstract	no
Documentation	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.

XML Instance Representation

```
<...>
   <!-- 'com:NamedArea' super type was not found in this schema. Some elements and attributes may be missing. -->
   <loc:areaName> com:MultilingualString </loc:areaName> [1] ?
   <loc:namedAreaType> loc:_NamedAreaTypeEnum </loc:namedAreaType> [0..1] ?
   <loc:country> com:CountryCode </loc:country> [0..1] ?
   <loc:_namedAreaExtension> loc:_NamedAreaExtensionType </loc:_namedAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NamedArea">
   <xs:complexContent>
      <xs:extension base="com:NamedArea">
         <xs:sequence>
            <xs:element name="areaName" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
            <xs:element name="namedAreaType" type="loc:_NamedAreaTypeEnum" minOccurs="0" maxOccurs="1"/>
            <xs:element name="country" type="com:CountryCode" minOccurs="0" maxOccurs="1"/>
            <xs:element name="_namedAreaExtension" type="loc:_NamedAreaExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: NetworkLocation

Super-types:	LocationReference < Location (by extension) < **NetworkLocation** (by extension)
Sub-types:	• LinearLocation (by extension) ◦ SingleRoadLinearLocation (by extension) • PointLocation (by extension)

Name	NetworkLocation
Abstract	yes
Documentation	The specification of a location on a network (as a point or a linear location).

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:externalReferencing> loc:ExternalReferencing </loc:externalReferencing> [0..*]
   <loc:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [0..1] ?
   <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
   <loc:supplementaryPositionalDescription> loc:SupplementaryPositionalDescription
   </loc:supplementaryPositionalDescription> [0..1]
   <loc:destination> loc:Destination </loc:destination> [0..1]
   <loc:_networkLocationExtension> com:_ExtensionType </loc:_networkLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NetworkLocation" abstract="true">
   <xs:complexContent>
      <xs:extension base="loc:Location">
         <xs:sequence>
            <xs:element name="supplementaryPositionalDescription" type="loc:SupplementaryPositionalDescription"
            minOccurs="0"/>
            <xs:element name="destination" type="loc:Destination" minOccurs="0"/>
            <xs:element name="_networkLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
```

```
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: NutsNamedArea

Super-types:	NamedArea < NamedArea (by extension) < **NutsNamedArea** (by extension)
Sub-types:	None

Name	NutsNamedArea
Abstract	no
Documentation	The NUTS-Code representation for the named area (Nomenclature of territorial units for statistics) or its LAU code representation (Local Administrative Unit).

XML Instance Representation

```
<...>
  <!-- 'com:NamedArea' super type was not found in this schema. Some elements and attributes may be missing. -->
  <loc:areaName> com:MultilingualString </loc:areaName> [1] ?
  <loc:namedAreaType> loc:_NamedAreaTypeEnum </loc:namedAreaType> [0..1] ?
  <loc:country> com:CountryCode </loc:country> [0..1] ?
  <loc:_namedAreaExtension> loc:_NamedAreaExtensionType </loc:_namedAreaExtension> [0..1]
  <loc:nutsCodeType> loc:_NutsCodeTypeEnum </loc:nutsCodeType> [1] ?
  <loc:nutsCode> loc:NutsCode </loc:nutsCode> [1] ?
  <loc:_nutsNamedAreaExtension> com:_ExtensionType </loc:_nutsNamedAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NutsNamedArea">
  <xs:complexContent>
    <xs:extension base="loc:NamedArea">
      <xs:sequence>
        <xs:element name="nutsCodeType" type="loc:_NutsCodeTypeEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="nutsCode" type="loc:NutsCode" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_nutsNamedAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OffsetDistance

Super-types:	None
Sub-types:	None

Name	OffsetDistance
Abstract	no
Documentation	The non-negative offset distance from the ALERT-C referenced point to the actual point.

XML Instance Representation

```
<...>
  <loc:offsetDistance> com:MetresAsNonNegativeInteger </loc:offsetDistance> [1] ?
  <loc:_offsetDistanceExtension> com:_ExtensionType </loc:_offsetDistanceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OffsetDistance">
  <xs:sequence>
    <xs:element name="offsetDistance" type="com:MetresAsNonNegativeInteger" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_offsetDistanceExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrAreaLocationReference

Super-types:	None
Sub-types:	• OpenlrCircleLocationReference (by extension) • OpenlrClosedLineLocationReference (by extension) • OpenlrGridLocationReference (by extension) • OpenlrPolygonLocationReference (by extension) • OpenlrRectangleLocationReference (by extension)

Name	OpenlrAreaLocationReference
Abstract	yes
Documentation	A two-dimensional part of the surface of the earth which is bounded by a closed curve. An area location may cover parts of the road network but does not necessarily need to. It is represented according to the OpenLR standard for Area Locations

XML Instance Representation

```
<...>
  <loc:_openlrAreaLocationReferenceExtension> com:_ExtensionType </loc:_openlrAreaLocationReferenceExtension> [0..1]
```

```
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrAreaLocationReference" abstract="true">
   <xs:sequence>
      <xs:element name="_openlrAreaLocationReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrBasePointLocation

Super-types:	OpenlrPointLocationReference < **OpenlrBasePointLocation** (by extension)
Sub-types:	• OpenlrPointAlongLine (by extension) • OpenlrPoiWithAccessPoint (by extension)

Name	OpenlrBasePointLocation
Abstract	yes
Documentation	Holds common data that are used both in OpenlrPointAccessPoint and OpenlrPointAlongLine.

XML Instance Representation

```
<...>
   <loc:_openlrPointLocationReferenceExtension> com:_ExtensionType </loc:_openlrPointLocationReferenceExtension>
   [0..1]
   <loc:openlrSideOfRoad> loc:_OpenlrSideOfRoadEnum </loc:openlrSideOfRoad> [1] ?
   <loc:openlrOrientation> loc:_OpenlrOrientationEnum </loc:openlrOrientation> [1] ?
   <loc:openlrLocationReferencePoint> loc:OpenlrLocationReferencePoint </loc:openlrLocationReferencePoint> [1] ?
   <loc:openlrLastLocationReferencePoint> loc:OpenlrLastLocationReferencePoint
   </loc:openlrLastLocationReferencePoint> [1] ?
   <loc:openlrOffsets> loc:OpenlrOffsets </loc:openlrOffsets> [0..1] ?
   <loc:_openlrBasePointLocationExtension> com:_ExtensionType </loc:_openlrBasePointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrBasePointLocation" abstract="true">
   <xs:complexContent>
      <xs:extension base="loc:OpenlrPointLocationReference">
         <xs:sequence>
            <xs:element name="openlrSideOfRoad" type="loc:_OpenlrSideOfRoadEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="openlrOrientation" type="loc:_OpenlrOrientationEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="openlrLocationReferencePoint" type="loc:OpenlrLocationReferencePoint"/>
            <xs:element name="openlrLastLocationReferencePoint" type="loc:OpenlrLastLocationReferencePoint"/>
            <xs:element name="openlrOffsets" type="loc:OpenlrOffsets" minOccurs="0"/>
            <xs:element name="_openlrBasePointLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrBaseReferencePoint

Super-types:	None
Sub-types:	• OpenlrLastLocationReferencePoint (by extension) • OpenlrLocationReferencePoint (by extension)

Name	OpenlrBaseReferencePoint
Abstract	yes
Documentation	Base class used to hold data about a reference point.

XML Instance Representation

```
<...>
   <loc:openlrCoordinates> loc:PointCoordinates </loc:openlrCoordinates> [1] ?
   <loc:openlrLineAttributes> loc:OpenlrLineAttributes </loc:openlrLineAttributes> [1] ?
   <loc:_openlrBaseReferencePointExtension> com:_ExtensionType </loc:_openlrBaseReferencePointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrBaseReferencePoint" abstract="true">
   <xs:sequence>
      <xs:element name="openlrCoordinates" type="loc:PointCoordinates"/>
      <xs:element name="openlrLineAttributes" type="loc:OpenlrLineAttributes"/>
      <xs:element name="_openlrBaseReferencePointExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrCircleLocationReference

Super-types:	OpenlrAreaLocationReference < **OpenlrCircleLocationReference** (by extension)
Sub-types:	None

Name	OpenlrCircleLocationReference
Abstract	no
Documentation	The OpenLR method of area definition by providing a center position and a radius

XML Instance Representation

```
<...>
   <loc:_openlrAreaLocationReferenceExtension> com:_ExtensionType </loc:_openlrAreaLocationReferenceExtension> [0..1]
   <loc:openlrRadius> com:MetresAsNonNegativeInteger </loc:openlrRadius> [1] ?
   <loc:openlrGeoCoordinate> loc:OpenlrGeoCoordinate </loc:openlrGeoCoordinate> [1]
   <loc:_openlrCircleLocationReferenceExtension> com:_ExtensionType </loc:_openlrCircleLocationReferenceExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrCircleLocationReference">
   <xs:complexContent>
      <xs:extension base="loc:OpenlrAreaLocationReference">
         <xs:sequence>
            <xs:element name="openlrRadius" type="com:MetresAsNonNegativeInteger" minOccurs="1" maxOccurs="1"/>
            <xs:element name="openlrGeoCoordinate" type="loc:OpenlrGeoCoordinate"/>
            <xs:element name="_openlrCircleLocationReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrClosedLineLocationReference

Super-types:	OpenlrAreaLocationReference < **OpenlrClosedLineLocationReference** (by extension)
Sub-types:	None

Name	OpenlrClosedLineLocationReference
Abstract	no
Documentation	The OpenLR method of area definition by providing a closed path (i.e. a circuit) in the road network. The boundary always consists of road segments

XML Instance Representation

```
<...>
   <loc:_openlrAreaLocationReferenceExtension> com:_ExtensionType </loc:_openlrAreaLocationReferenceExtension> [0..1]
   <loc:openlrLocationReferencePoint> loc:OpenlrLocationReferencePoint </loc:openlrLocationReferencePoint> [1..*]
   <loc:openlrLastLine> loc:OpenlrLastLocationReferencePoint </loc:openlrLastLine> [1] ?
   <loc:_openlrClosedLineLocationReferenceExtension> com:_ExtensionType
   </loc:_openlrClosedLineLocationReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrClosedLineLocationReference">
   <xs:complexContent>
      <xs:extension base="loc:OpenlrAreaLocationReference">
         <xs:sequence>
            <xs:element name="openlrLocationReferencePoint" type="loc:OpenlrLocationReferencePoint"
            maxOccurs="unbounded"/>
            <xs:element name="openlrLastLine" type="loc:OpenlrLastLocationReferencePoint"/>
            <xs:element name="_openlrClosedLineLocationReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrGeoCoordinate

Super-types:	OpenlrPointLocationReference < **OpenlrGeoCoordinate** (by extension)
Sub-types:	None

Name	OpenlrGeoCoordinate
Abstract	no
Documentation	A geo-coordinate pair is a position in a map defined by its longitude and latitude coordinate values.

XML Instance Representation

```
<...>
   <loc:_openlrPointLocationReferenceExtension> com:_ExtensionType </loc:_openlrPointLocationReferenceExtension>
   [0..1]
   <loc:openlrCoordinates> loc:PointCoordinates </loc:openlrCoordinates> [1] ?
   <loc:_openlrGeoCoordinateExtension> com:_ExtensionType </loc:_openlrGeoCoordinateExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrGeoCoordinate">
   <xs:complexContent>
      <xs:extension base="loc:OpenlrPointLocationReference">
         <xs:sequence>
            <xs:element name="openlrCoordinates" type="loc:PointCoordinates"/>
            <xs:element name="_openlrGeoCoordinateExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
```

```
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrGridLocationReference

Super-types:	OpenlrAreaLocationReference < **OpenlrGridLocationReference** (by extension)
Sub-types:	None

Name	OpenlrGridLocationReference
Abstract	no
Documentation	Area defined using an OpenLR™ method consisting in defining it by a tessellation of rectangles

XML Instance Representation

```
<...>
  <loc:_openlrAreaLocationReferenceExtension> com:_ExtensionType </loc:_openlrAreaLocationReferenceExtension> [0..1]
  <loc:openlrNumColumns> com:NonNegativeInteger </loc:openlrNumColumns> [1] ?
  <loc:openlrNumRows> com:NonNegativeInteger </loc:openlrNumRows> [1] ?
  <loc:openlrRectangle> loc:OpenlrRectangle </loc:openlrRectangle> [1]
  <loc:_openlrGridLocationReferenceExtension> com:_ExtensionType </loc:_openlrGridLocationReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrGridLocationReference">
  <xs:complexContent>
    <xs:extension base="loc:OpenlrAreaLocationReference">
      <xs:sequence>
        <xs:element name="openlrNumColumns" type="com:NonNegativeInteger" minOccurs="1" maxOccurs="1"/>
        <xs:element name="openlrNumRows" type="com:NonNegativeInteger" minOccurs="1" maxOccurs="1"/>
        <xs:element name="openlrRectangle" type="loc:OpenlrRectangle"/>
        <xs:element name="_openlrGridLocationReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrLastLocationReferencePoint

Super-types:	OpenlrBaseReferencePoint < **OpenlrLastLocationReferencePoint** (by extension)
Sub-types:	None

Name	OpenlrLastLocationReferencePoint
Abstract	no
Documentation	The sequence of location reference points is terminated by a last location reference point.

XML Instance Representation

```
<...>
  <loc:openlrCoordinates> loc:PointCoordinates </loc:openlrCoordinates> [1] ?
  <loc:openlrLineAttributes> loc:OpenlrLineAttributes </loc:openlrLineAttributes> [1] ?
  <loc:_openlrBaseReferencePointExtension> com:_ExtensionType </loc:_openlrBaseReferencePointExtension> [0..1]
  <loc:_openlrLastLocationReferencePointExtension> com:_ExtensionType
  </loc:_openlrLastLocationReferencePointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrLastLocationReferencePoint">
  <xs:complexContent>
    <xs:extension base="loc:OpenlrBaseReferencePoint">
      <xs:sequence>
        <xs:element name="_openlrLastLocationReferencePointExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrLineAttributes

Super-types:	None
Sub-types:	None

Name	OpenlrLineAttributes
Abstract	no
Documentation	Line attributes are part of a location reference point and consists of functional road class (FRC),form of way (FOW) and bearing (BEAR) data.

XML Instance Representation

```
<...>
  <loc:openlrFunctionalRoadClass> loc:_OpenlrFunctionalRoadClassEnum </loc:openlrFunctionalRoadClass> [1] ?
  <loc:openlrFormOfWay> loc:_OpenlrFormOfWayEnum </loc:openlrFormOfWay> [1] ?
  <loc:openlrBearing> com:AngleInDegrees </loc:openlrBearing> [1] ?
```

```
   <loc:_openlrLineAttributesExtension> com:_ExtensionType </loc:_openlrLineAttributesExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="OpenlrLineAttributes">
   <xs:sequence>
      <xs:element name="openlrFunctionalRoadClass" type="loc:_OpenlrFunctionalRoadClassEnum" minOccurs="1"
      maxOccurs="1"/>
      <xs:element name="openlrFormOfWay" type="loc:_OpenlrFormOfWayEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="openlrBearing" type="com:AngleInDegrees" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_openlrLineAttributesExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrLineLocationReference

Super-types:	None
Sub-types:	None

Name	OpenlrLineLocationReference
Abstract	no
Documentation	A line location reference is defined by an ordered sequence of location reference points and a terminating last location reference point.

XML Instance Representation

```
<.../>
   <loc:openlrLocationReferencePoint> loc:OpenlrLocationReferencePoint </loc:openlrLocationReferencePoint> [1..*]
   <loc:openlrLastLocationReferencePoint> loc:OpenlrLastLocationReferencePoint
   </loc:openlrLastLocationReferencePoint> [1]
   <loc:openlrOffsets> loc:OpenlrOffsets </loc:openlrOffsets> [0..1] ?
   <loc:_openlrLineLocationReferenceExtension> com:_ExtensionType </loc:_openlrLineLocationReferenceExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="OpenlrLineLocationReference">
   <xs:sequence>
      <xs:element name="openlrLocationReferencePoint" type="loc:OpenlrLocationReferencePoint" maxOccurs="unbounded"/>
      <xs:element name="openlrLastLocationReferencePoint" type="loc:OpenlrLastLocationReferencePoint"/>
      <xs:element name="openlrOffsets" type="loc:OpenlrOffsets" minOccurs="0"/>
      <xs:element name="_openlrLineLocationReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrLinear

Super-types:	None
Sub-types:	None

Name	OpenlrLinear
Abstract	no
Documentation	OpenLR line location reference

XML Instance Representation

```
<.../>
   <loc:firstDirection> loc:OpenlrLineLocationReference </loc:firstDirection> [1] ?
   <loc:oppositeDirection> loc:OpenlrLineLocationReference </loc:oppositeDirection> [0..1] ?
   <loc:_openlrLinearExtension> com:_ExtensionType </loc:_openlrLinearExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="OpenlrLinear">
   <xs:sequence>
      <xs:element name="firstDirection" type="loc:OpenlrLineLocationReference"/>
      <xs:element name="oppositeDirection" type="loc:OpenlrLineLocationReference" minOccurs="0"/>
      <xs:element name="_openlrLinearExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrLocationReferencePoint

Super-types:	OpenlrBaseReferencePoint < **OpenlrLocationReferencePoint** (by extension)
Sub-types:	None

Name	OpenlrLocationReferencePoint
Abstract	no
Documentation	The basis of a location reference is a sequence of location reference points (LRPs).

XML Instance Representation

```
<.../>
```

```
<loc:openlrCoordinates> loc:PointCoordinates </loc:openlrCoordinates> [1] ?
<loc:openlrLineAttributes> loc:OpenlrLineAttributes </loc:openlrLineAttributes> [1] ?
<loc:_openlrBaseReferencePointExtension> com:_ExtensionType </loc:_openlrBaseReferencePointExtension> [0..1]
<loc:openlrPathAttributes> loc:OpenlrPathAttributes </loc:openlrPathAttributes> [1] ?
<loc:_openlrLocationReferencePointExtension> com:_ExtensionType </loc:_openlrLocationReferencePointExtension>
[0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrLocationReferencePoint">
  <xs:complexContent>
    <xs:extension base="loc:OpenlrBaseReferencePoint">
      <xs:sequence>
        <xs:element name="openlrPathAttributes" type="loc:OpenlrPathAttributes"/>
        <xs:element name="_openlrLocationReferencePointExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrOffsets

Super-types:	None
Sub-types:	None

Name	OpenlrOffsets
Abstract	no
Documentation	Offsets are used to locate the start and end of a location more precisely than bounding to the nodes in a network.

XML Instance Representation

```
<...>
  <loc:openlrPositiveOffset> com:MetresAsNonNegativeInteger </loc:openlrPositiveOffset> [0..1] ?
  <loc:openlrNegativeOffset> com:MetresAsNonNegativeInteger </loc:openlrNegativeOffset> [0..1] ?
  <loc:_openlrOffsetsExtension> com:_ExtensionType </loc:_openlrOffsetsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrOffsets">
  <xs:sequence>
    <xs:element name="openlrPositiveOffset" type="com:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="openlrNegativeOffset" type="com:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_openlrOffsetsExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrPathAttributes

Super-types:	None
Sub-types:	None

Name	OpenlrPathAttributes
Abstract	no
Documentation	Properties of the path from the associated location reference point to the next location reference point, which are specified to assist correct identification of the point in an external map data source.

XML Instance Representation

```
<...>
  <loc:openlrLowestFrcToNextLRPoint> loc:_OpenlrFunctionalRoadClassEnum </loc:openlrLowestFrcToNextLRPoint> [1] ?
  <loc:openlrDistanceToNextLRPoint> com:NonNegativeInteger </loc:openlrDistanceToNextLRPoint> [1] ?
  <loc:_openlrPathAttributesExtension> com:_ExtensionType </loc:_openlrPathAttributesExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrPathAttributes">
  <xs:sequence>
    <xs:element name="openlrLowestFrcToNextLRPoint" type="loc:_OpenlrFunctionalRoadClassEnum" minOccurs="1"
    maxOccurs="1"/>
    <xs:element name="openlrDistanceToNextLRPoint" type="com:NonNegativeInteger" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_openlrPathAttributesExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrPoiWithAccessPoint

Super-types:	OpenlrPointLocationReference < OpenlrBasePointLocation (by extension) < **OpenlrPoiWithAccessPoint** (by extension)
Sub-types:	None

Name	OpenlrPoiWithAccessPoint
Abstract	no

Documentation A point of interest (POI) along a line with access is a point location which is defined by a linear reference path, an offset value (defining the access point) from the starting node of this path and a coordinate pair that defines the POI itself.

XML Instance Representation

```
<...>
   <loc:_openlrPointLocationReferenceExtension> com:_ExtensionType </loc:_openlrPointLocationReferenceExtension>
   [0..1]
   <loc:openlrSideOfRoad> loc:_OpenlrSideOfRoadEnum </loc:openlrSideOfRoad> [1] ?
   <loc:openlrOrientation> loc:_OpenlrOrientationEnum </loc:openlrOrientation> [1] ?
   <loc:openlrLocationReferencePoint> loc:OpenlrLocationReferencePoint </loc:openlrLocationReferencePoint> [1] ?
   <loc:openlrLastLocationReferencePoint> loc:OpenlrLastLocationReferencePoint
   </loc:openlrLastLocationReferencePoint> [1] ?
   <loc:openlrOffsets> loc:OpenlrOffsets </loc:openlrOffsets> [0..1] ?
   <loc:_openlrBasePointLocationExtension> com:_ExtensionType </loc:_openlrBasePointLocationExtension> [0..1]
   <loc:openlrCoordinates> loc:PointCoordinates </loc:openlrCoordinates> [1] ?
   <loc:_openlrPoiWithAccessPointExtension> com:_ExtensionType </loc:_openlrPoiWithAccessPointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrPoiWithAccessPoint">
   <xs:complexContent>
      <xs:extension base="loc:OpenlrBasePointLocation">
         <xs:sequence>
            <xs:element name="openlrCoordinates" type="loc:PointCoordinates"/>
            <xs:element name="_openlrPoiWithAccessPointExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrPointAlongLine

Super-types: OpenlrPointLocationReference < OpenlrBasePointLocation (by extension) < **OpenlrPointAlongLine** (by extension)

Sub-types: None

Name OpenlrPointAlongLine

Abstract no

Documentation Point along a line

XML Instance Representation

```
<...>
   <loc:_openlrPointLocationReferenceExtension> com:_ExtensionType </loc:_openlrPointLocationReferenceExtension>
   [0..1]
   <loc:openlrSideOfRoad> loc:_OpenlrSideOfRoadEnum </loc:openlrSideOfRoad> [1] ?
   <loc:openlrOrientation> loc:_OpenlrOrientationEnum </loc:openlrOrientation> [1] ?
   <loc:openlrLocationReferencePoint> loc:OpenlrLocationReferencePoint </loc:openlrLocationReferencePoint> [1] ?
   <loc:openlrLastLocationReferencePoint> loc:OpenlrLastLocationReferencePoint
   </loc:openlrLastLocationReferencePoint> [1] ?
   <loc:openlrOffsets> loc:OpenlrOffsets </loc:openlrOffsets> [0..1] ?
   <loc:_openlrBasePointLocationExtension> com:_ExtensionType </loc:_openlrBasePointLocationExtension> [0..1]
   <loc:_openlrPointAlongLineExtension> com:_ExtensionType </loc:_openlrPointAlongLineExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrPointAlongLine">
   <xs:complexContent>
      <xs:extension base="loc:OpenlrBasePointLocation">
         <xs:sequence>
            <xs:element name="_openlrPointAlongLineExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrPointLocationReference

Super-types: None

Sub-types:

- OpenlrBasePointLocation (by extension)
  - OpenlrPointAlongLine (by extension)
  - OpenlrPoiWithAccessPoint (by extension)
- OpenlrGeoCoordinate (by extension)

Name OpenlrPointLocationReference

Abstract yes

Documentation A point location is a zero-dimensional element in a map that specifies a geometric location.

XML Instance Representation

```
<...>
   <loc:_openlrPointLocationReferenceExtension> com:_ExtensionType </loc:_openlrPointLocationReferenceExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrPointLocationReference" abstract="true">
   <xs:sequence>
      <xs:element name="_openlrPointLocationReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrPolygonCorners

Super-types:	None
Sub-types:	None

Name	OpenlrPolygonCorners
Abstract	no
Documentation	A geodetic coordinate Tuple that defines the vertices of the underlying geometrical polygon.

XML Instance Representation

```
<...>
   <loc:openlrCoordinates> loc:PointCoordinates </loc:openlrCoordinates> [3..*] ?
   <loc:_openlrPolygonCornersExtension> com:_ExtensionType </loc:_openlrPolygonCornersExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrPolygonCorners">
   <xs:sequence>
      <xs:element name="openlrCoordinates" type="loc:PointCoordinates" minOccurs="3" maxOccurs="unbounded"/>
      <xs:element name="_openlrPolygonCornersExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrPolygonLocationReference

Super-types:	OpenlrAreaLocationReference < **OpenlrPolygonLocationReference** (by extension)
Sub-types:	None

Name	OpenlrPolygonLocationReference
Abstract	no
Documentation	The OpenLR method of area definition by providing points that bound the area

XML Instance Representation

```
<...>
   <loc:_openlrAreaLocationReferenceExtension> com:_ExtensionType </loc:_openlrAreaLocationReferenceExtension> [0..1]
   <loc:openlrPolygonCorners> loc:OpenlrPolygonCorners </loc:openlrPolygonCorners> [1]
   <loc:_openlrPolygonLocationReferenceExtension> com:_ExtensionType </loc:_openlrPolygonLocationReferenceExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrPolygonLocationReference">
   <xs:complexContent>
      <xs:extension base="loc:OpenlrAreaLocationReference">
         <xs:sequence>
            <xs:element name="openlrPolygonCorners" type="loc:OpenlrPolygonCorners"/>
            <xs:element name="_openlrPolygonLocationReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrRectangle

Super-types:	None
Sub-types:	None

Name	OpenlrRectangle
Abstract	no
Documentation	Area delimited by a rectangle defined by the geodetic co-ordinates of the two ends of its diagonal from south-west to north-east (the rectangle having two sides that are parallel to lines of latitude)

XML Instance Representation

```
<...>
   <loc:openlrLowerLeft> loc:PointCoordinates </loc:openlrLowerLeft> [1] ?
   <loc:openlrUpperRight> loc:PointCoordinates </loc:openlrUpperRight> [1] ?
   <loc:_openlrRectangleExtension> com:_ExtensionType </loc:_openlrRectangleExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrRectangle">
   <xs:sequence>
      <xs:element name="openlrLowerLeft" type="loc:PointCoordinates"/>
```

```
    <xs:element name="openlrUpperRight" type="loc:PointCoordinates"/>
    <xs:element name="_openlrRectangleExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrRectangleLocationReference

Super-types:	OpenlrAreaLocationReference < **OpenlrRectangleLocationReference** (by extension)
Sub-types:	None

Name	OpenlrRectangleLocationReference
Abstract	no
Documentation	The openLR method of area definition by providing a rectangular shape defined by two geo-coordinate pairs

XML Instance Representation

```
<...>
  <loc:_openlrAreaLocationReferenceExtension> com:_ExtensionType </loc:_openlrAreaLocationReferenceExtension> [0..1]
  <loc:openlrRectangle> loc:OpenlrRectangle </loc:openlrRectangle> [1]
  <loc:_openlrRectangleLocationReferenceExtension> com:_ExtensionType
  </loc:_openlrRectangleLocationReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrRectangleLocationReference">
  <xs:complexContent>
    <xs:extension base="loc:OpenlrAreaLocationReference">
      <xs:sequence>
        <xs:element name="openlrRectangle" type="loc:OpenlrRectangle"/>
        <xs:element name="_openlrRectangleLocationReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: PercentageDistanceAlongLinearElement

Super-types:	DistanceAlongLinearElement < **PercentageDistanceAlongLinearElement** (by extension)
Sub-types:	None

Name	PercentageDistanceAlongLinearElement
Abstract	no
Documentation	Distance of a point along a linear element measured from the start node expressed as a percentage of the whole length of the linear element, where start node is relative to the element definition rather than the direction of traffic flow.

XML Instance Representation

```
<...>
  <loc:_distanceAlongLinearElementExtension> com:_ExtensionType </loc:_distanceAlongLinearElementExtension> [0..1]
  <loc:percentageDistanceAlong> com:Percentage </loc:percentageDistanceAlong> [1] ?
  <loc:_percentageDistanceAlongLinearElementExtension> com:_ExtensionType
  </loc:_percentageDistanceAlongLinearElementExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PercentageDistanceAlongLinearElement">
  <xs:complexContent>
    <xs:extension base="loc:DistanceAlongLinearElement">
      <xs:sequence>
        <xs:element name="percentageDistanceAlong" type="com:Percentage" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_percentageDistanceAlongLinearElementExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: PointAlongLinearElement

Super-types:	None
Sub-types:	None

Name	PointAlongLinearElement
Abstract	no
Documentation	A point on a linear element where the linear element is either a part of or the whole of a linear object (i.e. a road), consistent with EN ISO 19148 definitions.

XML Instance Representation

```
<...>
  <loc:administrativeAreaOfPoint> com:MultilingualString </loc:administrativeAreaOfPoint> [0..1] ?
  <loc:directionAtPoint> loc:_DirectionEnum </loc:directionAtPoint> [0..1] ?
  <loc:directionRelativeAtPoint> loc:_LinearDirectionEnum </loc:directionRelativeAtPoint> [0..1] ?
```

```
   <loc:heightGradeOfPoint> loc:_HeightGradeEnum </loc:heightGradeOfPoint> [0..1] ?
   <loc:linearElement> loc:LinearElement </loc:linearElement> [1]
   <loc:distanceAlongLinearElement> loc:DistanceAlongLinearElement </loc:distanceAlongLinearElement> [1]
   <loc:_pointAlongLinearElementExtension> com:_ExtensionType </loc:_pointAlongLinearElementExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="PointAlongLinearElement">
   <xs:sequence>
      <xs:element name="administrativeAreaOfPoint" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="directionAtPoint" type="loc:_DirectionEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="directionRelativeAtPoint" type="loc:_LinearDirectionEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="heightGradeOfPoint" type="loc:_HeightGradeEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="linearElement" type="loc:LinearElement"/>
      <xs:element name="distanceAlongLinearElement" type="loc:DistanceAlongLinearElement"/>
      <xs:element name="_pointAlongLinearElementExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: PointByCoordinates

Super-types:	None
Sub-types:	None

Name	PointByCoordinates
Abstract	no
Documentation	A single point defined only by a coordinate set with an optional bearing direction.

XML Instance Representation

```
<.../>
   <loc:bearing> com:AngleInDegrees </loc:bearing> [0..1] ?
   <loc:pointCoordinates> loc:PointCoordinates </loc:pointCoordinates> [1]
   <loc:_pointByCoordinatesExtension> com:_ExtensionType </loc:_pointByCoordinatesExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="PointByCoordinates">
   <xs:sequence>
      <xs:element name="bearing" type="com:AngleInDegrees" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pointCoordinates" type="loc:PointCoordinates"/>
      <xs:element name="_pointByCoordinatesExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: PointCoordinates

Super-types:	None
Sub-types:	None

Name	PointCoordinates
Abstract	no
Documentation	A pair of planar coordinates defining the geodetic position of a single point using the European Terrestrial Reference System 1989 (ETRS89).

XML Instance Representation

```
<.../>
   <loc:latitude> com:Float </loc:latitude> [1] ?
   <loc:longitude> com:Float </loc:longitude> [1] ?
   <loc:heightCoordinate> loc:HeightCoordinate </loc:heightCoordinate> [0..3]
   <loc:positionConfidenceEllipse> loc:PositionConfidenceEllipse </loc:positionConfidenceEllipse> [0..1]
   <loc:horizontalPositionAccuracy> loc:PositionAccuracy </loc:horizontalPositionAccuracy> [0..1] ?
   <loc:_pointCoordinatesExtension> com:_ExtensionType </loc:_pointCoordinatesExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="PointCoordinates">
   <xs:sequence>
      <xs:element name="latitude" type="com:Float" minOccurs="1" maxOccurs="1"/>
      <xs:element name="longitude" type="com:Float" minOccurs="1" maxOccurs="1"/>
      <xs:element name="heightCoordinate" type="loc:HeightCoordinate" minOccurs="0" maxOccurs="3"/>
      <xs:element name="positionConfidenceEllipse" type="loc:PositionConfidenceEllipse" minOccurs="0"/>
      <xs:element name="horizontalPositionAccuracy" type="loc:PositionAccuracy" minOccurs="0"/>
      <xs:element name="_pointCoordinatesExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: PointDestination

Super-types:	Destination < **PointDestination** (by extension)
Sub-types:	None

Name	PointDestination
Abstract	no
Documentation	The specification of the destination of a defined route or itinerary which is a point.

XML Instance Representation

```
<...>
   <loc:_destinationExtension> com:_ExtensionType </loc:_destinationExtension> [0..1]
   <loc:pointLocation> loc:PointLocation </loc:pointLocation> [1]
   <loc:_pointDestinationExtension> com:_ExtensionType </loc:_pointDestinationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PointDestination">
   <xs:complexContent>
      <xs:extension base="loc:Destination">
         <xs:sequence>
            <xs:element name="pointLocation" type="loc:PointLocation"/>
            <xs:element name="_pointDestinationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: PointLocation

Super-types:	LocationReference < Location (by extension) < NetworkLocation (by extension) < **PointLocation** (by extension)
Sub-types:	None

Name	PointLocation
Abstract	no
Documentation	Location representing a single geospatial point.

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:externalReferencing> loc:ExternalReferencing </loc:externalReferencing> [0..*]
   <loc:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [0..1] ?
   <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
   <loc:supplementaryPositionalDescription> loc:SupplementaryPositionalDescription
   </loc:supplementaryPositionalDescription> [0..1]
   <loc:destination> loc:Destination </loc:destination> [0..1]
   <loc:_networkLocationExtension> com:_ExtensionType </loc:_networkLocationExtension> [0..1]
   <loc:pointByCoordinates> loc:PointByCoordinates </loc:pointByCoordinates> [0..1]
   <loc:pointAlongLinearElement> loc:PointAlongLinearElement </loc:pointAlongLinearElement> [0..*]
   <loc:alertCPoint> loc:AlertCPoint </loc:alertCPoint> [0..*] ?
   <loc:tpegPointLocation> loc:TpegPointLocation </loc:tpegPointLocation> [0..1]
   <loc:openlrPointLocationReference> loc:OpenlrPointLocationReference </loc:openlrPointLocationReference> [0..1]
   <loc:_pointLocationExtension> com:_ExtensionType </loc:_pointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PointLocation">
   <xs:complexContent>
      <xs:extension base="loc:NetworkLocation">
         <xs:sequence>
            <xs:element name="pointByCoordinates" type="loc:PointByCoordinates" minOccurs="0"/>
            <xs:element name="pointAlongLinearElement" type="loc:PointAlongLinearElement" minOccurs="0"
            maxOccurs="unbounded"/>
            <xs:element name="alertCPoint" type="loc:AlertCPoint" minOccurs="0" maxOccurs="unbounded"/>
            <xs:element name="tpegPointLocation" type="loc:TpegPointLocation" minOccurs="0"/>
            <xs:element name="openlrPointLocationReference" type="loc:OpenlrPointLocationReference" minOccurs="0"/>
            <xs:element name="_pointLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: PositionAccuracy

Super-types:	None
Sub-types:	None

Name	PositionAccuracy
Abstract	no
Documentation	Horizontal position accuracy parameters defined according to EN 16803-1

XML Instance Representation

```
<...>
   <loc:accuracyPercentile50> com:MetresAsFloat </loc:accuracyPercentile50> [0..1] ?
   <loc:accuracyPercentile75> com:MetresAsFloat </loc:accuracyPercentile75> [0..1] ?
   <loc:accuracyPercentile95> com:MetresAsFloat </loc:accuracyPercentile95> [0..1] ?
   <loc:_positionAccuracyExtension> com:_ExtensionType </loc:_positionAccuracyExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PositionAccuracy">
   <xs:sequence>
      <xs:element name="accuracyPercentile50" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="accuracyPercentile75" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="accuracyPercentile95" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_positionAccuracyExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: PositionConfidenceEllipse

Super-types:	None
Sub-types:	None

Name	PositionConfidenceEllipse
Abstract	no
Documentation	Confidence ellipse position defined in a shape of ellipse with a predefined confidence level (e.g. 95 %). The centre of the ellipse shape corresponds to the reference position point for which the position accuracy is evaluated.

XML Instance Representation

```
<...>
   <loc:semiMajorAxisLength> com:MetresAsFloat </loc:semiMajorAxisLength> [0..1] ?
   <loc:semiMajorAxisLengthCodedError> loc:_PositionConfidenceCodedErrorEnum </loc:semiMajorAxisLengthCodedError>
   [0..1] ?
   <loc:semiMinorAxisLength> com:MetresAsFloat </loc:semiMinorAxisLength> [0..1] ?
   <loc:semiMinorAxisLengthCodedError> loc:_PositionConfidenceCodedErrorEnum </loc:semiMinorAxisLengthCodedError>
   [0..1] ?
   <loc:semiMajorAxisOrientation> com:AngleInDegrees </loc:semiMajorAxisOrientation> [0..1] ?
   <loc:semiMajorAxisOrientationError> com:Boolean </loc:semiMajorAxisOrientationError> [0..1] ?
   <loc:_positionConfidenceEllipseExtension> com:_ExtensionType </loc:_positionConfidenceEllipseExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PositionConfidenceEllipse">
   <xs:sequence>
      <xs:element name="semiMajorAxisLength" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="semiMajorAxisLengthCodedError" type="loc:_PositionConfidenceCodedErrorEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="semiMinorAxisLength" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="semiMinorAxisLengthCodedError" type="loc:_PositionConfidenceCodedErrorEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="semiMajorAxisOrientation" type="com:AngleInDegrees" minOccurs="0" maxOccurs="1"/>
      <xs:element name="semiMajorAxisOrientationError" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_positionConfidenceEllipseExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: Referent

Super-types:	None
Sub-types:	None

Name	Referent
Abstract	no
Documentation	A referent on a linear object that has a known location such as a node, a reference marker (e.g. a marker-post), an intersection etc.

XML Instance Representation

```
<...>
   <loc:referentIdentifier> com:String </loc:referentIdentifier> [1] ?
   <loc:referentName> com:String </loc:referentName> [0..1] ?
   <loc:referentType> loc:_ReferentTypeEnum </loc:referentType> [1] ?
   <loc:referentDescription> com:MultilingualString </loc:referentDescription> [0..1] ?
   <loc:pointCoordinates> loc:PointCoordinates </loc:pointCoordinates> [0..1]
   <loc:_referentExtension> com:_ExtensionType </loc:_referentExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Referent">
   <xs:sequence>
      <xs:element name="referentIdentifier" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="referentName" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="referentType" type="loc:_ReferentTypeEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="referentDescription" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pointCoordinates" type="loc:PointCoordinates" minOccurs="0"/>
      <xs:element name="_referentExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: RoadInformation

Super-types:	None

Sub-types:	None

Name	RoadInformation
Abstract	no
Documentation	Information on a road

XML Instance Representation

```
<...>
   <loc:roadDestination> com:String </loc:roadDestination> [0..1] ?
   <loc:roadName> com:String </loc:roadName> [0..1] ?
   <loc:roadNumber> com:String </loc:roadNumber> [0..1] ?
   <loc:_roadInformationExtension> com:_ExtensionType </loc:_roadInformationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RoadInformation">
   <xs:sequence>
      <xs:element name="roadDestination" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="roadName" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="roadNumber" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_roadInformationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: SingleRoadLinearLocation

Super-types:	LocationReference < Location (by extension) < NetworkLocation (by extension) < LinearLocation (by extension) < **SingleRoadLinearLocation** (by extension)
Sub-types:	None

Name	SingleRoadLinearLocation
Abstract	no
Documentation	Location representing a linear section along a single road with optional directionality defined between two points on the same road. No matter the kind of linear reference it uses, the constraint of using only a single road must be preserved.

XML Instance Representation

```
<...>
   <loc:_locationReferenceExtension> loc:_LocationReferenceExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:externalReferencing> loc:ExternalReferencing </loc:externalReferencing> [0..*]
   <loc:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [0..1] ?
   <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
   <loc:supplementaryPositionalDescription> loc:SupplementaryPositionalDescription
   </loc:supplementaryPositionalDescription> [0..1]
   <loc:destination> loc:Destination </loc:destination> [0..1]
   <loc:_networkLocationExtension> com:_ExtensionType </loc:_networkLocationExtension> [0..1]
   <loc:openlrLinear> loc:OpenlrLinear </loc:openlrLinear> [0..1]
   <loc:gmlLineString> loc:GmlLineString </loc:gmlLineString> [0..1]
   <loc:secondarySupplementaryDescription> loc:SupplementaryPositionalDescription
   </loc:secondarySupplementaryDescription> [0..1] ?
   <loc:_linearLocationExtension> com:_ExtensionType </loc:_linearLocationExtension> [0..1]
   <loc:tpegLinearLocation> loc:TpegLinearLocation </loc:tpegLinearLocation> [0..1]
   <loc:alertCLinear> loc:AlertCLinear </loc:alertCLinear> [0..*] ?
   <loc:linearWithinLinearElement> loc:LinearWithinLinearElement </loc:linearWithinLinearElement> [0..*]
   <loc:_singleRoadLinearLocationExtension> com:_ExtensionType </loc:_singleRoadLinearLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SingleRoadLinearLocation">
   <xs:complexContent>
      <xs:extension base="loc:LinearLocation">
         <xs:sequence>
            <xs:element name="tpegLinearLocation" type="loc:TpegLinearLocation" minOccurs="0"/>
            <xs:element name="alertCLinear" type="loc:AlertCLinear" minOccurs="0" maxOccurs="unbounded"/>
            <xs:element name="linearWithinLinearElement" type="loc:LinearWithinLinearElement" minOccurs="0"
            maxOccurs="unbounded"/>
            <xs:element name="_singleRoadLinearLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: SupplementaryPositionalDescription

Super-types:	None
Sub-types:	None

Name	SupplementaryPositionalDescription
Abstract	no
Documentation	A collection of supplementary positional information which improves the precision of the location.

XML Instance Representation

```
<...
 locationPrecision="com:MetresAsNonNegativeInteger [0..1] ?">
```

```
<loc:directionPurpose> loc:_DirectionPurposeEnum </loc:directionPurpose> [0..1] ?
<loc:geographicDescriptor> loc:_GeographicCharacteristicEnum </loc:geographicDescriptor> [0..1] ?
<loc:infrastructureDescriptor> loc:_InfrastructureDescriptorEnum </loc:infrastructureDescriptor> [0..1] ?
<loc:lengthAffected> com:MetresAsFloat </loc:lengthAffected> [0..1] ?
<loc:locationDescription> com:MultilingualString </loc:locationDescription> [0..1] ?
<loc:positionOnCarriageway> loc:_RelativePositionOnCarriagewayEnum </loc:positionOnCarriageway> [0..1] ?
<loc:sequentialRampNumber> com:NonNegativeInteger </loc:sequentialRampNumber> [0..1] ?
<loc:carriageway> loc:Carriageway </loc:carriageway> [0..*]
<loc:namedArea> loc:NamedArea </loc:namedArea> [0..1]
<loc:roadInformation> loc:RoadInformation </loc:roadInformation> [0..*] ?
<loc:_supplementaryPositionalDescriptionExtension> loc:_SupplementaryPositionalDescriptionExtensionType
</loc:_supplementaryPositionalDescriptionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SupplementaryPositionalDescription">
  <xs:sequence>
    <xs:element name="directionPurpose" type="loc:_DirectionPurposeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="geographicDescriptor" type="loc:_GeographicCharacteristicEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="infrastructureDescriptor" type="loc:_InfrastructureDescriptorEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="lengthAffected" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="locationDescription" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="positionOnCarriageway" type="loc:_RelativePositionOnCarriagewayEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="sequentialRampNumber" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="carriageway" type="loc:Carriageway" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="namedArea" type="loc:NamedArea" minOccurs="0"/>
    <xs:element name="roadInformation" type="loc:RoadInformation" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_supplementaryPositionalDescriptionExtension"
    type="loc:_SupplementaryPositionalDescriptionExtensionType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="locationPrecision" type="com:MetresAsNonNegativeInteger" use="optional"/>
</xs:complexType>
```

top

Complex Type: TpegAreaDescriptor

Super-types:	TpegDescriptor < **TpegAreaDescriptor** (by extension)
Sub-types:	None

Name	TpegAreaDescriptor
Abstract	no
Documentation	A descriptor for describing an area location.

XML Instance Representation

```
<...>
  <loc:descriptor> com:MultilingualString </loc:descriptor> [1] ?
  <loc:_tpegDescriptorExtension> com:_ExtensionType </loc:_tpegDescriptorExtension> [0..1]
  <loc:tpegAreaDescriptorType> loc:_TpegLoc03AreaDescriptorSubtypeEnum </loc:tpegAreaDescriptorType> [1] ?
  <loc:_tpegAreaDescriptorExtension> com:_ExtensionType </loc:_tpegAreaDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegAreaDescriptor">
  <xs:complexContent>
    <xs:extension base="loc:TpegDescriptor">
      <xs:sequence>
        <xs:element name="tpegAreaDescriptorType" type="loc:_TpegLoc03AreaDescriptorSubtypeEnum" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="_tpegAreaDescriptorExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TpegAreaLocation

Super-types:	None
Sub-types:	• TpegGeometricArea (by extension) • TpegNamedOnlyArea (by extension)

Name	TpegAreaLocation
Abstract	yes
Documentation	A geographic or geometric area defined by a TPEG-Loc structure which may include height information for additional geospatial discrimination.

XML Instance Representation

```
<...>
  <loc:tpegAreaLocationType> loc:_TpegLoc01AreaLocationSubtypeEnum </loc:tpegAreaLocationType> [1] ?
  <loc:tpegHeight> loc:TpegHeight </loc:tpegHeight> [0..1]
  <loc:_tpegAreaLocationExtension> com:_ExtensionType </loc:_tpegAreaLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegAreaLocation" abstract="true">
```

```
  <xs:sequence>
    <xs:element name="tpegAreaLocationType" type="loc:_TpegLoc01AreaLocationSubtypeEnum" minOccurs="1"
    maxOccurs="1"/>
    <xs:element name="tpegHeight" type="loc:TpegHeight" minOccurs="0"/>
    <xs:element name="_tpegAreaLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: TpegDescriptor

Super-types:	None

Sub-types:	• TpegAreaDescriptor (by extension)
	• TpegPointDescriptor (by extension)
	  ◦ TpegIlcPointDescriptor (by extension)
	  ◦ TpegJunctionPointDescriptor (by extension)
	  ◦ TpegOtherPointDescriptor (by extension)

Name	TpegDescriptor
Abstract	yes
Documentation	A collection of information providing descriptive references to locations using the TPEG-Loc location referencing approach.

XML Instance Representation

```
<...>
  <loc:descriptor> com:MultilingualString </loc:descriptor> [1] ?
  <loc:_tpegDescriptorExtension> com:_ExtensionType </loc:_tpegDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegDescriptor" abstract="true">
  <xs:sequence>
    <xs:element name="descriptor" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_tpegDescriptorExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: TpegFramedPoint

Super-types:	TpegPointLocation < **TpegFramedPoint** (by extension)
Sub-types:	None

Name	TpegFramedPoint
Abstract	no
Documentation	A point on the road network which is framed between two other points on the same road.

XML Instance Representation

```
<...>
  <loc:tpegDirection> loc:_DirectionEnum </loc:tpegDirection> [1] ?
  <loc:_tpegPointLocationExtension> com:_ExtensionType </loc:_tpegPointLocationExtension> [0..1]
  <loc:tpegFramedPointLocationType> loc:_TpegLoc01FramedPointLocationSubtypeEnum </loc:tpegFramedPointLocationType>
  [1] ?
  <loc:framedPoint> loc:TpegNonJunctionPoint </loc:framedPoint> [1] ?
  <loc:to> loc:TpegPoint </loc:to> [1] ?
  <loc:from> loc:TpegPoint </loc:from> [1] ?
  <loc:_tpegFramedPointExtension> com:_ExtensionType </loc:_tpegFramedPointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegFramedPoint">
  <xs:complexContent>
    <xs:extension base="loc:TpegPointLocation">
      <xs:sequence>
        <xs:element name="tpegFramedPointLocationType" type="loc:_TpegLoc01FramedPointLocationSubtypeEnum"
        minOccurs="1" maxOccurs="1"/>
        <xs:element name="framedPoint" type="loc:TpegNonJunctionPoint"/>
        <xs:element name="to" type="loc:TpegPoint"/>
        <xs:element name="from" type="loc:TpegPoint"/>
        <xs:element name="_tpegFramedPointExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TpegGeometricArea

Super-types:	TpegAreaLocation < **TpegGeometricArea** (by extension)
Sub-types:	None

Name	TpegGeometricArea
Abstract	no

Documentation A geometric area defined by a centre point and a radius.

XML Instance Representation

```
<...>
   <loc:tpegAreaLocationType> loc:_TpegLoc01AreaLocationSubtypeEnum </loc:tpegAreaLocationType> [1] ?
   <loc:tpegHeight> loc:TpegHeight </loc:tpegHeight> [0..1]
   <loc:_tpegAreaLocationExtension> com:_ExtensionType </loc:_tpegAreaLocationExtension> [0..1]
   <loc:radius> com:MetresAsNonNegativeInteger </loc:radius> [1] ?
   <loc:centrePoint> loc:PointCoordinates </loc:centrePoint> [1] ?
   <loc:name> loc:TpegAreaDescriptor </loc:name> [0..1] ?
   <loc:_tpegGeometricAreaExtension> com:_ExtensionType </loc:_tpegGeometricAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegGeometricArea">
   <xs:complexContent>
      <xs:extension base="loc:TpegAreaLocation">
         <xs:sequence>
            <xs:element name="radius" type="com:MetresAsNonNegativeInteger" minOccurs="1" maxOccurs="1"/>
            <xs:element name="centrePoint" type="loc:PointCoordinates"/>
            <xs:element name="name" type="loc:TpegAreaDescriptor" minOccurs="0"/>
            <xs:element name="_tpegGeometricAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TpegHeight

Super-types:	None
Sub-types:	None

Name TpegHeight
Abstract no
Documentation Height information which provides additional discrimination for the applicable area.

XML Instance Representation

```
<...>
   <loc:height> com:MetresAsFloat </loc:height> [0..1] ?
   <loc:heightType> loc:_TpegLoc04HeightTypeEnum </loc:heightType> [1] ?
   <loc:_tpegHeightExtension> com:_ExtensionType </loc:_tpegHeightExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegHeight">
   <xs:sequence>
      <xs:element name="height" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="heightType" type="loc:_TpegLoc04HeightTypeEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_tpegHeightExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: TpegIlcPointDescriptor

Super-types:	TpegDescriptor < TpegPointDescriptor (by extension) < **TpegIlcPointDescriptor** (by extension)
Sub-types:	None

Name TpegIlcPointDescriptor
Abstract no
Documentation A descriptor for describing a junction by defining the intersecting roads.

XML Instance Representation

```
<...>
   <loc:descriptor> com:MultilingualString </loc:descriptor> [1] ?
   <loc:_tpegDescriptorExtension> com:_ExtensionType </loc:_tpegDescriptorExtension> [0..1]
   <loc:_tpegPointDescriptorExtension> com:_ExtensionType </loc:_tpegPointDescriptorExtension> [0..1]
   <loc:tpegIlcPointDescriptorType> loc:_TpegLoc03IlcPointDescriptorSubtypeEnum </loc:tpegIlcPointDescriptorType> [1]
   ?
   <loc:_tpegIlcPointDescriptorExtension> com:_ExtensionType </loc:_tpegIlcPointDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegIlcPointDescriptor">
   <xs:complexContent>
      <xs:extension base="loc:TpegPointDescriptor">
         <xs:sequence>
            <xs:element name="tpegIlcPointDescriptorType" type="loc:_TpegLoc03IlcPointDescriptorSubtypeEnum"
            minOccurs="1" maxOccurs="1"/>
            <xs:element name="_tpegIlcPointDescriptorExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TpegJunction

Super-types:	TpegPoint < **TpegJunction** (by extension)
Sub-types:	None

Name	TpegJunction
Abstract	no
Documentation	A point on the road network which is a road junction point.

XML Instance Representation

```
<...>
   <loc:_tpegPointExtension> com:_ExtensionType </loc:_tpegPointExtension> [0..1]
   <loc:pointCoordinates> loc:PointCoordinates </loc:pointCoordinates> [1]
   <loc:name> loc:TpegJunctionPointDescriptor </loc:name> [0..1] ?
   <loc:ilc> loc:TpegIlcPointDescriptor </loc:ilc> [1..3] ?
   <loc:otherName> loc:TpegOtherPointDescriptor </loc:otherName> [0..*] ?
   <loc:_tpegJunctionExtension> com:_ExtensionType </loc:_tpegJunctionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegJunction">
   <xs:complexContent>
      <xs:extension base="loc:TpegPoint">
         <xs:sequence>
            <xs:element name="pointCoordinates" type="loc:PointCoordinates"/>
            <xs:element name="name" type="loc:TpegJunctionPointDescriptor" minOccurs="0"/>
            <xs:element name="ilc" type="loc:TpegIlcPointDescriptor" maxOccurs="3"/>
            <xs:element name="otherName" type="loc:TpegOtherPointDescriptor" minOccurs="0" maxOccurs="unbounded"/>
            <xs:element name="_tpegJunctionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TpegJunctionPointDescriptor

Super-types:	TpegDescriptor < TpegPointDescriptor (by extension) < **TpegJunctionPointDescriptor** (by extension)
Sub-types:	None

Name	TpegJunctionPointDescriptor
Abstract	no
Documentation	A descriptor for describing a point at a junction on a road network.

XML Instance Representation

```
<...>
   <loc:descriptor> com:MultilingualString </loc:descriptor> [1] ?
   <loc:_tpegDescriptorExtension> com:_ExtensionType </loc:_tpegDescriptorExtension> [0..1]
   <loc:_tpegPointDescriptorExtension> com:_ExtensionType </loc:_tpegPointDescriptorExtension> [0..1]
   <loc:tpegJunctionPointDescriptorType> loc:_TpegLoc03JunctionPointDescriptorSubtypeEnum
   </loc:tpegJunctionPointDescriptorType> [1] ?
   <loc:_tpegJunctionPointDescriptorExtension> com:_ExtensionType </loc:_tpegJunctionPointDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegJunctionPointDescriptor">
   <xs:complexContent>
      <xs:extension base="loc:TpegPointDescriptor">
         <xs:sequence>
            <xs:element name="tpegJunctionPointDescriptorType" type="loc:_TpegLoc03JunctionPointDescriptorSubtypeEnum"
            minOccurs="1" maxOccurs="1"/>
            <xs:element name="_tpegJunctionPointDescriptorExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TpegLinearLocation

Super-types:	None
Sub-types:	None

Name	TpegLinearLocation
Abstract	no
Documentation	A linear section along a single road defined between two points on the same road by a TPEG-Loc structure.

XML Instance Representation

```
<...>
   <loc:tpegDirection> loc:_DirectionEnum </loc:tpegDirection> [1] ?
   <loc:tpegLinearLocationType> loc:_TpegLoc01LinearLocationSubtypeEnum </loc:tpegLinearLocationType> [1] ?
   <loc:to> loc:TpegPoint </loc:to> [1] ?
   <loc:from> loc:TpegPoint </loc:from> [1] ?
   <loc:_tpegLinearLocationExtension> com:_ExtensionType </loc:_tpegLinearLocationExtension> [0..1]
```

```
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegLinearLocation">
   <xs:sequence>
      <xs:element name="tpegDirection" type="loc:_DirectionEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="tpegLinearLocationType" type="loc:_TpegLoc01LinearLocationSubtypeEnum" minOccurs="1"
      maxOccurs="1"/>
      <xs:element name="to" type="loc:TpegPoint"/>
      <xs:element name="from" type="loc:TpegPoint"/>
      <xs:element name="_tpegLinearLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: TpegNamedOnlyArea

Super-types:	TpegAreaLocation < **TpegNamedOnlyArea** (by extension)
Sub-types:	None

Name	TpegNamedOnlyArea
Abstract	no
Documentation	An area defined by a well-known name.

XML Instance Representation

```
<...>
   <loc:tpegAreaLocationType> loc:_TpegLoc01AreaLocationSubtypeEnum </loc:tpegAreaLocationType> [1] ?
   <loc:tpegHeight> loc:TpegHeight </loc:tpegHeight> [0..1]
   <loc:_tpegAreaLocationExtension> com:_ExtensionType </loc:_tpegAreaLocationExtension> [0..1]
   <loc:name> loc:TpegAreaDescriptor </loc:name> [1..*] ?
   <loc:_tpegNamedOnlyAreaExtension> com:_ExtensionType </loc:_tpegNamedOnlyAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegNamedOnlyArea">
   <xs:complexContent>
      <xs:extension base="loc:TpegAreaLocation">
         <xs:sequence>
            <xs:element name="name" type="loc:TpegAreaDescriptor" maxOccurs="unbounded"/>
            <xs:element name="_tpegNamedOnlyAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TpegNonJunctionPoint

Super-types:	TpegPoint < **TpegNonJunctionPoint** (by extension)
Sub-types:	None

Name	TpegNonJunctionPoint
Abstract	no
Documentation	A point on the road network which is not a road junction point.

XML Instance Representation

```
<...>
   <loc:_tpegPointExtension> com:_ExtensionType </loc:_tpegPointExtension> [0..1]
   <loc:pointCoordinates> loc:PointCoordinates </loc:pointCoordinates> [1]
   <loc:name> loc:TpegOtherPointDescriptor </loc:name> [1..*] ?
   <loc:_tpegNonJunctionPointExtension> com:_ExtensionType </loc:_tpegNonJunctionPointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegNonJunctionPoint">
   <xs:complexContent>
      <xs:extension base="loc:TpegPoint">
         <xs:sequence>
            <xs:element name="pointCoordinates" type="loc:PointCoordinates"/>
            <xs:element name="name" type="loc:TpegOtherPointDescriptor" maxOccurs="unbounded"/>
            <xs:element name="_tpegNonJunctionPointExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TpegOtherPointDescriptor

Super-types:	TpegDescriptor < TpegPointDescriptor (by extension) < **TpegOtherPointDescriptor** (by extension)
Sub-types:	None

Name	TpegOtherPointDescriptor
Abstract	no

Documentation General descriptor for describing a point.

XML Instance Representation

```
<...>
   <loc:descriptor> com:MultilingualString </loc:descriptor> [1] ?
   <loc:_tpegDescriptorExtension> com:_ExtensionType </loc:_tpegDescriptorExtension> [0..1]
   <loc:_tpegPointDescriptorExtension> com:_ExtensionType </loc:_tpegPointDescriptorExtension> [0..1]
   <loc:tpegOtherPointDescriptorType> loc:_TpegLoc03OtherPointDescriptorSubtypeEnum
   </loc:tpegOtherPointDescriptorType> [1] ?
   <loc:_tpegOtherPointDescriptorExtension> com:_ExtensionType </loc:_tpegOtherPointDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegOtherPointDescriptor">
   <xs:complexContent>
      <xs:extension base="loc:TpegPointDescriptor">
         <xs:sequence>
            <xs:element name="tpegOtherPointDescriptorType" type="loc:_TpegLoc03OtherPointDescriptorSubtypeEnum"
            minOccurs="1" maxOccurs="1"/>
            <xs:element name="_tpegOtherPointDescriptorExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TpegPoint

Super-types: None

Sub-types:

- TpegJunction (by extension)
- TpegNonJunctionPoint (by extension)

Name TpegPoint

Abstract yes

Documentation A point on the road network which is either a junction point or a non junction point.

XML Instance Representation

```
<...>
   <loc:_tpegPointExtension> com:_ExtensionType </loc:_tpegPointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegPoint" abstract="true">
   <xs:sequence>
      <xs:element name="_tpegPointExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: TpegPointDescriptor

Super-types: TpegDescriptor < **TpegPointDescriptor** (by extension)

Sub-types:

- TpegIlcPointDescriptor (by extension)
- TpegJunctionPointDescriptor (by extension)
- TpegOtherPointDescriptor (by extension)

Name TpegPointDescriptor

Abstract yes

Documentation A descriptor for describing a point location.

XML Instance Representation

```
<...>
   <loc:descriptor> com:MultilingualString </loc:descriptor> [1] ?
   <loc:_tpegDescriptorExtension> com:_ExtensionType </loc:_tpegDescriptorExtension> [0..1]
   <loc:_tpegPointDescriptorExtension> com:_ExtensionType </loc:_tpegPointDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegPointDescriptor" abstract="true">
   <xs:complexContent>
      <xs:extension base="loc:TpegDescriptor">
         <xs:sequence>
            <xs:element name="_tpegPointDescriptorExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TpegPointLocation

Super-types: None

Sub-types:	• TpegFramedPoint (by extension) • TpegSimplePoint (by extension)

Name	TpegPointLocation
Abstract	yes
Documentation	A single point on the road network defined by a TPEG-Loc structure and which has an associated direction of traffic flow.

XML Instance Representation

```
<...>
   <loc:tpegDirection> loc:_DirectionEnum </loc:tpegDirection> [1] ?
   <loc:_tpegPointLocationExtension> com:_ExtensionType </loc:_tpegPointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegPointLocation" abstract="true">
   <xs:sequence>
      <xs:element name="tpegDirection" type="loc:_DirectionEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_tpegPointLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: TpegSimplePoint

Super-types:	TpegPointLocation < **TpegSimplePoint** (by extension)
Sub-types:	None

Name	TpegSimplePoint
Abstract	no
Documentation	A point on the road network which is not bounded by any other points on the road network.

XML Instance Representation

```
<...>
   <loc:tpegDirection> loc:_DirectionEnum </loc:tpegDirection> [1] ?
   <loc:_tpegPointLocationExtension> com:_ExtensionType </loc:_tpegPointLocationExtension> [0..1]
   <loc:tpegSimplePointLocationType> loc:_TpegLoc01SimplePointLocationSubtypeEnum </loc:tpegSimplePointLocationType>
   [1] ?
   <loc:point> loc:TpegPoint </loc:point> [1] ?
   <loc:_tpegSimplePointExtension> com:_ExtensionType </loc:_tpegSimplePointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegSimplePoint">
   <xs:complexContent>
      <xs:extension base="loc:TpegPointLocation">
         <xs:sequence>
            <xs:element name="tpegSimplePointLocationType" type="loc:_TpegLoc01SimplePointLocationSubtypeEnum"
            minOccurs="1" maxOccurs="1"/>
            <xs:element name="point" type="loc:TpegPoint"/>
            <xs:element name="_tpegSimplePointExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _AlertCDirectionEnum

Super-types:	xs:string < AlertCDirectionEnum (by restriction) < **_AlertCDirectionEnum** (by extension)
Sub-types:	None

Name	_AlertCDirectionEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:AlertCDirectionEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_AlertCDirectionEnum">
   <xs:simpleContent>
      <xs:extension base="loc:AlertCDirectionEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _AltitudeAccuracyEnum

Super-types:	xs:string < AltitudeAccuracyEnum (by restriction) < **_AltitudeAccuracyEnum** (by extension)
Sub-types:	None

Name	_AltitudeAccuracyEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:AltitudeAccuracyEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_AltitudeAccuracyEnum">
   <xs:simpleContent>
      <xs:extension base="loc:AltitudeAccuracyEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _AreaPlacesEnum

Super-types:	xs:string < AreaPlacesEnum (by restriction) < **_AreaPlacesEnum** (by extension)
Sub-types:	None

Name	_AreaPlacesEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:AreaPlacesEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_AreaPlacesEnum">
   <xs:simpleContent>
      <xs:extension base="loc:AreaPlacesEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _CarriagewayEnum

Super-types:	xs:string < CarriagewayEnum (by restriction) < **_CarriagewayEnum** (by extension)
Sub-types:	None

Name	_CarriagewayEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:CarriagewayEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_CarriagewayEnum">
   <xs:simpleContent>
      <xs:extension base="loc:CarriagewayEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DirectionEnum

Super-types:	xs:string < DirectionEnum (by restriction) < **_DirectionEnum** (by extension)
Sub-types:	None

Name	_DirectionEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
```

```
  loc:DirectionEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_DirectionEnum">
  <xs:simpleContent>
    <xs:extension base="loc:DirectionEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DirectionPurposeEnum

Super-types:	xs:string < DirectionPurposeEnum (by restriction) < **_DirectionPurposeEnum** (by extension)
Sub-types:	None

Name	_DirectionPurposeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:DirectionPurposeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_DirectionPurposeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:DirectionPurposeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _GeographicCharacteristicEnum

Super-types:	xs:string < GeographicCharacteristicEnum (by restriction) < **_GeographicCharacteristicEnum** (by extension)
Sub-types:	None

Name	_GeographicCharacteristicEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:GeographicCharacteristicEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_GeographicCharacteristicEnum">
  <xs:simpleContent>
    <xs:extension base="loc:GeographicCharacteristicEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _HeightGradeEnum

Super-types:	xs:string < HeightGradeEnum (by restriction) < **_HeightGradeEnum** (by extension)
Sub-types:	None

Name	_HeightGradeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:HeightGradeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_HeightGradeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:HeightGradeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _HeightTypeEnum

Super-types:	xs:string < HeightTypeEnum (by restriction) < **_HeightTypeEnum** (by extension)
Sub-types:	None

Name _HeightTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:HeightTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_HeightTypeEnum">
   <xs:simpleContent>
      <xs:extension base="loc:HeightTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _InfrastructureDescriptorEnum

Super-types:	xs:string < InfrastructureDescriptorEnum (by restriction) < **_InfrastructureDescriptorEnum** (by extension)
Sub-types:	None

Name _InfrastructureDescriptorEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:InfrastructureDescriptorEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_InfrastructureDescriptorEnum">
   <xs:simpleContent>
      <xs:extension base="loc:InfrastructureDescriptorEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _IntermediatePointOnLinearElement

Super-types:	None
Sub-types:	None

Name _IntermediatePointOnLinearElement

Abstract no

XML Instance Representation

```
<...
 index="xs:int [1]">
   <loc:referent> loc:Referent </loc:referent> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_IntermediatePointOnLinearElement">
   <xs:sequence>
      <xs:element name="referent" type="loc:Referent" minOccurs="1" maxOccurs="1"/>
   </xs:sequence>
   <xs:attribute name="index" type="xs:int" use="required"/>
</xs:complexType>
```

top

Complex Type: _LaneEnum

Super-types:	xs:string < LaneEnum (by restriction) < **_LaneEnum** (by extension)
Sub-types:	None

Name _LaneEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:LaneEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_LaneEnum">
  <xs:simpleContent>
    <xs:extension base="loc:LaneEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _LinearDirectionEnum

Super-types:	xs:string < LinearDirectionEnum (by restriction) < **_LinearDirectionEnum** (by extension)
Sub-types:	None

Name _LinearDirectionEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:LinearDirectionEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_LinearDirectionEnum">
  <xs:simpleContent>
    <xs:extension base="loc:LinearDirectionEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _LinearElementNatureEnum

Super-types:	xs:string < LinearElementNatureEnum (by restriction) < **_LinearElementNatureEnum** (by extension)
Sub-types:	None

Name _LinearElementNatureEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:LinearElementNatureEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_LinearElementNatureEnum">
  <xs:simpleContent>
    <xs:extension base="loc:LinearElementNatureEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _LocationContainedInItinerary

Super-types:	None
Sub-types:	None

Name _LocationContainedInItinerary

Abstract no

XML Instance Representation

```
<...
 index="xs:int [1]">
  <loc:location> loc:Location </loc:location> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_LocationContainedInItinerary">
```

```
  <xs:sequence>
    <xs:element name="location" type="loc:Location" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="index" type="xs:int" use="required"/>
</xs:complexType>
```

top

Complex Type: _LocationReferenceExtensionType

Super-types:	None
Sub-types:	None

Name _LocationReferenceExtensionType

Abstract no

XML Instance Representation

```
<...>
  <loc:facilityLocation> locx:FacilityLocation </loc:facilityLocation> [0..1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_LocationReferenceExtensionType">
  <xs:sequence>
    <xs:element name="facilityLocation" type="locx:FacilityLocation" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: _NamedAreaExtensionType

Super-types:	None
Sub-types:	None

Name _NamedAreaExtensionType

Abstract no

XML Instance Representation

```
<...>
  <loc:namedAreaExtended> locx:NamedAreaExtended </loc:namedAreaExtended> [0..1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_NamedAreaExtensionType">
  <xs:sequence>
    <xs:element name="namedAreaExtended" type="locx:NamedAreaExtended" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: _NamedAreaTypeEnum

Super-types:	xs:string < NamedAreaTypeEnum (by restriction) < **_NamedAreaTypeEnum** (by extension)
Sub-types:	None

Name _NamedAreaTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:NamedAreaTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_NamedAreaTypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:NamedAreaTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _NutsCodeTypeEnum

Super-types:	xs:string < NutsCodeTypeEnum (by restriction) < **_NutsCodeTypeEnum** (by extension)

Sub-types:	None

Name _NutsCodeTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:NutsCodeTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_NutsCodeTypeEnum">
   <xs:simpleContent>
      <xs:extension base="loc:NutsCodeTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _OpenlrFormOfWayEnum

Super-types:	xs:string < OpenlrFormOfWayEnum (by restriction) < **_OpenlrFormOfWayEnum** (by extension)
Sub-types:	None

Name _OpenlrFormOfWayEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:OpenlrFormOfWayEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_OpenlrFormOfWayEnum">
   <xs:simpleContent>
      <xs:extension base="loc:OpenlrFormOfWayEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _OpenlrFunctionalRoadClassEnum

Super-types:	xs:string < OpenlrFunctionalRoadClassEnum (by restriction) < **_OpenlrFunctionalRoadClassEnum** (by extension)
Sub-types:	None

Name _OpenlrFunctionalRoadClassEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:OpenlrFunctionalRoadClassEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_OpenlrFunctionalRoadClassEnum">
   <xs:simpleContent>
      <xs:extension base="loc:OpenlrFunctionalRoadClassEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _OpenlrOrientationEnum

Super-types:	xs:string < OpenlrOrientationEnum (by restriction) < **_OpenlrOrientationEnum** (by extension)
Sub-types:	None

Name _OpenlrOrientationEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:OpenlrOrientationEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_OpenlrOrientationEnum">
  <xs:simpleContent>
    <xs:extension base="loc:OpenlrOrientationEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _OpenlrSideOfRoadEnum

Super-types:	xs:string < OpenlrSideOfRoadEnum (by restriction) < **_OpenlrSideOfRoadEnum** (by extension)
Sub-types:	None

Name	_OpenlrSideOfRoadEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:OpenlrSideOfRoadEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_OpenlrSideOfRoadEnum">
  <xs:simpleContent>
    <xs:extension base="loc:OpenlrSideOfRoadEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _PositionConfidenceCodedErrorEnum

Super-types:	xs:string < PositionConfidenceCodedErrorEnum (by restriction) < **_PositionConfidenceCodedErrorEnum** (by extension)
Sub-types:	None

Name	_PositionConfidenceCodedErrorEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:PositionConfidenceCodedErrorEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_PositionConfidenceCodedErrorEnum">
  <xs:simpleContent>
    <xs:extension base="loc:PositionConfidenceCodedErrorEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _PredefinedItineraryVersionedReference

Super-types:	com:VersionedReference < **_PredefinedItineraryVersionedReference** (by extension)
Sub-types:	None

Name	_PredefinedItineraryVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="loc:PredefinedItinerary [1]">
  <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
  missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_PredefinedItineraryVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="loc:PredefinedItinerary"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _PredefinedLocationGroupVersionedReference

Super-types:	com:VersionedReference < **_PredefinedLocationGroupVersionedReference** (by extension)
Sub-types:	None

Name	_PredefinedLocationGroupVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="loc:PredefinedLocationGroup [1]">
   <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
   missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_PredefinedLocationGroupVersionedReference">
   <xs:complexContent>
      <xs:extension base="com:VersionedReference">
         <xs:attribute name="targetClass" type="xs:string" use="required" fixed="loc:PredefinedLocationGroup"/>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _PredefinedLocationVersionedReference

Super-types:	com:VersionedReference < **_PredefinedLocationVersionedReference** (by extension)
Sub-types:	None

Name	_PredefinedLocationVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="loc:PredefinedLocation [1]">
   <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
   missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_PredefinedLocationVersionedReference">
   <xs:complexContent>
      <xs:extension base="com:VersionedReference">
         <xs:attribute name="targetClass" type="xs:string" use="required" fixed="loc:PredefinedLocation"/>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _ReferentTypeEnum

Super-types:	xs:string < ReferentTypeEnum (by restriction) < **_ReferentTypeEnum** (by extension)
Sub-types:	None

Name	_ReferentTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:ReferentTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_ReferentTypeEnum">
   <xs:simpleContent>
      <xs:extension base="loc:ReferentTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _RelativePositionOnCarriagewayEnum

Super-types:	xs:string < RelativePositionOnCarriagewayEnum (by restriction) < **_RelativePositionOnCarriagewayEnum** (by extension)
Sub-types:	None

Name	_RelativePositionOnCarriagewayEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:RelativePositionOnCarriagewayEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_RelativePositionOnCarriagewayEnum">
  <xs:simpleContent>
    <xs:extension base="loc:RelativePositionOnCarriagewayEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _SubdivisionTypeEnum

Super-types:	xs:string < SubdivisionTypeEnum (by restriction) < **_SubdivisionTypeEnum** (by extension)
Sub-types:	None

Name	_SubdivisionTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:SubdivisionTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_SubdivisionTypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:SubdivisionTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _SupplementaryPositionalDescriptionExtensionType

Super-types:	None
Sub-types:	None

Name	_SupplementaryPositionalDescriptionExtensionType
Abstract	no

XML Instance Representation

```
<...>
  <loc:supplementaryPositionalDescriptionExtended> locx:SupplementaryPositionalDescriptionExtended
  </loc:supplementaryPositionalDescriptionExtended> [0..1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_SupplementaryPositionalDescriptionExtensionType">
  <xs:sequence>
    <xs:element name="supplementaryPositionalDescriptionExtended"
    type="locx:SupplementaryPositionalDescriptionExtended" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: _TpegLoc01AreaLocationSubtypeEnum

Super-types:	xs:string < TpegLoc01AreaLocationSubtypeEnum (by restriction) < **_TpegLoc01AreaLocationSubtypeEnum** (by extension)
Sub-types:	None

Name	_TpegLoc01AreaLocationSubtypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:TpegLoc01AreaLocationSubtypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TpegLoc01AreaLocationSubtypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:TpegLoc01AreaLocationSubtypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TpegLoc01FramedPointLocationSubtypeEnum

Super-types:	xs:string < TpegLoc01FramedPointLocationSubtypeEnum (by restriction) < **_TpegLoc01FramedPointLocationSubtypeEnum** (by extension)
Sub-types:	None

Name	_TpegLoc01FramedPointLocationSubtypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:TpegLoc01FramedPointLocationSubtypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TpegLoc01FramedPointLocationSubtypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:TpegLoc01FramedPointLocationSubtypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TpegLoc01LinearLocationSubtypeEnum

Super-types:	xs:string < TpegLoc01LinearLocationSubtypeEnum (by restriction) < **_TpegLoc01LinearLocationSubtypeEnum** (by extension)
Sub-types:	None

Name	_TpegLoc01LinearLocationSubtypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:TpegLoc01LinearLocationSubtypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TpegLoc01LinearLocationSubtypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:TpegLoc01LinearLocationSubtypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TpegLoc01SimplePointLocationSubtypeEnum

Super-types:	xs:string < TpegLoc01SimplePointLocationSubtypeEnum (by restriction) < **_TpegLoc01SimplePointLocationSubtypeEnum** (by extension)
Sub-types:	None

Name	_TpegLoc01SimplePointLocationSubtypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:TpegLoc01SimplePointLocationSubtypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TpegLoc01SimplePointLocationSubtypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:TpegLoc01SimplePointLocationSubtypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TpegLoc03AreaDescriptorSubtypeEnum

Super-types:	xs:string < TpegLoc03AreaDescriptorSubtypeEnum (by restriction) < **_TpegLoc03AreaDescriptorSubtypeEnum** (by extension)
Sub-types:	None

Name	_TpegLoc03AreaDescriptorSubtypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:TpegLoc03AreaDescriptorSubtypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TpegLoc03AreaDescriptorSubtypeEnum">
   <xs:simpleContent>
      <xs:extension base="loc:TpegLoc03AreaDescriptorSubtypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TpegLoc03IlcPointDescriptorSubtypeEnum

Super-types:	xs:string < TpegLoc03IlcPointDescriptorSubtypeEnum (by restriction) < **_TpegLoc03IlcPointDescriptorSubtypeEnum** (by extension)
Sub-types:	None

Name	_TpegLoc03IlcPointDescriptorSubtypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:TpegLoc03IlcPointDescriptorSubtypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TpegLoc03IlcPointDescriptorSubtypeEnum">
   <xs:simpleContent>
      <xs:extension base="loc:TpegLoc03IlcPointDescriptorSubtypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TpegLoc03JunctionPointDescriptorSubtypeEnum

Super-types:	xs:string < TpegLoc03JunctionPointDescriptorSubtypeEnum (by restriction) < **_TpegLoc03JunctionPointDescriptorSubtypeEnum** (by extension)
Sub-types:	None

Name	_TpegLoc03JunctionPointDescriptorSubtypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   loc:TpegLoc03JunctionPointDescriptorSubtypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TpegLoc03JunctionPointDescriptorSubtypeEnum">
   <xs:simpleContent>
      <xs:extension base="loc:TpegLoc03JunctionPointDescriptorSubtypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TpegLoc03OtherPointDescriptorSubtypeEnum

Super-types:	xs:string < TpegLoc03OtherPointDescriptorSubtypeEnum (by restriction) < **_TpegLoc03OtherPointDescriptorSubtypeEnum** (by extension)
Sub-types:	None

Name _TpegLoc03OtherPointDescriptorSubtypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:TpegLoc03OtherPointDescriptorSubtypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TpegLoc03OtherPointDescriptorSubtypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:TpegLoc03OtherPointDescriptorSubtypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TpegLoc04HeightTypeEnum

Super-types: xs:string < TpegLoc04HeightTypeEnum (by restriction) < **_TpegLoc04HeightTypeEnum** (by extension)

Sub-types: None

Name _TpegLoc04HeightTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  loc:TpegLoc04HeightTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TpegLoc04HeightTypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:TpegLoc04HeightTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Simple Type: AlertCDirectionEnum

Super-types: xs:string < **AlertCDirectionEnum** (by restriction)

Sub-types:

- _AlertCDirectionEnum (by extension)

Name AlertCDirectionEnum

Content

- Base XSD Type: string
- *value* comes from list: {'negative'|'positive'|'_extended'}

Documentation Direction used to reach the primary location from the secondary location in ALERT-C location table, as defined in CEN ISO 14819-1

Schema Component Representation

```
<xs:simpleType name="AlertCDirectionEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="negative"/>
    <xs:enumeration value="positive"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: AlertCLocationCode

Super-types: com:NonNegativeInteger < **AlertCLocationCode** (by restriction)

Sub-types: None

Name AlertCLocationCode

Content

- **'NonNegativeInteger' super type was not found in this schema. Its facets could not be printed out.**
- 1 <= *value* <= 63487

Documentation A positive integer number (between 1 and 63 487) which uniquely identifies a pre-defined Alert C location defined within an Alert-C table.

Schema Component Representation

```
<xs:simpleType name="AlertCLocationCode">
  <xs:restriction base="com:NonNegativeInteger">
    <xs:minInclusive value="1"/>
    <xs:maxInclusive value="63487"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: AltitudeAccuracyEnum

Super-types: xs:string < **AltitudeAccuracyEnum** (by restriction)

Sub-types:
- _AltitudeAccuracyEnum (by extension)

Name AltitudeAccuracyEnum

Content
- Base XSD Type: string
- *value* comes from list: {'equalToOrLessThan1Centimetre'|'equalToOrLessThan2Centimetres'|'equalToOrLessThan5Centimetres'|'equalToOrLessThan10Centimetres'|'equal

Documentation Coded level of vertical accuracy

Schema Component Representation

```
<xs:simpleType name="AltitudeAccuracyEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="equalToOrLessThan1Centimetre"/>
    <xs:enumeration value="equalToOrLessThan2Centimetres"/>
    <xs:enumeration value="equalToOrLessThan5Centimetres"/>
    <xs:enumeration value="equalToOrLessThan10Centimetres"/>
    <xs:enumeration value="equalToOrLessThan20Centimetres"/>
    <xs:enumeration value="equalToOrLessThan50Centimetres"/>
    <xs:enumeration value="equalToOrLessThan1Metre"/>
    <xs:enumeration value="equalToOrLessThan2Metres"/>
    <xs:enumeration value="equalToOrLessThan5Metres"/>
    <xs:enumeration value="equalToOrLessThan10Metres"/>
    <xs:enumeration value="equalToOrLessThan20Metres"/>
    <xs:enumeration value="equalToOrLessThan50Metres"/>
    <xs:enumeration value="equalToOrLessThan100Metres"/>
    <xs:enumeration value="equalToOrLessThan200Metres"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: AreaPlacesEnum

Super-types: xs:string < **AreaPlacesEnum** (by restriction)

Sub-types:
- _AreaPlacesEnum (by extension)

Name AreaPlacesEnum

Content
- Base XSD Type: string
- *value* comes from list: {'atBorders'|'atHighAltitudes'|'inBuiltUpAreas'|'inForestedAreas'|'inGalleries'|'inLowLyingAreas'|'inRuralAreas'|'inShadedAreas'|'inTheInnerCityAreas'|'i

Documentation Type of area place(s)

Schema Component Representation

```
<xs:simpleType name="AreaPlacesEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="atBorders"/>
    <xs:enumeration value="atHighAltitudes"/>
    <xs:enumeration value="inBuiltUpAreas"/>
    <xs:enumeration value="inForestedAreas"/>
    <xs:enumeration value="inGalleries"/>
    <xs:enumeration value="inLowLyingAreas"/>
    <xs:enumeration value="inRuralAreas"/>
    <xs:enumeration value="inShadedAreas"/>
    <xs:enumeration value="inTheInnerCityAreas"/>
    <xs:enumeration value="inTunnels"/>
    <xs:enumeration value="onBridges"/>
    <xs:enumeration value="onDownhillSections"/>
    <xs:enumeration value="onElevatedSections"/>
    <xs:enumeration value="onEnteringOrLeavingTunnels"/>
    <xs:enumeration value="onFlyovers"/>
    <xs:enumeration value="onPasses"/>
    <xs:enumeration value="onUndergroundSections"/>
    <xs:enumeration value="onUnderpasses"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: CarriagewayEnum

Super-types: xs:string < **CarriagewayEnum** (by restriction)

Sub-types:
- _CarriagewayEnum (by extension)

Name CarriagewayEnum

Content

- Base XSD Type: string
- *value* comes from list: {'connectingCarriageway'|'cycleTrack'|'entrySlipRoad'|'exitSlipRoad'|'flyover'|'footpath'|'leftHandFeederRoad'|'leftHandParallelCarriageway'|'mainCarri

Documentation List of descriptors identifying specific carriageway details.

Schema Component Representation

```
<xs:simpleType name="CarriagewayEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="connectingCarriageway"/>
    <xs:enumeration value="cycleTrack"/>
    <xs:enumeration value="entrySlipRoad"/>
    <xs:enumeration value="exitSlipRoad"/>
    <xs:enumeration value="flyover"/>
    <xs:enumeration value="footpath"/>
    <xs:enumeration value="leftHandFeederRoad"/>
    <xs:enumeration value="leftHandParallelCarriageway"/>
    <xs:enumeration value="mainCarriageway"/>
    <xs:enumeration value="oppositeCarriageway"/>
    <xs:enumeration value="parallelCarriageway"/>
    <xs:enumeration value="rightHandFeederRoad"/>
    <xs:enumeration value="rightHandParallelCarriageway"/>
    <xs:enumeration value="roundabout"/>
    <xs:enumeration value="serviceRoad"/>
    <xs:enumeration value="slipRoads"/>
    <xs:enumeration value="underpass"/>
    <xs:enumeration value="unspecifiedCarriageway"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: DirectionEnum

Super-types: xs:string < **DirectionEnum** (by restriction)

Sub-types:

- _DirectionEnum (by extension)

Name DirectionEnum

Content

- Base XSD Type: string
- *value* comes from list: {'aligned'|'allDirections'|'anticlockwise'|'bothWays'|'clockwise'|'innerRing'|'outerRing'|'eastBound'|'northBound'|'northEastBound'|'northWestBound'|'sou

Documentation List of directions of travel.

Schema Component Representation

```
<xs:simpleType name="DirectionEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="aligned"/>
    <xs:enumeration value="allDirections"/>
    <xs:enumeration value="anticlockwise"/>
    <xs:enumeration value="bothWays"/>
    <xs:enumeration value="clockwise"/>
    <xs:enumeration value="innerRing"/>
    <xs:enumeration value="outerRing"/>
    <xs:enumeration value="eastBound"/>
    <xs:enumeration value="northBound"/>
    <xs:enumeration value="northEastBound"/>
    <xs:enumeration value="northWestBound"/>
    <xs:enumeration value="southBound"/>
    <xs:enumeration value="southEastBound"/>
    <xs:enumeration value="southWestBound"/>
    <xs:enumeration value="westBound"/>
    <xs:enumeration value="inboundTowardsTown"/>
    <xs:enumeration value="outboundFromTown"/>
    <xs:enumeration value="opposite"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: DirectionPurposeEnum

Super-types: xs:string < **DirectionPurposeEnum** (by restriction)

Sub-types:

- _DirectionPurposeEnum (by extension)

Name DirectionPurposeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'inbound'|'outbound'|'_extended'}

Documentation Main purpose of a direction of a road

Schema Component Representation

```
<xs:simpleType name="DirectionPurposeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="inbound"/>
    <xs:enumeration value="outbound"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: GeographicCharacteristicEnum

Super-types:	xs:string < **GeographicCharacteristicEnum** (by restriction)
Sub-types:	• _GeographicCharacteristicEnum (by extension)

Name GeographicCharacteristicEnum

Content

- Base XSD Type: string
- *value* comes from list: {'aroundABendInRoad'|'onBorder'|'onPass'|'overCrestOfHill'|'_extended'}

Documentation Descriptor to help to identify a specific location.

Schema Component Representation

```
<xs:simpleType name="GeographicCharacteristicEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="aroundABendInRoad"/>
    <xs:enumeration value="onBorder"/>
    <xs:enumeration value="onPass"/>
    <xs:enumeration value="overCrestOfHill"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: GmlPosList

Super-types:	com:LongString < **GmlPosList** (by restriction)
Sub-types:	None

Name GmlPosList

Content

- **'LongString' super type was not found in this schema. Its facets could not be printed out.**
- *pattern* = [-+]?[0-9]*\.?[0-9]+(\s[-+]?[0-9]*\.?[0-9]+){3,}

Documentation List of coordinates, space-separated, within the same coordinate reference system, defining a geometric entity. Modelled on DirectPositionListType in GML (EN ISO 19136), but constrained to represent a 2D or 3D polyline.

Schema Component Representation

```
<xs:simpleType name="GmlPosList">
  <xs:restriction base="com:LongString">
    <xs:pattern value="[-+]?[0-9]*\.?[0-9]+(\s[-+]?[0-9]*\.?[0-9]+){3,}"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: HeightGradeEnum

Super-types:	xs:string < **HeightGradeEnum** (by restriction)
Sub-types:	• _HeightGradeEnum (by extension)

Name HeightGradeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'aboveGrade'|'atGrade'|'belowGrade'|'_extended'}

Documentation List of height or vertical gradings of road sections.

Schema Component Representation

```
<xs:simpleType name="HeightGradeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="aboveGrade"/>
    <xs:enumeration value="atGrade"/>
    <xs:enumeration value="belowGrade"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: HeightTypeEnum

Super-types:	xs:string < **HeightTypeEnum** (by restriction)

Sub-types:

- _HeightTypeEnum (by extension)

Name HeightTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'ellipsoidalHeight'|'gravityRelatedHeight'|'relativeHeight'|'_extended'}

Documentation Coded value for type of height

Schema Component Representation

```
<xs:simpleType name="HeightTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ellipsoidalHeight"/>
    <xs:enumeration value="gravityRelatedHeight"/>
    <xs:enumeration value="relativeHeight"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: InfrastructureDescriptorEnum

Super-types: xs:string < **InfrastructureDescriptorEnum** (by restriction)

Sub-types:

- _InfrastructureDescriptorEnum (by extension)

Name InfrastructureDescriptorEnum

Content

- Base XSD Type: string
- *value* comes from list: {'atMotorwayInterchange'|'atRestArea'|'atServiceArea'|'atTollPlaza'|'atTunnelEntryOrExit'|'inGallery'|'inTunnel'|'onBridge'|'onConnector'|'onElevatedSe

Documentation Descriptor identifying infrastructure to help to identify a specific location.

Schema Component Representation

```
<xs:simpleType name="InfrastructureDescriptorEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="atMotorwayInterchange"/>
    <xs:enumeration value="atRestArea"/>
    <xs:enumeration value="atServiceArea"/>
    <xs:enumeration value="atTollPlaza"/>
    <xs:enumeration value="atTunnelEntryOrExit"/>
    <xs:enumeration value="inGallery"/>
    <xs:enumeration value="inTunnel"/>
    <xs:enumeration value="onBridge"/>
    <xs:enumeration value="onConnector"/>
    <xs:enumeration value="onElevatedSection"/>
    <xs:enumeration value="onFlyover"/>
    <xs:enumeration value="onIceRoad"/>
    <xs:enumeration value="onLevelCrossing"/>
    <xs:enumeration value="onLinkRoad"/>
    <xs:enumeration value="onRoundabout"/>
    <xs:enumeration value="onTheRoadway"/>
    <xs:enumeration value="onUndergroundSection"/>
    <xs:enumeration value="onUnderpass"/>
    <xs:enumeration value="withinJunction"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: LaneEnum

Super-types: xs:string < **LaneEnum** (by restriction)

Sub-types:

- _LaneEnum (by extension)

Name LaneEnum

Content

- Base XSD Type: string
- *value* comes from list: {'allLanesCompleteCarriageway'|'busLane'|'busStop'|'carPoolLane'|'centralReservation'|'crawlerLane'|'cycleLane'|'emergencyLane'|'escapeLane'|'exp

Documentation List of descriptors identifying specific lanes.

Schema Component Representation

```
<xs:simpleType name="LaneEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="allLanesCompleteCarriageway"/>
    <xs:enumeration value="busLane"/>
    <xs:enumeration value="busStop"/>
    <xs:enumeration value="carPoolLane"/>
    <xs:enumeration value="centralReservation"/>
    <xs:enumeration value="crawlerLane"/>
    <xs:enumeration value="cycleLane"/>
    <xs:enumeration value="emergencyLane"/>
    <xs:enumeration value="escapeLane"/>
    <xs:enumeration value="expressLane"/>
    <xs:enumeration value="hardShoulder"/>
```

```
      <xs:enumeration value="heavyVehicleLane"/>
      <xs:enumeration value="layBy"/>
      <xs:enumeration value="leftHandTurningLane"/>
      <xs:enumeration value="leftLane"/>
      <xs:enumeration value="localTrafficLane"/>
      <xs:enumeration value="middleLane"/>
      <xs:enumeration value="overtakingLane"/>
      <xs:enumeration value="rightHandTurningLane"/>
      <xs:enumeration value="rightLane"/>
      <xs:enumeration value="rushHourLane"/>
      <xs:enumeration value="setDownArea"/>
      <xs:enumeration value="slowVehicleLane"/>
      <xs:enumeration value="throughTrafficLane"/>
      <xs:enumeration value="tidalFlowLane"/>
      <xs:enumeration value="turningLane"/>
      <xs:enumeration value="verge"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: LinearDirectionEnum

Super-types:	xs:string < **LinearDirectionEnum** (by restriction)
Sub-types:	• _LinearDirectionEnum (by extension)

Name LinearDirectionEnum

Content

- Base XSD Type: string
- *value* comes from list: {'both'|'opposite'|'aligned'|'unknown'|'_extended'}

Documentation Directions of traffic flow relative to the direction in which the linear element is defined.

Schema Component Representation

```
<xs:simpleType name="LinearDirectionEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="both"/>
      <xs:enumeration value="opposite"/>
      <xs:enumeration value="aligned"/>
      <xs:enumeration value="unknown"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: LinearElementNatureEnum

Super-types:	xs:string < **LinearElementNatureEnum** (by restriction)
Sub-types:	• _LinearElementNatureEnum (by extension)

Name LinearElementNatureEnum

Content

- Base XSD Type: string
- *value* comes from list: {'road'|'roadSection'|'slipRoad'|'other'|'_extended'}

Documentation List of indicative natures of linear elements.

Schema Component Representation

```
<xs:simpleType name="LinearElementNatureEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="road"/>
      <xs:enumeration value="roadSection"/>
      <xs:enumeration value="slipRoad"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: NamedAreaTypeEnum

Super-types:	xs:string < **NamedAreaTypeEnum** (by restriction)
Sub-types:	• _NamedAreaTypeEnum (by extension)

Name NamedAreaTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'applicationRegion'|'continent'|'country'|'countryGroup'|'carParkArea'|'carpoolArea'|'fuzzyArea'|'industrialArea'|'lake'|'meteorologicalArea'|'metropolitar

Documentation Types of areas.

Schema Component Representation

```
<xs:simpleType name="NamedAreaTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="applicationRegion"/>
    <xs:enumeration value="continent"/>
    <xs:enumeration value="country"/>
    <xs:enumeration value="countryGroup"/>
    <xs:enumeration value="carParkArea"/>
    <xs:enumeration value="carpoolArea"/>
    <xs:enumeration value="fuzzyArea"/>
    <xs:enumeration value="industrialArea"/>
    <xs:enumeration value="lake"/>
    <xs:enumeration value="meteorologicalArea"/>
    <xs:enumeration value="metropolitanArea"/>
    <xs:enumeration value="municipality"/>
    <xs:enumeration value="parkAndRideSite"/>
    <xs:enumeration value="ruralCounty"/>
    <xs:enumeration value="sea"/>
    <xs:enumeration value="touristArea"/>
    <xs:enumeration value="trafficArea"/>
    <xs:enumeration value="urbanCounty"/>
    <xs:enumeration value="order1AdministrativeArea"/>
    <xs:enumeration value="order2AdministrativeArea"/>
    <xs:enumeration value="order3AdministrativeArea"/>
    <xs:enumeration value="order4AdministrativeArea"/>
    <xs:enumeration value="order5AdministrativeArea"/>
    <xs:enumeration value="policeForceControlArea"/>
    <xs:enumeration value="roadOperatorControlArea"/>
    <xs:enumeration value="waterArea"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: NutsCode

Super-types:	com:String < **NutsCode** (by restriction)
Sub-types:	None

Name NutsCode

Content

- **'String' super type was not found in this schema. Its facets could not be printed out.**
- *length* <= 5

Documentation A NUTS code (Nomenclature of territorial units for statistics).

Schema Component Representation

```
<xs:simpleType name="NutsCode">
  <xs:restriction base="com:String">
    <xs:maxLength value="5"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: NutsCodeTypeEnum

Super-types:	xs:string < **NutsCodeTypeEnum** (by restriction)
Sub-types:	• _NutsCodeTypeEnum (by extension)

Name NutsCodeTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'nuts1Code'|'nuts2Code'|'nuts3Code'|'lau1Code'|'lau2Code'|'_extended'}

Documentation Types of NUTS codes (Nomenclature of territorial units for statistics) including LAU codes (Local Administrative Units).

Schema Component Representation

```
<xs:simpleType name="NutsCodeTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="nuts1Code"/>
    <xs:enumeration value="nuts2Code"/>
    <xs:enumeration value="nuts3Code"/>
    <xs:enumeration value="lau1Code"/>
    <xs:enumeration value="lau2Code"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: OpenIrFormOfWayEnum

Super-types:	xs:string < **OpenIrFormOfWayEnum** (by restriction)
Sub-types:	• _OpenIrFormOfWayEnum (by extension)

Name OpenIrFormOfWayEnum

Content

- Base XSD Type: string
- *value* comes from list: {'undefined'|'motorway'|'multipleCarriageway'|'singleCarriageway'|'roundabout'|'slipRoad'|'trafficSquare'|'other'|'_extended'}

Documentation Enumeration of for of way

Schema Component Representation

```
<xs:simpleType name="OpenlrFormOfWayEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="undefined"/>
      <xs:enumeration value="motorway"/>
      <xs:enumeration value="multipleCarriageway"/>
      <xs:enumeration value="singleCarriageway"/>
      <xs:enumeration value="roundabout"/>
      <xs:enumeration value="slipRoad"/>
      <xs:enumeration value="trafficSquare"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: OpenlrFunctionalRoadClassEnum

Super-types: xs:string < **OpenlrFunctionalRoadClassEnum** (by restriction)

Sub-types:

- _OpenlrFunctionalRoadClassEnum (by extension)

Name OpenlrFunctionalRoadClassEnum

Content

- Base XSD Type: string
- *value* comes from list: {'frc0'|'frc1'|'frc2'|'frc3'|'frc4'|'frc5'|'frc6'|'frc7'|'_extended'}

Documentation Enumeration of functional road class

Schema Component Representation

```
<xs:simpleType name="OpenlrFunctionalRoadClassEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="frc0"/>
      <xs:enumeration value="frc1"/>
      <xs:enumeration value="frc2"/>
      <xs:enumeration value="frc3"/>
      <xs:enumeration value="frc4"/>
      <xs:enumeration value="frc5"/>
      <xs:enumeration value="frc6"/>
      <xs:enumeration value="frc7"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: OpenlrOrientationEnum

Super-types: xs:string < **OpenlrOrientationEnum** (by restriction)

Sub-types:

- _OpenlrOrientationEnum (by extension)

Name OpenlrOrientationEnum

Content

- Base XSD Type: string
- *value* comes from list: {'noOrientationOrUnknown'|'withLineDirection'|'againstLineDirection'|'both'|'_extended'}

Documentation Enumeration of orientation

Schema Component Representation

```
<xs:simpleType name="OpenlrOrientationEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="noOrientationOrUnknown"/>
      <xs:enumeration value="withLineDirection"/>
      <xs:enumeration value="againstLineDirection"/>
      <xs:enumeration value="both"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: OpenlrSideOfRoadEnum

Super-types: xs:string < **OpenlrSideOfRoadEnum** (by restriction)

Sub-types:

- _OpenlrSideOfRoadEnum (by extension)

Name OpenlrSideOfRoadEnum

Content

- Base XSD Type: string

- *value* comes from list: {'onRoadOrUnknown'|'right'|'left'|'both'|'_extended'}

Documentation Enumeration of side of road

Schema Component Representation

```
<xs:simpleType name="OpenlrSideOfRoadEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="onRoadOrUnknown"/>
    <xs:enumeration value="right"/>
    <xs:enumeration value="left"/>
    <xs:enumeration value="both"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: PositionConfidenceCodedErrorEnum

Super-types: xs:string < **PositionConfidenceCodedErrorEnum** (by restriction)

Sub-types:
- _PositionConfidenceCodedErrorEnum (by extension)

Name PositionConfidenceCodedErrorEnum

Content
- Base XSD Type: string
- *value* comes from list: {'outOfRange'|'unavailable'|'_extended'}

Documentation Error code for horizontal or vertical position confidence

Schema Component Representation

```
<xs:simpleType name="PositionConfidenceCodedErrorEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="outOfRange"/>
    <xs:enumeration value="unavailable"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ReferentTypeEnum

Super-types: xs:string < **ReferentTypeEnum** (by restriction)

Sub-types:
- _ReferentTypeEnum (by extension)

Name ReferentTypeEnum

Content
- Base XSD Type: string
- *value* comes from list: {'boundary'|'intersection'|'referenceMarker'|'landmark'|'roadNode'|'_extended'}

Documentation A set of types of known points along a linear object such as a road.

Schema Component Representation

```
<xs:simpleType name="ReferentTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="boundary"/>
    <xs:enumeration value="intersection"/>
    <xs:enumeration value="referenceMarker"/>
    <xs:enumeration value="landmark"/>
    <xs:enumeration value="roadNode"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: RelativePositionOnCarriagewayEnum

Super-types: xs:string < **RelativePositionOnCarriagewayEnum** (by restriction)

Sub-types:
- _RelativePositionOnCarriagewayEnum (by extension)

Name RelativePositionOnCarriagewayEnum

Content
- Base XSD Type: string
- *value* comes from list: {'inTheCentre'|'onTheLeft'|'onTheRight'|'_extended'}

Documentation Identifies a relative position across a carriageway

Schema Component Representation

```
<xs:simpleType name="RelativePositionOnCarriagewayEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="inTheCentre"/>
    <xs:enumeration value="onTheLeft"/>
    <xs:enumeration value="onTheRight"/>
    <xs:enumeration value="_extended"/>
```

```
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: SubdivisionCode

Super-types:	com:String < **SubdivisionCode** (by restriction)
Sub-types:	None

Name SubdivisionCode

Content

- **'String' super type was not found in this schema. Its facets could not be printed out.**
- *length* <= 3

Documentation The second part of an ISO 3166-2 country sub-division code (up to 3 characters) which may be used along with a CountryCode to make a full ISO 3166-2 subdivision code.

Schema Component Representation

```
<xs:simpleType name="SubdivisionCode">
  <xs:restriction base="com:String">
    <xs:maxLength value="3"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: SubdivisionTypeEnum

Super-types:	xs:string < **SubdivisionTypeEnum** (by restriction)
Sub-types:	_SubdivisionTypeEnum (by extension)

Name SubdivisionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'administrativeAtoll'|'administrativeRegion'|'administrativeTerritory'|'arcticRegion'|'autonomousCity'|'autonomousCityInNorthAfrica'|'autonomousComm

Documentation ISO 3166-2 subdivison types.

Schema Component Representation

```
<xs:simpleType name="SubdivisionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="administrativeAtoll"/>
    <xs:enumeration value="administrativeRegion"/>
    <xs:enumeration value="administrativeTerritory"/>
    <xs:enumeration value="arcticRegion"/>
    <xs:enumeration value="autonomousCity"/>
    <xs:enumeration value="autonomousCityInNorthAfrica"/>
    <xs:enumeration value="autonomousCommunity"/>
    <xs:enumeration value="autonomousDistrict"/>
    <xs:enumeration value="autonomousProvince"/>
    <xs:enumeration value="autonomousRegion"/>
    <xs:enumeration value="canton"/>
    <xs:enumeration value="capitalCity"/>
    <xs:enumeration value="city"/>
    <xs:enumeration value="cityMunicipality"/>
    <xs:enumeration value="cityOfCountyRight"/>
    <xs:enumeration value="commune"/>
    <xs:enumeration value="councilArea"/>
    <xs:enumeration value="county"/>
    <xs:enumeration value="country"/>
    <xs:enumeration value="department"/>
    <xs:enumeration value="dependency"/>
    <xs:enumeration value="district"/>
    <xs:enumeration value="districtMunicipality"/>
    <xs:enumeration value="districtWithSpecialStatus"/>
    <xs:enumeration value="entity"/>
    <xs:enumeration value="geographicalEntity"/>
    <xs:enumeration value="governorate"/>
    <xs:enumeration value="laender"/>
    <xs:enumeration value="localCouncil"/>
    <xs:enumeration value="londonBorough"/>
    <xs:enumeration value="metropolitanArea"/>
    <xs:enumeration value="metropolitanDepartment"/>
    <xs:enumeration value="metropolitanDistrict"/>
    <xs:enumeration value="metropolitanRegion"/>
    <xs:enumeration value="municipality"/>
    <xs:enumeration value="overseasDepartment"/>
    <xs:enumeration value="overseasRegion"/>
    <xs:enumeration value="overseasTerritorialCollectivity"/>
    <xs:enumeration value="parish"/>
    <xs:enumeration value="province"/>
    <xs:enumeration value="quarter"/>
    <xs:enumeration value="region"/>
    <xs:enumeration value="republic"/>
    <xs:enumeration value="republicanCity"/>
    <xs:enumeration value="selfGovernedPart"/>
    <xs:enumeration value="specialMunicipality"/>
    <xs:enumeration value="state"/>
    <xs:enumeration value="territorialUnit"/>
    <xs:enumeration value="territory"/>
    <xs:enumeration value="twoTierCounty"/>
```

```
      <xs:enumeration value="unitaryAuthority"/>
      <xs:enumeration value="ward"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TpegLoc01AreaLocationSubtypeEnum

Super-types: xs:string < **TpegLoc01AreaLocationSubtypeEnum** (by restriction)

Sub-types:
- _TpegLoc01AreaLocationSubtypeEnum (by extension)

Name TpegLoc01AreaLocationSubtypeEnum

Content
- Base XSD Type: string
- *value* comes from list: {'largeArea'|'other'|'_extended'}

Documentation Types of area.

Schema Component Representation

```
<xs:simpleType name="TpegLoc01AreaLocationSubtypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="largeArea"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TpegLoc01FramedPointLocationSubtypeEnum

Super-types: xs:string < **TpegLoc01FramedPointLocationSubtypeEnum** (by restriction)

Sub-types:
- _TpegLoc01FramedPointLocationSubtypeEnum (by extension)

Name TpegLoc01FramedPointLocationSubtypeEnum

Content
- Base XSD Type: string
- *value* comes from list: {'framedPoint'|'_extended'}

Documentation Types of points on the road network framed by two other points on the same road.

Schema Component Representation

```
<xs:simpleType name="TpegLoc01FramedPointLocationSubtypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="framedPoint"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TpegLoc01LinearLocationSubtypeEnum

Super-types: xs:string < **TpegLoc01LinearLocationSubtypeEnum** (by restriction)

Sub-types:
- _TpegLoc01LinearLocationSubtypeEnum (by extension)

Name TpegLoc01LinearLocationSubtypeEnum

Content
- Base XSD Type: string
- *value* comes from list: {'segment'|'_extended'}

Documentation Types of linear location.

Schema Component Representation

```
<xs:simpleType name="TpegLoc01LinearLocationSubtypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="segment"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TpegLoc01SimplePointLocationSubtypeEnum

Super-types: xs:string < **TpegLoc01SimplePointLocationSubtypeEnum** (by restriction)

Sub-types:
- _TpegLoc01SimplePointLocationSubtypeEnum (by extension)

Name TpegLoc01SimplePointLocationSubtypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'intersection'|'nonLinkedPoint'|'_extended'}

Documentation Types of simple point.

Schema Component Representation

```
<xs:simpleType name="TpegLoc01SimplePointLocationSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="intersection"/>
    <xs:enumeration value="nonLinkedPoint"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TpegLoc03AreaDescriptorSubtypeEnum

Super-types: xs:string < **TpegLoc03AreaDescriptorSubtypeEnum** (by restriction)

Sub-types:

- _TpegLoc03AreaDescriptorSubtypeEnum (by extension)

Name TpegLoc03AreaDescriptorSubtypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'administrativeAreaName'|'administrativeReferenceName'|'areaName'|'countyName'|'lakeName'|'nationName'|'policeForceControlAreaName'|'region

Documentation Descriptors for describing area locations.

Schema Component Representation

```
<xs:simpleType name="TpegLoc03AreaDescriptorSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="administrativeAreaName"/>
    <xs:enumeration value="administrativeReferenceName"/>
    <xs:enumeration value="areaName"/>
    <xs:enumeration value="countyName"/>
    <xs:enumeration value="lakeName"/>
    <xs:enumeration value="nationName"/>
    <xs:enumeration value="policeForceControlAreaName"/>
    <xs:enumeration value="regionName"/>
    <xs:enumeration value="seaName"/>
    <xs:enumeration value="townName"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TpegLoc03IlcPointDescriptorSubtypeEnum

Super-types: xs:string < **TpegLoc03IlcPointDescriptorSubtypeEnum** (by restriction)

Sub-types:

- _TpegLoc03IlcPointDescriptorSubtypeEnum (by extension)

Name TpegLoc03IlcPointDescriptorSubtypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'tpegIlcName1'|'tpegIlcName2'|'tpegIlcName3'|'_extended'}

Documentation Descriptors for describing a junction by identifying the intersecting roads at a road junction.

Schema Component Representation

```
<xs:simpleType name="TpegLoc03IlcPointDescriptorSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="tpegIlcName1"/>
    <xs:enumeration value="tpegIlcName2"/>
    <xs:enumeration value="tpegIlcName3"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TpegLoc03JunctionPointDescriptorSubtypeEnum

Super-types: xs:string < **TpegLoc03JunctionPointDescriptorSubtypeEnum** (by restriction)

Sub-types:

- _TpegLoc03JunctionPointDescriptorSubtypeEnum (by extension)

Name TpegLoc03JunctionPointDescriptorSubtypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'junctionName'|'_extended'}

Documentation Descriptors for describing a point at a road junction.

Schema Component Representation

```
<xs:simpleType name="TpegLoc03JunctionPointDescriptorSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="junctionName"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TpegLoc03OtherPointDescriptorSubtypeEnum

Super-types: xs:string < **TpegLoc03OtherPointDescriptorSubtypeEnum** (by restriction)

Sub-types:
- _TpegLoc03OtherPointDescriptorSubtypeEnum (by extension)

Name TpegLoc03OtherPointDescriptorSubtypeEnum

Content
- Base XSD Type: string
- *value* comes from list: {'administrativeAreaName'|'administrativeReferenceName'|'airportName'|'areaName'|'buildingName'|'busStopIdentifier'|'busStopName'|'canalName'|'

Documentation Descriptors other than junction names and road descriptors which can help to identify the location of points on the road network.

Schema Component Representation

```
<xs:simpleType name="TpegLoc03OtherPointDescriptorSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="administrativeAreaName"/>
    <xs:enumeration value="administrativeReferenceName"/>
    <xs:enumeration value="airportName"/>
    <xs:enumeration value="areaName"/>
    <xs:enumeration value="buildingName"/>
    <xs:enumeration value="busStopIdentifier"/>
    <xs:enumeration value="busStopName"/>
    <xs:enumeration value="canalName"/>
    <xs:enumeration value="countyName"/>
    <xs:enumeration value="ferryPortName"/>
    <xs:enumeration value="intersectionName"/>
    <xs:enumeration value="lakeName"/>
    <xs:enumeration value="linkName"/>
    <xs:enumeration value="localLinkName"/>
    <xs:enumeration value="metroStationName"/>
    <xs:enumeration value="nationName"/>
    <xs:enumeration value="nonLinkedPointName"/>
    <xs:enumeration value="parkingFacilityName"/>
    <xs:enumeration value="pointName"/>
    <xs:enumeration value="pointOfInterestName"/>
    <xs:enumeration value="railwayStation"/>
    <xs:enumeration value="regionName"/>
    <xs:enumeration value="riverName"/>
    <xs:enumeration value="seaName"/>
    <xs:enumeration value="serviceAreaName"/>
    <xs:enumeration value="tidalRiverName"/>
    <xs:enumeration value="townName"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TpegLoc04HeightTypeEnum

Super-types: xs:string < **TpegLoc04HeightTypeEnum** (by restriction)

Sub-types:
- _TpegLoc04HeightTypeEnum (by extension)

Name TpegLoc04HeightTypeEnum

Content
- Base XSD Type: string
- *value* comes from list: {'above'|'aboveSeaLevel'|'aboveStreetLevel'|'at'|'atSeaLevel'|'atStreetLevel'|'below'|'belowSeaLevel'|'belowStreetLevel'|'undefined'|'unknown'|'other'|'_

Documentation Types of height.

Schema Component Representation

```
<xs:simpleType name="TpegLoc04HeightTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="above"/>
    <xs:enumeration value="aboveSeaLevel"/>
    <xs:enumeration value="aboveStreetLevel"/>
    <xs:enumeration value="at"/>
    <xs:enumeration value="atSeaLevel"/>
    <xs:enumeration value="atStreetLevel"/>
    <xs:enumeration value="below"/>
    <xs:enumeration value="belowSeaLevel"/>
    <xs:enumeration value="belowStreetLevel"/>
    <xs:enumeration value="undefined"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

DATEXII_3_Parking

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/parking**
Version	1
Element and Attribute Namespaces	• Global element and attribute declarations belong to this schema's target namespace. • By default, local element declarations belong to this schema's target namespace. • By default, local attribute declarations have no namespace.

Schema Composition	• This schema imports schema(s) from the following namespace(s):
	  ◦ *http://datex2.eu/schema/3/locationReferencing* (at DATEXII_3_LocationReferencing.xsd)
	  ◦ *http://datex2.eu/schema/3/facilities* (at DATEXII_3_Facilities.xsd)
	  ◦ *http://datex2.eu/schema/3/common* (at DATEXII_3_Common.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
loc	http://datex2.eu/schema/3/locationReferencing
fac	http://datex2.eu/schema/3/facilities
com	http://datex2.eu/schema/3/common
prk	**http://datex2.eu/schema/3/parking**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified"
version="1" targetNamespace="http://datex2.eu/schema/3/parking">
   <xs:import namespace="http://datex2.eu/schema/3/locationReferencing"
   schemaLocation="DATEXII_3_LocationReferencing.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/facilities"
   schemaLocation="DATEXII_3_Facilities.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/common"
   schemaLocation="DATEXII_3_Common.xsd"/>
   ...
</xs:schema>
```

top

Global Definitions

Complex Type: RoadInformationEnhanced

Super-types:	loc:RoadInformation < **RoadInformationEnhanced** (by extension)
Sub-types:	None

Name	RoadInformationEnhanced
Abstract	no
Documentation	Additional road information.

XML Instance Representation

```
<...>
   <!-- 'loc:RoadInformation' super type was not found in this schema. Some
   elements and attributes may be missing. -->
   <prk:typeOfRoad> prk:_RoadTypeEnum </prk:typeOfRoad> [0..1] ?
   <prk:roadOrigination> com:MultilingualString </prk:roadOrigination> [0..*]
   ?
   <prk:_roadInformationEnhancedExtension> com:_ExtensionType
   </prk:_roadInformationEnhancedExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RoadInformationEnhanced">
   <xs:complexContent>
      <xs:extension base="loc:RoadInformation">
         <xs:sequence>
            <xs:element name="typeOfRoad" type="prk:_RoadTypeEnum"
            minOccurs="0" maxOccurs="1"/>
            <xs:element name="roadOrigination" type="com:MultilingualString"
            minOccurs="0" maxOccurs="unbounded"/>
            <xs:element name="_roadInformationEnhancedExtension"
            type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _RoadTypeEnum

Super-types:	xs:string < RoadTypeEnum (by restriction) < **_RoadTypeEnum** (by extension)
Sub-types:	None

Name	_RoadTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   prk:RoadTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_RoadTypeEnum">
   <xs:simpleContent>
      <xs:extension base="prk:RoadTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
```

```
   </xs:simpleContent>
</xs:complexType>
```

top

Simple Type: RoadTypeEnum

Super-types:	xs:string < **RoadTypeEnum** (by restriction)
Sub-types:	• _RoadTypeEnum (by extension)

Name RoadTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'motorway'|'trunkRoad'|'mainRoad'|'other'|'_extended'}

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

Schema Component Representation

```
<xs:simpleType name="RoadTypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="motorway"/>
      <xs:enumeration value="trunkRoad"/>
      <xs:enumeration value="mainRoad"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

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DATEXII_3_TrafficRegulation

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/trafficRegulation**
Version	1
Element and Attribute Namespaces	

- Global element and attribute declarations belong to this schema's target namespace.
- By default, local element declarations belong to this schema's target namespace.
- By default, local attribute declarations have no namespace.

Schema Composition

- This schema imports schema(s) from the following namespace(s):
  - *http://datex2.eu/schema/3/locationReferencing* (at DATEXII_3_LocationReferencing.xsd)
  - *http://datex2.eu/schema/3/common* (at DATEXII_3_Common.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
loc	http://datex2.eu/schema/3/locationReferencing
com	http://datex2.eu/schema/3/common
tro	**http://datex2.eu/schema/3/trafficRegulation**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified" version="1"
targetNamespace="http://datex2.eu/schema/3/trafficRegulation">
   <xs:import namespace="http://datex2.eu/schema/3/locationReferencing"
   schemaLocation="DATEXII_3_LocationReferencing.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/common" schemaLocation="DATEXII_3_Common.xsd"/>
   ...
</xs:schema>
```

top

Global Definitions

Complex Type: AccessCondition

Super-types:	Condition < **AccessCondition** (by extension)
Sub-types:	None

Name	AccessCondition
Abstract	no
Documentation	Conditions for the access of a road or carriageway or lane.

XML Instance Representation

```
<...>
   <tro:negate> com:Boolean </tro:negate> [0..1] ?
   <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
   <tro:_conditionExtension> com:_ExtensionType </tro:_conditionExtension> [0..1]
   <tro:accessConditionType> tro:_AccessConditionTypeEnum </tro:accessConditionType> [1..*] ?
   <tro:otherAccessRestriction> com:MultilingualString </tro:otherAccessRestriction> [0..1] ?
   <tro:applicableLocation> loc:LocationReference </tro:applicableLocation> [0..1] ?
   <tro:_accessConditionExtension> com:_ExtensionType </tro:_accessConditionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AccessCondition">
   <xs:complexContent>
      <xs:extension base="tro:Condition">
         <xs:sequence>
            <xs:element name="accessConditionType" type="tro:_AccessConditionTypeEnum" minOccurs="1"
            maxOccurs="unbounded"/>
            <xs:element name="otherAccessRestriction" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
            <xs:element name="applicableLocation" type="loc:LocationReference" minOccurs="0"/>
            <xs:element name="_accessConditionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: AccessRestriction

Super-types:	TypeOfRegulation < **AccessRestriction** (by extension)
Sub-types:	None

Name	AccessRestriction
Abstract	no
Documentation	Class for access restriction, e.g. road closures for specific vehicle types.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:nonVehicularRoadUser> tro:_NonVehicularRoadUserTypeEnum </tro:nonVehicularRoadUser> [0..1] ?
   <tro:accessRestrictionType> tro:_AccessRestrictionTypeEnum </tro:accessRestrictionType> [1] ?
   <tro:_accessRestrictionExtension> com:_ExtensionType </tro:_accessRestrictionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AccessRestriction">
```

```
  <xs:complexContent>
    <xs:extension base="tro:TypeOfRegulation">
      <xs:sequence>
        <xs:element name="nonVehicularRoadUser" type="tro:_NonVehicularRoadUserTypeEnum" minOccurs="0"
        maxOccurs="1"/>
        <xs:element name="accessRestrictionType" type="tro:_AccessRestrictionTypeEnum" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="_accessRestrictionExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: ActivatedRegulation

Super-types:	None
Sub-types:	None

Name	ActivatedRegulation
Abstract	no
Documentation	A general permission used currently to implement a traffic regulation.

XML Instance Representation

```
<...>
  <tro:actor> com:MultilingualString </tro:actor> [1] ?
  <tro:issuingAuthority> com:MultilingualString </tro:issuingAuthority> [1] ?
  <tro:regulationId> com:String </tro:regulationId> [1] ?
  <tro:trafficRegulation> tro:TrafficRegulation </tro:trafficRegulation> [1..*]
  <tro:_activatedRegulationExtension> com:_ExtensionType </tro:_activatedRegulationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ActivatedRegulation">
  <xs:sequence>
    <xs:element name="actor" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
    <xs:element name="issuingAuthority" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
    <xs:element name="regulationId" type="com:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="trafficRegulation" type="tro:TrafficRegulation" maxOccurs="unbounded"/>
    <xs:element name="_activatedRegulationExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: AdHocTrafficRegulation

Super-types:	None
Sub-types:	None

Name	AdHocTrafficRegulation
Abstract	no
Documentation	Ad hoc traffic regulations in urgent (usually safety relevant) situations without a traffic regulation order.

XML Instance Representation

```
<...>
  <tro:installer> tro:_TrafficRegulationInstallerTypeEnum </tro:installer> [1] ?
  <tro:trafficRegulation> tro:TrafficRegulation </tro:trafficRegulation> [1..*]
  <tro:_adHocTrafficRegulationExtension> com:_ExtensionType </tro:_adHocTrafficRegulationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AdHocTrafficRegulation">
  <xs:sequence>
    <xs:element name="installer" type="tro:_TrafficRegulationInstallerTypeEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="trafficRegulation" type="tro:TrafficRegulation" maxOccurs="unbounded"/>
    <xs:element name="_adHocTrafficRegulationExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: AdHocTrafficRegulations

Super-types:	None
Sub-types:	None

Name	AdHocTrafficRegulations
Abstract	no
Documentation	Traffic regulations implemented by road operators without formal order due to urgent safety requirements.

XML Instance Representation

```
<...>
  <tro:adHocTrafficRegulation> tro:AdHocTrafficRegulation </tro:adHocTrafficRegulation> [1..*]
  <tro:_adHocTrafficRegulationsExtension> com:_ExtensionType </tro:_adHocTrafficRegulationsExtension> [0..1]
```

```
</...>
```

Schema Component Representation

```
<xs:complexType name="AdHocTrafficRegulations">
   <xs:sequence>
      <xs:element name="adHocTrafficRegulation" type="tro:AdHocTrafficRegulation" maxOccurs="unbounded"/>
      <xs:element name="_adHocTrafficRegulationsExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AlternateRoadOrCarriagewayOrLaneLayout

Super-types:	TypeOfRegulation < **AlternateRoadOrCarriagewayOrLaneLayout** (by extension)
Sub-types:	None

Name	AlternateRoadOrCarriagewayOrLaneLayout
Abstract	no
Documentation	This class describes a regulation where a road/carriageway/lane has temporarily another layout.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:deviationToHardshoulder> com:Boolean </tro:deviationToHardshoulder> [0..1] ?
   <tro:deviationToOtherCarrriageway> com:Boolean </tro:deviationToOtherCarrriageway> [0..1] ?
   <tro:mergedToOtherLane> com:Boolean </tro:mergedToOtherLane> [0..1] ?
   <tro:yellowMarkings> com:Boolean </tro:yellowMarkings> [0..1] ?
   <tro:roadOrCarriagewayOrLaneLayoutType> tro:_RoadOrCarriagewayOrLaneLayoutType
   </tro:roadOrCarriagewayOrLaneLayoutType> [1] ?
   <tro:newLayout> loc:LinearLocation </tro:newLayout> [0..1] ?
   <tro:speedLimit> tro:SpeedLimit </tro:speedLimit> [0..1] ?
   <tro:_alternateRoadOrCarriagewayOrLaneLayoutExtension> com:_ExtensionType
   </tro:_alternateRoadOrCarriagewayOrLaneLayoutExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlternateRoadOrCarriagewayOrLaneLayout">
   <xs:complexContent>
      <xs:extension base="tro:TypeOfRegulation">
         <xs:sequence>
            <xs:element name="deviationToHardshoulder" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="deviationToOtherCarrriageway" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="mergedToOtherLane" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="yellowMarkings" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="roadOrCarriagewayOrLaneLayoutType" type="tro:_RoadOrCarriagewayOrLaneLayoutType"
            minOccurs="1" maxOccurs="1"/>
            <xs:element name="newLayout" type="loc:LinearLocation" minOccurs="0"/>
            <xs:element name="speedLimit" type="tro:SpeedLimit" minOccurs="0"/>
            <xs:element name="_alternateRoadOrCarriagewayOrLaneLayoutExtension" type="com:_ExtensionType"
            minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: AmbientWarnings

Super-types:	TypeOfRegulation < Warning (by extension) < **AmbientWarnings** (by extension)
Sub-types:	None

Name	AmbientWarnings
Abstract	no
Documentation	Warnings about ambient factors i.e. conditions more likely to occur due to the location or surroundings of the road.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:_warningExtension> com:_ExtensionType </tro:_warningExtension> [0..1]
   <tro:ambientWarningsType> tro:_AmbientWarningTypeEnum </tro:ambientWarningsType> [1] ?
   <tro:_ambientWarningsExtension> com:_ExtensionType </tro:_ambientWarningsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AmbientWarnings">
   <xs:complexContent>
      <xs:extension base="tro:Warning">
         <xs:sequence>
            <xs:element name="ambientWarningsType" type="tro:_AmbientWarningTypeEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_ambientWarningsExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: AutomatedTrafficManagement

Super-types:	PlannedDynamicTrafficRegulation < **AutomatedTrafficManagement** (by extension)
Sub-types:	None

Name	AutomatedTrafficManagement
Abstract	no
Documentation	Technical systems that perform traffic regulation (e.g. speed limits) automatically to manage traffic.

XML Instance Representation

```
<...>
   <tro:issuingAuthority> com:MultilingualString </tro:issuingAuthority> [0..1] ?
   <tro:_plannedDynamicTrafficRegulationExtension> com:_ExtensionType
   </tro:_plannedDynamicTrafficRegulationExtension> [0..1]
   <tro:trafficRegulation> tro:TrafficRegulation </tro:trafficRegulation> [0..*]
   <tro:_automatedTrafficManagementExtension> com:_ExtensionType </tro:_automatedTrafficManagementExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AutomatedTrafficManagement">
   <xs:complexContent>
      <xs:extension base="tro:PlannedDynamicTrafficRegulation">
         <xs:sequence>
            <xs:element name="trafficRegulation" type="tro:TrafficRegulation" minOccurs="0" maxOccurs="unbounded"/>
            <xs:element name="_automatedTrafficManagementExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Condition

Super-types:	None
Sub-types:	• AccessCondition (by extension) • ConditionSet (by extension) • DriverCondition (by extension) • LocationCondition (by extension) • NonVehicularRoadUserCondition (by extension) • OccupantCondition (by extension) • PermitCondition (by extension) • RoadCondition (by extension) • ValidityCondition (by extension) • VehicleCondition (by extension)

Name	Condition
Abstract	yes
Documentation	Abstract class that specifies a condition for applicabilities or exemptions of a traffic regulation.

XML Instance Representation

```
<...>
   <tro:negate> com:Boolean </tro:negate> [0..1] ?
   <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
   <tro:_conditionExtension> com:_ExtensionType </tro:_conditionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Condition" abstract="true">
   <xs:sequence>
      <xs:element name="negate" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="legalBasis" type="tro:LegalBasis" minOccurs="0"/>
      <xs:element name="_conditionExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: ConditionSet

Super-types:	Condition < **ConditionSet** (by extension)
Sub-types:	None

Name	ConditionSet
Abstract	no
Documentation	Groups a number of conditions into a condition set.

XML Instance Representation

```
<...>
   <tro:negate> com:Boolean </tro:negate> [0..1] ?
   <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
   <tro:_conditionExtension> com:_ExtensionType </tro:_conditionExtension> [0..1]
   <tro:operator> tro:_ConditionOperator </tro:operator> [1] ?
   <tro:conditions> tro:Condition </tro:conditions> [1..*] ?
   <tro:_conditionSetExtension> com:_ExtensionType </tro:_conditionSetExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ConditionSet">
  <xs:complexContent>
    <xs:extension base="tro:Condition">
      <xs:sequence>
        <xs:element name="operator" type="tro:_ConditionOperator" minOccurs="1" maxOccurs="1"/>
        <xs:element name="conditions" type="tro:Condition" maxOccurs="unbounded"/>
        <xs:element name="_conditionSetExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: DirectionRestriction

Super-types:	TypeOfRegulation < **DirectionRestriction** (by extension)
Sub-types:	None

Name	DirectionRestriction
Abstract	no
Documentation	Restriction of direction to be followed.

XML Instance Representation

```
<...>
  <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
  <tro:directionRestrictionType> tro:_DirectionRestrictionTypeEnum </tro:directionRestrictionType> [1] ?
  <tro:respectBicycle> com:Boolean </tro:respectBicycle> [0..1] ?
  <tro:respectPedestrian> com:Boolean </tro:respectPedestrian> [0..1] ?
  <tro:respectMotorisedPersonalTransportDevices> com:Boolean </tro:respectMotorisedPersonalTransportDevices> [0..1]
  ?
  <tro:_directionRestrictionExtension> com:_ExtensionType </tro:_directionRestrictionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DirectionRestriction">
  <xs:complexContent>
    <xs:extension base="tro:TypeOfRegulation">
      <xs:sequence>
        <xs:element name="directionRestrictionType" type="tro:_DirectionRestrictionTypeEnum" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="respectBicycle" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
        <xs:element name="respectPedestrian" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
        <xs:element name="respectMotorisedPersonalTransportDevices" type="com:Boolean" minOccurs="0"
        maxOccurs="1"/>
        <xs:element name="_directionRestrictionExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: DriverCondition

Super-types:	Condition < **DriverCondition** (by extension)
Sub-types:	None

Name	DriverCondition
Abstract	no
Documentation	Conditions for the driver, e.g. holding a disabled permit.

XML Instance Representation

```
<...>
  <tro:negate> com:Boolean </tro:negate> [0..1] ?
  <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
  <tro:_conditionExtension> com:_ExtensionType </tro:_conditionExtension> [0..1]
  <tro:driverCharacteristicsType> tro:_DriverCharacteristicsTypeEnum </tro:driverCharacteristicsType> [0..1] ?
  <tro:ageOfDriver> com:NonNegativeInteger </tro:ageOfDriver> [0..1] ?
  <tro:licenseCharacteristics> tro:_LicenseCharacteristicsEnum </tro:licenseCharacteristics> [0..1] ?
  <tro:timeLicenseHeld> tro:Duration </tro:timeLicenseHeld> [0..1] ?
  <tro:_driverConditionExtension> com:_ExtensionType </tro:_driverConditionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DriverCondition">
  <xs:complexContent>
    <xs:extension base="tro:Condition">
      <xs:sequence>
        <xs:element name="driverCharacteristicsType" type="tro:_DriverCharacteristicsTypeEnum" minOccurs="0"
        maxOccurs="1"/>
        <xs:element name="ageOfDriver" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
        <xs:element name="licenseCharacteristics" type="tro:_LicenseCharacteristicsEnum" minOccurs="0"
        maxOccurs="1"/>
        <xs:element name="timeLicenseHeld" type="tro:Duration" minOccurs="0" maxOccurs="1"/>
        <xs:element name="_driverConditionExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
```

```
</xs:complexType>
```

top

Complex Type: LegalBasis

Super-types:	None
Sub-types:	None

Name	LegalBasis
Abstract	no
Documentation	Class for specification of a legal basis.

XML Instance Representation

```
<...>
   <tro:name> com:MultilingualString </tro:name> [1] ?
   <tro:version> com:String </tro:version> [0..1] ?
   <tro:date> com:Date </tro:date> [0..1] ?
   <tro:_legalBasisExtension> com:_ExtensionType </tro:_legalBasisExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LegalBasis">
   <xs:sequence>
      <xs:element name="name" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
      <xs:element name="version" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="date" type="com:Date" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_legalBasisExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: LocationCondition

Super-types:	Condition < **LocationCondition** (by extension)
Sub-types:	None

Name	LocationCondition
Abstract	no
Documentation	Conditions for the location of a traffic regulation.

XML Instance Representation

```
<...>
   <tro:negate> com:Boolean </tro:negate> [0..1] ?
   <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
   <tro:_conditionExtension> com:_ExtensionType </tro:_conditionExtension> [0..1]
   <tro:implementedLocation> loc:LocationReference </tro:implementedLocation> [0..1] ?
   <tro:locationByOrder> loc:LocationReference </tro:locationByOrder> [0..1] ?
   <tro:trafficImpactLocation> loc:LocationReference </tro:trafficImpactLocation> [0..1] ?
   <tro:_locationConditionExtension> com:_ExtensionType </tro:_locationConditionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LocationCondition">
   <xs:complexContent>
      <xs:extension base="tro:Condition">
         <xs:sequence>
            <xs:element name="implementedLocation" type="loc:LocationReference" minOccurs="0"/>
            <xs:element name="locationByOrder" type="loc:LocationReference" minOccurs="0"/>
            <xs:element name="trafficImpactLocation" type="loc:LocationReference" minOccurs="0"/>
            <xs:element name="_locationConditionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: MandatoryRoadOrCarriagewayOrLaneUsage

Super-types:	TypeOfRegulation < **MandatoryRoadOrCarriagewayOrLaneUsage** (by extension)
Sub-types:	None

Name	MandatoryRoadOrCarriagewayOrLaneUsage
Abstract	no
Documentation	This class describes a regulation where the use of a road or carriageway or lane is mandatory for specific vehicle types.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:exclusive> com:Boolean </tro:exclusive> [0..1] ?
   <tro:respectMandatoryTraffic> com:Boolean </tro:respectMandatoryTraffic> [0..1] ?
   <tro:segregatedLanes> com:Boolean </tro:segregatedLanes> [0..1] ?
   <tro:contraFlowLane> com:Boolean </tro:contraFlowLane> [0..1] ?
```

```
   <tro:otherObligation> com:MultilingualString </tro:otherObligation> [0..1] ?
   <tro:_mandatoryRoadOrCarriagewayOrLaneUsageExtension> com:_ExtensionType
   </tro:_mandatoryRoadOrCarriagewayOrLaneUsageExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="MandatoryRoadOrCarriagewayOrLaneUsage">
   <xs:complexContent>
      <xs:extension base="tro:TypeOfRegulation">
         <xs:sequence>
            <xs:element name="exclusive" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="respectMandatoryTraffic" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="segregatedLanes" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="contraFlowLane" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="otherObligation" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
            <xs:element name="_mandatoryRoadOrCarriagewayOrLaneUsageExtension" type="com:_ExtensionType"
            minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: MinimumDistanceRestriction

Super-types:	TypeOfRegulation < **MinimumDistanceRestriction** (by extension)
Sub-types:	None

Name	MinimumDistanceRestriction
Abstract	no
Documentation	Driving of vehicles more than x metres apart prohibited.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:value> com:MetresAsFloat </tro:value> [1] ?
   <tro:_minimumDistanceRestrictionExtension> com:_ExtensionType </tro:_minimumDistanceRestrictionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="MinimumDistanceRestriction">
   <xs:complexContent>
      <xs:extension base="tro:TypeOfRegulation">
         <xs:sequence>
            <xs:element name="value" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_minimumDistanceRestrictionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: NonVehicularRoadUserCondition

Super-types:	Condition < **NonVehicularRoadUserCondition** (by extension)
Sub-types:	None

Name	NonVehicularRoadUserCondition
Abstract	no
Documentation	Conditions for non vehicular road users.

XML Instance Representation

```
<...>
   <tro:negate> com:Boolean </tro:negate> [0..1] ?
   <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
   <tro:_conditionExtension> com:_ExtensionType </tro:_conditionExtension> [0..1]
   <tro:nonVehicularRoadUser> tro:_NonVehicularRoadUserTypeEnum </tro:nonVehicularRoadUser> [1] ?
   <tro:_nonVehicularRoadUserConditionExtension> com:_ExtensionType </tro:_nonVehicularRoadUserConditionExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NonVehicularRoadUserCondition">
   <xs:complexContent>
      <xs:extension base="tro:Condition">
         <xs:sequence>
            <xs:element name="nonVehicularRoadUser" type="tro:_NonVehicularRoadUserTypeEnum" minOccurs="1"
            maxOccurs="1"/>
            <xs:element name="_nonVehicularRoadUserConditionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OccupantCondition

Super-types:	Condition < **OccupantCondition** (by extension)
Sub-types:	None

Name	OccupantCondition
Abstract	no
Documentation	Conditions for the occupants of a vehicle.

XML Instance Representation

```
<...>
   <tro:negate> com:Boolean </tro:negate> [0..1] ?
   <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
   <tro:_conditionExtension> com:_ExtensionType </tro:_conditionExtension> [0..1]
   <tro:disabledWithPermit> com:Boolean </tro:disabledWithPermit> [0..1] ?
   <tro:numberOfOccupants> com:NonNegativeInteger </tro:numberOfOccupants> [0..1] ?
   <tro:_occupantConditionExtension> com:_ExtensionType </tro:_occupantConditionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OccupantCondition">
   <xs:complexContent>
      <xs:extension base="tro:Condition">
         <xs:sequence>
            <xs:element name="disabledWithPermit" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="numberOfOccupants" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
            <xs:element name="_occupantConditionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OvertakingBan

Super-types:	TypeOfRegulation < **OvertakingBan** (by extension)
Sub-types:	None

Name	OvertakingBan
Abstract	no
Documentation	No overtaking.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:_overtakingBanExtension> com:_ExtensionType </tro:_overtakingBanExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OvertakingBan">
   <xs:complexContent>
      <xs:extension base="tro:TypeOfRegulation">
         <xs:sequence>
            <xs:element name="_overtakingBanExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: PermitCondition

Super-types:	Condition < **PermitCondition** (by extension)
Sub-types:	None

Name	PermitCondition
Abstract	no
Documentation	Condition for which a permit is required for vehicles with certain characteristics. Sometimes restricted to specific locations.

XML Instance Representation

```
<...>
   <tro:negate> com:Boolean </tro:negate> [0..1] ?
   <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
   <tro:_conditionExtension> com:_ExtensionType </tro:_conditionExtension> [0..1]
   <tro:whereToApplyForPermit> com:Url </tro:whereToApplyForPermit> [0..1] ?
   <tro:locationRelatedPermit> com:Boolean </tro:locationRelatedPermit> [0..1] ?
   <tro:maxDurationOfPermit> tro:Duration </tro:maxDurationOfPermit> [0..1] ?
   <tro:whereToCallForPermit> com:String </tro:whereToCallForPermit> [0..1] ?
   <tro:permitSubjectToFee> tro:PermitSubjectToFee </tro:permitSubjectToFee> [0..1]
   <tro:_permitConditionExtension> com:_ExtensionType </tro:_permitConditionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PermitCondition">
   <xs:complexContent>
```

```
    <xs:extension base="tro:Condition">
      <xs:sequence>
        <xs:element name="whereToApplyForPermit" type="com:Url" minOccurs="0" maxOccurs="1"/>
        <xs:element name="locationRelatedPermit" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
        <xs:element name="maxDurationOfPermit" type="tro:Duration" minOccurs="0" maxOccurs="1"/>
        <xs:element name="whereToCallForPermit" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="permitSubjectToFee" type="tro:PermitSubjectToFee" minOccurs="0"/>
        <xs:element name="_permitConditionExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: PermitSubjectToFee

Super-types:	None
Sub-types:	None

Name	PermitSubjectToFee
Abstract	no
Documentation	Access permitted when fee is paid.

XML Instance Representation

```
<...>
  <tro:amountDue> tro:AmountOfMoney </tro:amountDue> [0..1] ?
  <tro:maximumAccessDuration> tro:Duration </tro:maximumAccessDuration> [0..1] ?
  <tro:minimumTimeToNextEntry> tro:Duration </tro:minimumTimeToNextEntry> [0..1] ?
  <tro:paymentInformation> com:Url </tro:paymentInformation> [0..1] ?
  <tro:_permitSubjectToFeeExtension> com:_ExtensionType </tro:_permitSubjectToFeeExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PermitSubjectToFee">
  <xs:sequence>
    <xs:element name="amountDue" type="tro:AmountOfMoney" minOccurs="0" maxOccurs="1"/>
    <xs:element name="maximumAccessDuration" type="tro:Duration" minOccurs="0" maxOccurs="1"/>
    <xs:element name="minimumTimeToNextEntry" type="tro:Duration" minOccurs="0" maxOccurs="1"/>
    <xs:element name="paymentInformation" type="com:Url" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_permitSubjectToFeeExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: PlannedDynamicTrafficRegulation

Super-types:	None
Sub-types:	• AutomatedTrafficManagement (by extension) • TrafficSignals (by extension)

Name	PlannedDynamicTrafficRegulation
Abstract	no
Documentation	A traffic regulation, often dynamically changeable, implemented by means of an automated or controllable technical system.

XML Instance Representation

```
<...>
  <tro:issuingAuthority> com:MultilingualString </tro:issuingAuthority> [0..1] ?
  <tro:_plannedDynamicTrafficRegulationExtension> com:_ExtensionType
  </tro:_plannedDynamicTrafficRegulationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PlannedDynamicTrafficRegulation">
  <xs:sequence>
    <xs:element name="issuingAuthority" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_plannedDynamicTrafficRegulationExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: PlannedDynamicTrafficRegulations

Super-types:	None
Sub-types:	None

Name	PlannedDynamicTrafficRegulations
Abstract	no
Documentation	This class describes traffic regulations, often dynamically changeable, implemented by means of an automated or controllable technical system.

XML Instance Representation

```
<...>
   <tro:plannedDynamicTrafficRegulation> tro:PlannedDynamicTrafficRegulation </tro:plannedDynamicTrafficRegulation>
   [1..*]
   <tro:_plannedDynamicTrafficRegulationsExtension> com:_ExtensionType
   </tro:_plannedDynamicTrafficRegulationsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PlannedDynamicTrafficRegulations">
   <xs:sequence>
      <xs:element name="plannedDynamicTrafficRegulation" type="tro:PlannedDynamicTrafficRegulation"
      maxOccurs="unbounded"/>
      <xs:element name="_plannedDynamicTrafficRegulationsExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: PriorityRule

Super-types:	TypeOfRegulation < **PriorityRule** (by extension)
Sub-types:	None

Name	PriorityRule
Abstract	no
Documentation	Class for priority rules.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:priorityRuleType> tro:_PriorityRuleTypeEnum </tro:priorityRuleType> [1..*] ?
   <tro:respectBicycle> com:Boolean </tro:respectBicycle> [0..1] ?
   <tro:_priorityRuleExtension> com:_ExtensionType </tro:_priorityRuleExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PriorityRule">
   <xs:complexContent>
      <xs:extension base="tro:TypeOfRegulation">
         <xs:sequence>
            <xs:element name="priorityRuleType" type="tro:_PriorityRuleTypeEnum" minOccurs="1" maxOccurs="unbounded"/>
            <xs:element name="respectBicycle" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="_priorityRuleExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Rerouting

Super-types:	TypeOfRegulation < **Rerouting** (by extension)
Sub-types:	None

Name	Rerouting
Abstract	no
Documentation	Class for Rerouting.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:_reroutingExtension> com:_ExtensionType </tro:_reroutingExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Rerouting">
   <xs:complexContent>
      <xs:extension base="tro:TypeOfRegulation">
         <xs:sequence>
            <xs:element name="_reroutingExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: RoadCondition

Super-types:	Condition < **RoadCondition** (by extension)
Sub-types:	None

Name	RoadCondition
Abstract	no
Documentation	Specification of road types (e.g. motorway, express way, etc.).

XML Instance Representation

```
<...>
   <tro:negate> com:Boolean </tro:negate> [0..1] ?
   <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
   <tro:_conditionExtension> com:_ExtensionType </tro:_conditionExtension> [0..1]
   <tro:roadType> tro:_RoadTypeEnum </tro:roadType> [1] ?
   <tro:_roadConditionExtension> com:_ExtensionType </tro:_roadConditionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RoadCondition">
   <xs:complexContent>
      <xs:extension base="tro:Condition">
         <xs:sequence>
            <xs:element name="roadType" type="tro:_RoadTypeEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_roadConditionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: RoadWarning

Super-types:	TypeOfRegulation < Warning (by extension) < **RoadWarning** (by extension)
Sub-types:	None

Name	RoadWarning
Abstract	no
Documentation	A warning concerning the road or the conditions of the road.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:_warningExtension> com:_ExtensionType </tro:_warningExtension> [0..1]
   <tro:roadWarningType> tro:_RoadWarningTypeEnum </tro:roadWarningType> [1] ?
   <tro:_roadWarningExtension> com:_ExtensionType </tro:_roadWarningExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RoadWarning">
   <xs:complexContent>
      <xs:extension base="tro:Warning">
         <xs:sequence>
            <xs:element name="roadWarningType" type="tro:_RoadWarningTypeEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_roadWarningExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: RushHourLaneRestriction

Super-types:	TypeOfRegulation < **RushHourLaneRestriction** (by extension)
Sub-types:	None

Name	RushHourLaneRestriction
Abstract	no
Documentation	Class for rush hour lane restrictions.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:clearRushHourLane> com:Boolean </tro:clearRushHourLane> [0..1] ?
   <tro:rushHourLaneOpen> com:Boolean </tro:rushHourLaneOpen> [0..1] ?
   <tro:_rushHourLaneRestrictionExtension> com:_ExtensionType </tro:_rushHourLaneRestrictionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RushHourLaneRestriction">
   <xs:complexContent>
      <xs:extension base="tro:TypeOfRegulation">
         <xs:sequence>
            <xs:element name="clearRushHourLane" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="rushHourLaneOpen" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="_rushHourLaneRestrictionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Speed

Super-types:	None
Sub-types:	None

Name	Speed
Abstract	no
Documentation	Class for the specification of a speed.

XML Instance Representation

```
<...>
   <tro:numericValue> com:Decimal </tro:numericValue> [1] ?
   <tro:unitOfMeasure> tro:_UnitOfSpeedEnum </tro:unitOfMeasure> [1] ?
   <tro:_speedExtension> com:_ExtensionType </tro:_speedExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Speed">
   <xs:sequence>
      <xs:element name="numericValue" type="com:Decimal" minOccurs="1" maxOccurs="1"/>
      <xs:element name="unitOfMeasure" type="tro:_UnitOfSpeedEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_speedExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: SpeedLimit

Super-types:	TypeOfRegulation < **SpeedLimit** (by extension)
Sub-types:	None

Name	SpeedLimit
Abstract	no
Documentation	An upper limit of the permissible speed.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:weatherRelatedRoadConditionType> com:_WeatherRelatedRoadConditionTypeEnum
   </tro:weatherRelatedRoadConditionType> [0..*] ?
   <tro:walkingSpeed> com:Boolean </tro:walkingSpeed> [0..1] ?
   <tro:minValue> tro:Speed </tro:minValue> [0..1] ?
   <tro:maxValue> tro:Speed </tro:maxValue> [0..1] ?
   <tro:advisorySpeed> tro:Speed </tro:advisorySpeed> [0..1] ?
   <tro:_speedLimitExtension> com:_ExtensionType </tro:_speedLimitExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SpeedLimit">
   <xs:complexContent>
      <xs:extension base="tro:TypeOfRegulation">
         <xs:sequence>
            <xs:element name="weatherRelatedRoadConditionType" type="com:_WeatherRelatedRoadConditionTypeEnum"
            minOccurs="0" maxOccurs="unbounded"/>
            <xs:element name="walkingSpeed" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="minValue" type="tro:Speed" minOccurs="0"/>
            <xs:element name="maxValue" type="tro:Speed" minOccurs="0"/>
            <xs:element name="advisorySpeed" type="tro:Speed" minOccurs="0"/>
            <xs:element name="_speedLimitExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: StandingOrParkingRestriction

Super-types:	TypeOfRegulation < **StandingOrParkingRestriction** (by extension)
Sub-types:	None

Name	StandingOrParkingRestriction
Abstract	no
Documentation	Standing and/or parking restrictions.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:standingOrParkingRestrictionType> tro:_StandingOrParkingRestricitonTypeEnum
   </tro:standingOrParkingRestrictionType> [1] ?
   <tro:vergeOrFootwayAlso> com:Boolean </tro:vergeOrFootwayAlso> [0..1] ?
   <tro:vergeOrFootwayOnly> com:Boolean </tro:vergeOrFootwayOnly> [0..1] ?
   <tro:permittedStandingTime> tro:Duration </tro:permittedStandingTime> [0..1] ?
   <tro:permittedParkingTime> tro:Duration </tro:permittedParkingTime> [0..1] ?
   <tro:paidParking> com:Boolean </tro:paidParking> [0..1] ?
   <tro:_standingOrParkingRestrictionExtension> com:_ExtensionType </tro:_standingOrParkingRestrictionExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="StandingOrParkingRestriction">
   <xs:complexContent>
      <xs:extension base="tro:TypeOfRegulation">
         <xs:sequence>
            <xs:element name="standingOrParkingRestrictionType" type="tro:_StandingOrParkingRestricitonTypeEnum"
            minOccurs="1" maxOccurs="1"/>
            <xs:element name="vergeOrFootwayAlso" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="vergeOrFootwayOnly" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="permittedStandingTime" type="tro:Duration" minOccurs="0" maxOccurs="1"/>
            <xs:element name="permittedParkingTime" type="tro:Duration" minOccurs="0" maxOccurs="1"/>
            <xs:element name="paidParking" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="_standingOrParkingRestrictionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: SteepHill

Super-types:	TypeOfRegulation < Warning (by extension) < **SteepHill** (by extension)
Sub-types:	None

Name	SteepHill
Abstract	no
Documentation	A steep hill ahead.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:_warningExtension> com:_ExtensionType </tro:_warningExtension> [0..1]
   <tro:roadGradientValue> com:Percentage </tro:roadGradientValue> [1] ?
   <tro:steepHillDirectionType> tro:_SteepHillDirectionTypeEnum </tro:steepHillDirectionType> [1] ?
   <tro:_steepHillExtension> com:_ExtensionType </tro:_steepHillExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SteepHill">
   <xs:complexContent>
      <xs:extension base="tro:Warning">
         <xs:sequence>
            <xs:element name="roadGradientValue" type="com:Percentage" minOccurs="1" maxOccurs="1"/>
            <xs:element name="steepHillDirectionType" type="tro:_SteepHillDirectionTypeEnum" minOccurs="1"
            maxOccurs="1"/>
            <xs:element name="_steepHillExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TrafficAhead

Super-types:	TypeOfRegulation < Warning (by extension) < **TrafficAhead** (by extension)
Sub-types:	None

Name	TrafficAhead
Abstract	no
Documentation	A warning of traffic ahead.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:_warningExtension> com:_ExtensionType </tro:_warningExtension> [0..1]
   <tro:trafficAheadType> tro:_TrafficAheadTypeEnum </tro:trafficAheadType> [1] ?
   <tro:_trafficAheadExtension> com:_ExtensionType </tro:_trafficAheadExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficAhead">
   <xs:complexContent>
      <xs:extension base="tro:Warning">
         <xs:sequence>
            <xs:element name="trafficAheadType" type="tro:_TrafficAheadTypeEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_trafficAheadExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TrafficRegulation

Super-types:	None

Sub-types:	None

Name	TrafficRegulation
Abstract	no
Documentation	Legal agreement or order that restricts or prohibits the use of the highway network.

XML Instance Representation

```
<...>
   <tro:status> tro:_TrafficRegulationStatusEnum </tro:status> [0..1] ?
   <tro:typeOfRegulation> tro:TypeOfRegulation </tro:typeOfRegulation> [1..*] ?
   <tro:condition> tro:Condition </tro:condition> [0..1] ?
   <tro:_trafficRegulationExtension> com:_ExtensionType </tro:_trafficRegulationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficRegulation">
   <xs:sequence>
      <xs:element name="status" type="tro:_TrafficRegulationStatusEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="typeOfRegulation" type="tro:TypeOfRegulation" maxOccurs="unbounded"/>
      <xs:element name="condition" type="tro:Condition" minOccurs="0"/>
      <xs:element name="_trafficRegulationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: TrafficRegulationOrder

Super-types:	None
Sub-types:	None

Name	TrafficRegulationOrder
Abstract	no
Documentation	A legally recognised document or publication issued to enact a specific traffic regulation or regulations by a competent authority.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <tro:description> com:MultilingualString </tro:description> [0..1] ?
   <tro:issuingAuthority> com:MultilingualString </tro:issuingAuthority> [1] ?
   <tro:reason> tro:_ReasonForRegulationEnum </tro:reason> [0..*] ?
   <tro:regulationId> com:String </tro:regulationId> [1] ?
   <tro:status> tro:_TrafficRegulationOrderStatusEnum </tro:status> [1] ?
   <tro:implementedValidity> com:Validity </tro:implementedValidity> [0..1] ?
   <tro:validityByOrder> com:Validity </tro:validityByOrder> [0..1] ?
   <tro:implementedLocation> loc:LocationReference </tro:implementedLocation> [0..1] ?
   <tro:locationByOrder> loc:LocationReference </tro:locationByOrder> [0..1] ?
   <tro:trafficRegulation> tro:TrafficRegulation </tro:trafficRegulation> [1..*]
   <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
   <tro:_trafficRegulationOrderExtension> com:_ExtensionType </tro:_trafficRegulationOrderExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficRegulationOrder">
   <xs:sequence>
      <xs:element name="description" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="issuingAuthority" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
      <xs:element name="reason" type="tro:_ReasonForRegulationEnum" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="regulationId" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="status" type="tro:_TrafficRegulationOrderStatusEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="implementedValidity" type="com:Validity" minOccurs="0"/>
      <xs:element name="validityByOrder" type="com:Validity" minOccurs="0"/>
      <xs:element name="implementedLocation" type="loc:LocationReference" minOccurs="0"/>
      <xs:element name="locationByOrder" type="loc:LocationReference" minOccurs="0"/>
      <xs:element name="trafficRegulation" type="tro:TrafficRegulation" maxOccurs="unbounded"/>
      <xs:element name="legalBasis" type="tro:LegalBasis" minOccurs="0"/>
      <xs:element name="_trafficRegulationOrderExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
   <xs:attribute name="id" type="xs:string" use="required"/>
   <xs:attribute name="version" type="xs:string" use="required"/>
</xs:complexType>
```

top

Complex Type: TrafficRegulationPublication

Super-types:	com:PayloadPublication < **TrafficRegulationPublication** (by extension)
Sub-types:	None

Name	TrafficRegulationPublication
Abstract	no
Documentation	Publication of traffic regulations.

XML Instance Representation

```
<...
 id="xs:string [1]">
```

```
<!-- 'com:PayloadPublication' super type was not found in this schema. Some elements and attributes may be
missing. -->
<tro:trafficRegulationsFromCompetentAuthorities> tro:TrafficRegulationsFromCompetentAuthorities
</tro:trafficRegulationsFromCompetentAuthorities> [0..1]
<tro:trafficRegulationsByAuthorisedActors> tro:TrafficRegulationsByAuthorisedActors
</tro:trafficRegulationsByAuthorisedActors> [0..1]
<tro:adHocTrafficRegulations> tro:AdHocTrafficRegulations </tro:adHocTrafficRegulations> [0..1]
<tro:plannedDynamicTrafficRegulations> tro:PlannedDynamicTrafficRegulations
</tro:plannedDynamicTrafficRegulations> [0..1]
<tro:_trafficRegulationPublicationExtension> com:_ExtensionType </tro:_trafficRegulationPublicationExtension>
[0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficRegulationPublication">
  <xs:complexContent>
    <xs:extension base="com:PayloadPublication">
      <xs:sequence>
        <xs:element name="trafficRegulationsFromCompetentAuthorities"
        type="tro:TrafficRegulationsFromCompetentAuthorities" minOccurs="0"/>
        <xs:element name="trafficRegulationsByAuthorisedActors" type="tro:TrafficRegulationsByAuthorisedActors"
        minOccurs="0"/>
        <xs:element name="adHocTrafficRegulations" type="tro:AdHocTrafficRegulations" minOccurs="0"/>
        <xs:element name="plannedDynamicTrafficRegulations" type="tro:PlannedDynamicTrafficRegulations"
        minOccurs="0"/>
        <xs:element name="_trafficRegulationPublicationExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
      <xs:attribute name="id" type="xs:string" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TrafficRegulationsByAuthorisedActors

Super-types:	None
Sub-types:	None

Name	TrafficRegulationsByAuthorisedActors
Abstract	no
Documentation	Traffic regulations from an actor that has received a general permission from a competent authority.

XML Instance Representation

```
<...>
  <tro:activatedRegulation> tro:ActivatedRegulation </tro:activatedRegulation> [1..*]
  <tro:_trafficRegulationsByAuthorisedActorsExtension> com:_ExtensionType
  </tro:_trafficRegulationsByAuthorisedActorsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficRegulationsByAuthorisedActors">
  <xs:sequence>
    <xs:element name="activatedRegulation" type="tro:ActivatedRegulation" maxOccurs="unbounded"/>
    <xs:element name="_trafficRegulationsByAuthorisedActorsExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: TrafficRegulationsFromCompetentAuthorities

Super-types:	None
Sub-types:	None

Name	TrafficRegulationsFromCompetentAuthorities
Abstract	no
Documentation	A traffic regulation ordered by a competent authority.

XML Instance Representation

```
<...>
  <tro:trafficRegulationOrder> tro:TrafficRegulationOrder </tro:trafficRegulationOrder> [1..*]
  <tro:_trafficRegulationsFromCompetentAuthoritiesExtension> com:_ExtensionType
  </tro:_trafficRegulationsFromCompetentAuthoritiesExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficRegulationsFromCompetentAuthorities">
  <xs:sequence>
    <xs:element name="trafficRegulationOrder" type="tro:TrafficRegulationOrder" maxOccurs="unbounded"/>
    <xs:element name="_trafficRegulationsFromCompetentAuthoritiesExtension" type="com:_ExtensionType"
    minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: TrafficSignals

Super-types:	PlannedDynamicTrafficRegulation < **TrafficSignals** (by extension)
Sub-types:	None

Name	TrafficSignals
Abstract	no
Documentation	Signalling devices positioned at road intersections, pedestrian crossings, and other locations to control flows of traffic.

XML Instance Representation

```
<...>
   <tro:issuingAuthority> com:MultilingualString </tro:issuingAuthority> [0..1] ?
   <tro:_plannedDynamicTrafficRegulationExtension> com:_ExtensionType
   </tro:_plannedDynamicTrafficRegulationExtension> [0..1]
   <tro:signalPhaseAndTimingReference> com:Reference </tro:signalPhaseAndTimingReference> [1] ?
   <tro:_trafficSignalsExtension> com:_ExtensionType </tro:_trafficSignalsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficSignals">
   <xs:complexContent>
      <xs:extension base="tro:PlannedDynamicTrafficRegulation">
         <xs:sequence>
            <xs:element name="signalPhaseAndTimingReference" type="com:Reference" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_trafficSignalsExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TypeOfRegulation

Super-types:	None

Sub-types:	• AccessRestriction (by extension)
	• AlternateRoadOrCarriagewayOrLaneLayout (by extension)
	• DirectionRestriction (by extension)
	• MandatoryRoadOrCarriagewayOrLaneUsage (by extension)
	• MinimumDistanceRestriction (by extension)
	• OvertakingBan (by extension)
	• PriorityRule (by extension)
	• Rerouting (by extension)
	• RushHourLaneRestriction (by extension)
	• SpeedLimit (by extension)
	• StandingOrParkingRestriction (by extension)
	• Warning (by extension)
	  ◦ AmbientWarnings (by extension)
	  ◦ RoadWarning (by extension)
	  ◦ SteepHill (by extension)
	  ◦ TrafficAhead (by extension)

Name	TypeOfRegulation
Abstract	yes
Documentation	The abstract base class of all types of traffic restrictions.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TypeOfRegulation" abstract="true">
   <xs:sequence>
      <xs:element name="_typeOfRegulationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: ValidityCondition

Super-types:	Condition < **ValidityCondition** (by extension)
Sub-types:	None

Name	ValidityCondition
Abstract	no
Documentation	Conditions for time validity of a traffic regulation.

XML Instance Representation

```
<...>
   <tro:negate> com:Boolean </tro:negate> [0..1] ?
   <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
   <tro:_conditionExtension> com:_ExtensionType </tro:_conditionExtension> [0..1]
   <tro:implementedValidity> com:Validity </tro:implementedValidity> [0..1] ?
   <tro:validityByOrder> com:Validity </tro:validityByOrder> [0..1] ?
   <tro:_validityConditionExtension> com:_ExtensionType </tro:_validityConditionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ValidityCondition">
   <xs:complexContent>
      <xs:extension base="tro:Condition">
         <xs:sequence>
            <xs:element name="implementedValidity" type="com:Validity" minOccurs="0"/>
            <xs:element name="validityByOrder" type="com:Validity" minOccurs="0"/>
            <xs:element name="_validityConditionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: VehicleCondition

Super-types:	Condition < **VehicleCondition** (by extension)
Sub-types:	None

Name	VehicleCondition
Abstract	no
Documentation	Conditions for a vehicle.

XML Instance Representation

```
<...>
   <tro:negate> com:Boolean </tro:negate> [0..1] ?
   <tro:legalBasis> tro:LegalBasis </tro:legalBasis> [0..1] ?
   <tro:_conditionExtension> com:_ExtensionType </tro:_conditionExtension> [0..1]
   <tro:vehicleCharacteristics> com:VehicleCharacteristics </tro:vehicleCharacteristics> [1] ?
   <tro:_vehicleConditionExtension> com:_ExtensionType </tro:_vehicleConditionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VehicleCondition">
   <xs:complexContent>
      <xs:extension base="tro:Condition">
         <xs:sequence>
            <xs:element name="vehicleCharacteristics" type="com:VehicleCharacteristics"/>
            <xs:element name="_vehicleConditionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Warning

Super-types:	TypeOfRegulation < **Warning** (by extension)
Sub-types:	• AmbientWarnings (by extension) • RoadWarning (by extension) • SteepHill (by extension) • TrafficAhead (by extension)

Name	Warning
Abstract	yes
Documentation	The abstract base class of all types of traffic warnings.

XML Instance Representation

```
<...>
   <tro:_typeOfRegulationExtension> com:_ExtensionType </tro:_typeOfRegulationExtension> [0..1]
   <tro:_warningExtension> com:_ExtensionType </tro:_warningExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Warning" abstract="true">
   <xs:complexContent>
      <xs:extension base="tro:TypeOfRegulation">
         <xs:sequence>
            <xs:element name="_warningExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _AccessConditionTypeEnum

Super-types:	xs:string < AccessConditionTypeEnum (by restriction) < **_AccessConditionTypeEnum** (by extension)
Sub-types:	None

Name	_AccessConditionTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   tro:AccessConditionTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_AccessConditionTypeEnum">
   <xs:simpleContent>
      <xs:extension base="tro:AccessConditionTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _AccessRestrictionTypeEnum

Super-types:	xs:string < AccessRestrictionTypeEnum (by restriction) < **_AccessRestrictionTypeEnum** (by extension)
Sub-types:	None

Name	_AccessRestrictionTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   tro:AccessRestrictionTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_AccessRestrictionTypeEnum">
   <xs:simpleContent>
      <xs:extension base="tro:AccessRestrictionTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _AmbientWarningTypeEnum

Super-types:	xs:string < AmbientWarningTypeEnum (by restriction) < **_AmbientWarningTypeEnum** (by extension)
Sub-types:	None

Name	_AmbientWarningTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   tro:AmbientWarningTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_AmbientWarningTypeEnum">
   <xs:simpleContent>
      <xs:extension base="tro:AmbientWarningTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _ConditionOperator

Super-types:	xs:string < ConditionOperator (by restriction) < **_ConditionOperator** (by extension)
Sub-types:	None

Name	_ConditionOperator
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   tro:ConditionOperator
</...>
```

Schema Component Representation

```
<xs:complexType name="_ConditionOperator">
   <xs:simpleContent>
      <xs:extension base="tro:ConditionOperator">
```

```
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DirectionRestrictionTypeEnum

Super-types:	xs:string < DirectionRestrictionTypeEnum (by restriction) < **_DirectionRestrictionTypeEnum** (by extension)
Sub-types:	None

Name	_DirectionRestrictionTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:DirectionRestrictionTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_DirectionRestrictionTypeEnum">
  <xs:simpleContent>
    <xs:extension base="tro:DirectionRestrictionTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DriverCharacteristicsTypeEnum

Super-types:	xs:string < DriverCharacteristicsTypeEnum (by restriction) < **_DriverCharacteristicsTypeEnum** (by extension)
Sub-types:	None

Name	_DriverCharacteristicsTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:DriverCharacteristicsTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_DriverCharacteristicsTypeEnum">
  <xs:simpleContent>
    <xs:extension base="tro:DriverCharacteristicsTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _LicenseCharacteristicsEnum

Super-types:	xs:string < LicenseCharacteristicsEnum (by restriction) < **_LicenseCharacteristicsEnum** (by extension)
Sub-types:	None

Name	_LicenseCharacteristicsEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:LicenseCharacteristicsEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_LicenseCharacteristicsEnum">
  <xs:simpleContent>
    <xs:extension base="tro:LicenseCharacteristicsEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _NonVehicularRoadUserTypeEnum

Super-types:	xs:string < NonVehicularRoadUserTypeEnum (by restriction) < **_NonVehicularRoadUserTypeEnum** (by extension)

Sub-types:	None

Name _NonVehicularRoadUserTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:NonVehicularRoadUserTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_NonVehicularRoadUserTypeEnum">
  <xs:simpleContent>
    <xs:extension base="tro:NonVehicularRoadUserTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _PriorityRuleTypeEnum

Super-types:	xs:string < PriorityRuleTypeEnum (by restriction) < **_PriorityRuleTypeEnum** (by extension)
Sub-types:	None

Name _PriorityRuleTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:PriorityRuleTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_PriorityRuleTypeEnum">
  <xs:simpleContent>
    <xs:extension base="tro:PriorityRuleTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _ReasonForRegulationEnum

Super-types:	xs:string < ReasonForRegulationEnum (by restriction) < **_ReasonForRegulationEnum** (by extension)
Sub-types:	None

Name _ReasonForRegulationEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:ReasonForRegulationEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_ReasonForRegulationEnum">
  <xs:simpleContent>
    <xs:extension base="tro:ReasonForRegulationEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _RoadOrCarriagewayOrLaneLayoutType

Super-types:	xs:string < RoadOrCarriagewayOrLaneLayoutType (by restriction) < **_RoadOrCarriagewayOrLaneLayoutType** (by extension)
Sub-types:	None

Name _RoadOrCarriagewayOrLaneLayoutType

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
```

```
   tro:RoadOrCarriagewayOrLaneLayoutType
</...>
```

Schema Component Representation

```
<xs:complexType name="_RoadOrCarriagewayOrLaneLayoutType">
   <xs:simpleContent>
      <xs:extension base="tro:RoadOrCarriagewayOrLaneLayoutType">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _RoadTypeEnum

Super-types:	xs:string < RoadTypeEnum (by restriction) < **_RoadTypeEnum** (by extension)
Sub-types:	None

Name	_RoadTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   tro:RoadTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_RoadTypeEnum">
   <xs:simpleContent>
      <xs:extension base="tro:RoadTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _RoadWarningTypeEnum

Super-types:	xs:string < RoadWarningTypeEnum (by restriction) < **_RoadWarningTypeEnum** (by extension)
Sub-types:	None

Name	_RoadWarningTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   tro:RoadWarningTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_RoadWarningTypeEnum">
   <xs:simpleContent>
      <xs:extension base="tro:RoadWarningTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _StandingOrParkingRestricitonTypeEnum

Super-types:	xs:string < StandingOrParkingRestricitonTypeEnum (by restriction) < **_StandingOrParkingRestricitonTypeEnum** (by extension)
Sub-types:	None

Name	_StandingOrParkingRestricitonTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   tro:StandingOrParkingRestricitonTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_StandingOrParkingRestricitonTypeEnum">
   <xs:simpleContent>
      <xs:extension base="tro:StandingOrParkingRestricitonTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
```

```
</xs:complexType>
```

top

Complex Type: _SteepHillDirectionTypeEnum

Super-types:	xs:string < SteepHillDirectionTypeEnum (by restriction) < **_SteepHillDirectionTypeEnum** (by extension)
Sub-types:	None

Name	_SteepHillDirectionTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:SteepHillDirectionTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_SteepHillDirectionTypeEnum">
  <xs:simpleContent>
    <xs:extension base="tro:SteepHillDirectionTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TrafficAheadTypeEnum

Super-types:	xs:string < TrafficAheadTypeEnum (by restriction) < **_TrafficAheadTypeEnum** (by extension)
Sub-types:	None

Name	_TrafficAheadTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:TrafficAheadTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TrafficAheadTypeEnum">
  <xs:simpleContent>
    <xs:extension base="tro:TrafficAheadTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TrafficRegulationInstallerTypeEnum

Super-types:	xs:string < TrafficRegulationInstallerTypeEnum (by restriction) < **_TrafficRegulationInstallerTypeEnum** (by extension)
Sub-types:	None

Name	_TrafficRegulationInstallerTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:TrafficRegulationInstallerTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TrafficRegulationInstallerTypeEnum">
  <xs:simpleContent>
    <xs:extension base="tro:TrafficRegulationInstallerTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TrafficRegulationOrderStatusEnum

Super-types:	xs:string < TrafficRegulationOrderStatusEnum (by restriction) < **_TrafficRegulationOrderStatusEnum** (by extension)
Sub-types:	None

Name _TrafficRegulationOrderStatusEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:TrafficRegulationOrderStatusEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TrafficRegulationOrderStatusEnum">
   <xs:simpleContent>
      <xs:extension base="tro:TrafficRegulationOrderStatusEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TrafficRegulationStatusEnum

Super-types: xs:string < TrafficRegulationStatusEnum (by restriction) < **_TrafficRegulationStatusEnum** (by extension)

Sub-types: None

Name _TrafficRegulationStatusEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:TrafficRegulationStatusEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_TrafficRegulationStatusEnum">
   <xs:simpleContent>
      <xs:extension base="tro:TrafficRegulationStatusEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _UnitOfSpeedEnum

Super-types: xs:string < UnitOfSpeedEnum (by restriction) < **_UnitOfSpeedEnum** (by extension)

Sub-types: None

Name _UnitOfSpeedEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
  tro:UnitOfSpeedEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_UnitOfSpeedEnum">
   <xs:simpleContent>
      <xs:extension base="tro:UnitOfSpeedEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Simple Type: AccessConditionTypeEnum

Super-types: xs:string < **AccessConditionTypeEnum** (by restriction)

Sub-types:

- _AccessConditionTypeEnum (by extension)

Name AccessConditionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'accessOnly'|'destinationTraffic'|'loadingAndUnloading'|'passengerLoadingAndUnloading'|'sourceAndDestinationTraffic'|'sourceTraffic'|'throughTraffic

Documentation Access is only permitted under certain conditions.

Schema Component Representation

```
<xs:simpleType name="AccessConditionTypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="accessOnly"/>
      <xs:enumeration value="destinationTraffic"/>
      <xs:enumeration value="loadingAndUnloading"/>
      <xs:enumeration value="passengerLoadingAndUnloading"/>
      <xs:enumeration value="sourceAndDestinationTraffic"/>
      <xs:enumeration value="sourceTraffic"/>
      <xs:enumeration value="throughTraffic"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: AccessRestrictionTypeEnum

Super-types:	xs:string < **AccessRestrictionTypeEnum** (by restriction)
Sub-types:	• _AccessRestrictionTypeEnum (by extension)

Name AccessRestrictionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'noEntry'|'noUseOfAudibleWarningDevices'|'noPassingWithoutStopping'|'_extended'}

Documentation Types of access restrictions.

Schema Component Representation

```
<xs:simpleType name="AccessRestrictionTypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="noEntry"/>
      <xs:enumeration value="noUseOfAudibleWarningDevices"/>
      <xs:enumeration value="noPassingWithoutStopping"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: AmbientWarningTypeEnum

Super-types:	xs:string < **AmbientWarningTypeEnum** (by restriction)
Sub-types:	• _AmbientWarningTypeEnum (by extension)

Name AmbientWarningTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'accompaniedHorsesCrossing'|'airfield'|'cattle'|'fallingRocks'|'looseGravel'|'migratoryToadCrossing'|'otherDanger'|'pedestrianCrossing'|'quaysideOrRi

Documentation Types of environmental dangers.

Schema Component Representation

```
<xs:simpleType name="AmbientWarningTypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="accompaniedHorsesCrossing"/>
      <xs:enumeration value="airfield"/>
      <xs:enumeration value="cattle"/>
      <xs:enumeration value="fallingRocks"/>
      <xs:enumeration value="looseGravel"/>
      <xs:enumeration value="migratoryToadCrossing"/>
      <xs:enumeration value="otherDanger"/>
      <xs:enumeration value="pedestrianCrossing"/>
      <xs:enumeration value="quaysideOrRiverBank"/>
      <xs:enumeration value="riskOfIce"/>
      <xs:enumeration value="sideWindsLeft"/>
      <xs:enumeration value="sideWindsRight"/>
      <xs:enumeration value="wildAnimalsCrossing"/>
      <xs:enumeration value="insufficientStructureGauge"/>
      <xs:enumeration value="poorVisibility"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: AmountOfMoney

Super-types:	com:Decimal < **AmountOfMoney** (by restriction)
Sub-types:	None

Name AmountOfMoney

Content

- **'Decimal' super type was not found in this schema. Its facets could not be printed out.**
- *total no. of digits* = 8

Documentation A monetary value expressed to two decimal places.

Schema Component Representation

```
<xs:simpleType name="AmountOfMoney">
  <xs:restriction base="com:Decimal">
    <xs:totalDigits value="8"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ConditionOperator

Super-types:	xs:string < **ConditionOperator** (by restriction)
Sub-types:	• _ConditionOperator (by extension)

Name ConditionOperator

Content

- Base XSD Type: string
- *value* comes from list: {'or'|'xor'|'and'|'_extended'}

Documentation The logical operator to be used in a test of conditions.

Schema Component Representation

```
<xs:simpleType name="ConditionOperator">
  <xs:restriction base="xs:string">
    <xs:enumeration value="or"/>
    <xs:enumeration value="xor"/>
    <xs:enumeration value="and"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: DirectionRestrictionTypeEnum

Super-types:	xs:string < **DirectionRestrictionTypeEnum** (by restriction)
Sub-types:	• _DirectionRestrictionTypeEnum (by extension)

Name DirectionRestrictionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'aheadOnly'|'keepLeft'|'keepRight'|'roundabout'|'straightAheadOrTurnLeft'|'straightAheadOrTurnRight'|'turnLeft'|'turnLeftAhead'|'turnLeftOrTurnRight'|

Documentation Direction to be followed.

Schema Component Representation

```
<xs:simpleType name="DirectionRestrictionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="aheadOnly"/>
    <xs:enumeration value="keepLeft"/>
    <xs:enumeration value="keepRight"/>
    <xs:enumeration value="roundabout"/>
    <xs:enumeration value="straightAheadOrTurnLeft"/>
    <xs:enumeration value="straightAheadOrTurnRight"/>
    <xs:enumeration value="turnLeft"/>
    <xs:enumeration value="turnLeftAhead"/>
    <xs:enumeration value="turnLeftOrTurnRight"/>
    <xs:enumeration value="turnRight"/>
    <xs:enumeration value="turnRightAhead"/>
    <xs:enumeration value="oneWayTraffic"/>
    <xs:enumeration value="noUTurn"/>
    <xs:enumeration value="noLeftTurn"/>
    <xs:enumeration value="noRightTurn"/>
    <xs:enumeration value="passEitherSide"/>
    <xs:enumeration value="noReversing"/>
    <xs:enumeration value="noThroughRoad"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: DriverCharacteristicsTypeEnum

Super-types:	xs:string < **DriverCharacteristicsTypeEnum** (by restriction)
Sub-types:	• _DriverCharacteristicsTypeEnum (by extension)

Name DriverCharacteristicsTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'disabledWithPermit'|'learnerdriver'|'localResident'|'_extended'}

Documentation Types of driver characteristics.

Schema Component Representation

```
<xs:simpleType name="DriverCharacteristicsTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="disabledWithPermit"/>
    <xs:enumeration value="learnerdriver"/>
    <xs:enumeration value="localResident"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: Duration

Super-types:	com:String < **Duration** (by restriction)
Sub-types:	None

Name Duration

Content

- **'String' super type was not found in this schema. Its facets could not be printed out.**

Documentation DIN ISO 8601 duration value.

Schema Component Representation

```
<xs:simpleType name="Duration">
  <xs:restriction base="com:String"/>
</xs:simpleType>
```

top

Simple Type: LicenseCharacteristicsEnum

Super-types:	xs:string < **LicenseCharacteristicsEnum** (by restriction)
Sub-types:	• _LicenseCharacteristicsEnum (by extension)

Name LicenseCharacteristicsEnum

Content

- Base XSD Type: string
- *value* comes from list: {'provisional'|'permanent'|'_extended'}

Documentation Characteristics of the drivers license.

Schema Component Representation

```
<xs:simpleType name="LicenseCharacteristicsEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="provisional"/>
    <xs:enumeration value="permanent"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: NonVehicularRoadUserTypeEnum

Super-types:	xs:string < **NonVehicularRoadUserTypeEnum** (by restriction)
Sub-types:	• _NonVehicularRoadUserTypeEnum (by extension)

Name NonVehicularRoadUserTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'cattleDrive'|'pedestrians'|'riddenOrAccompaniedHorses'|'_extended'}

Documentation Collection of non vehicular road user types.

Schema Component Representation

```
<xs:simpleType name="NonVehicularRoadUserTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="cattleDrive"/>
    <xs:enumeration value="pedestrians"/>
    <xs:enumeration value="riddenOrAccompaniedHorses"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: PriorityRuleTypeEnum

Super-types:	xs:string < **PriorityRuleTypeEnum** (by restriction)
Sub-types:	• _PriorityRuleTypeEnum (by extension)

Name PriorityRuleTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'giveWay'|'giveWayToTram'|'giveWayToOncomingVehicles'|'stop'|'giveWayToRail'|'giveWayToSchoolCrossingPatrol'|'bendOfPriorityRoadFromLeft'|'b

Documentation Possible values for priority rules.

Schema Component Representation

```
<xs:simpleType name="PriorityRuleTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="giveWay"/>
    <xs:enumeration value="giveWayToTram"/>
    <xs:enumeration value="giveWayToOncomingVehicles"/>
    <xs:enumeration value="stop"/>
    <xs:enumeration value="giveWayToRail"/>
    <xs:enumeration value="giveWayToSchoolCrossingPatrol"/>
    <xs:enumeration value="bendOfPriorityRoadFromLeft"/>
    <xs:enumeration value="bendOfPriorityRoadFromRight"/>
    <xs:enumeration value="priorityAtNextJunction"/>
    <xs:enumeration value="priorityRoad"/>
    <xs:enumeration value="priorityOverOncomingVehicles"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ReasonForRegulationEnum

Super-types: xs:string < **ReasonForRegulationEnum** (by restriction)

Sub-types:

- _ReasonForRegulationEnum (by extension)

Name ReasonForRegulationEnum

Content

- Base XSD Type: string
- *value* comes from list: {'trafficSafety'|'trafficOrder'|'roadworks'|'protectionOfRoad'|'protectionOfNoiseAndEmissions'|'protectionOfWaters'|'publicSafety'|'researchAndTest'|'oth

Documentation This enumeration lists possible reasons for a road traffic authority to issue a traffic regulation order.

Schema Component Representation

```
<xs:simpleType name="ReasonForRegulationEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="trafficSafety"/>
    <xs:enumeration value="trafficOrder"/>
    <xs:enumeration value="roadworks"/>
    <xs:enumeration value="protectionOfRoad"/>
    <xs:enumeration value="protectionOfNoiseAndEmissions"/>
    <xs:enumeration value="protectionOfWaters"/>
    <xs:enumeration value="publicSafety"/>
    <xs:enumeration value="researchAndTest"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: RoadOrCarriagewayOrLaneLayoutType

Super-types: xs:string < **RoadOrCarriagewayOrLaneLayoutType** (by restriction)

Sub-types:

- _RoadOrCarriagewayOrLaneLayoutType (by extension)

Name RoadOrCarriagewayOrLaneLayoutType

Content

- Base XSD Type: string
- *value* comes from list: {'road'|'lane'|'carriageway'|'_extended'}

Documentation Layout types for road, carriageway or lane.

Schema Component Representation

```
<xs:simpleType name="RoadOrCarriagewayOrLaneLayoutType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="road"/>
    <xs:enumeration value="lane"/>
    <xs:enumeration value="carriageway"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: RoadTypeEnum

Super-types: xs:string < **RoadTypeEnum** (by restriction)

Sub-types:

- _RoadTypeEnum (by extension)

Name RoadTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'motorway'|'expressRoad'|'insideBuiltUpAreas'|'outsideBuiltUpAreas'|'_extended'}

Documentation Collection of road types.

Schema Component Representation

```
<xs:simpleType name="RoadTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="motorway"/>
    <xs:enumeration value="expressRoad"/>
    <xs:enumeration value="insideBuiltUpAreas"/>
    <xs:enumeration value="outsideBuiltUpAreas"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: RoadWarningTypeEnum

Super-types: xs:string < **RoadWarningTypeEnum** (by restriction)

Sub-types:

- _RoadWarningTypeEnum (by extension)

Name RoadWarningTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'bendLeft'|'bendRight'|'crossroadsWithPriorityFromRight'|'doubleBendFirstToLeft'|'doubleBendFirstToRight'|'roadNarrowsBothSides'|'roadNarrowsLef

Documentation Types of road related dangers.

Schema Component Representation

```
<xs:simpleType name="RoadWarningTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="bendLeft"/>
    <xs:enumeration value="bendRight"/>
    <xs:enumeration value="crossroadsWithPriorityFromRight"/>
    <xs:enumeration value="doubleBendFirstToLeft"/>
    <xs:enumeration value="doubleBendFirstToRight"/>
    <xs:enumeration value="roadNarrowsBothSides"/>
    <xs:enumeration value="roadNarrowsLeft"/>
    <xs:enumeration value="roadNarrowsRight"/>
    <xs:enumeration value="roadWorks"/>
    <xs:enumeration value="trafficLightsAhead"/>
    <xs:enumeration value="unevenRoad"/>
    <xs:enumeration value="slipperyRoad"/>
    <xs:enumeration value="roadHump"/>
    <xs:enumeration value="roadDip"/>
    <xs:enumeration value="lateralStep"/>
    <xs:enumeration value="accident"/>
    <xs:enumeration value="roundabout"/>
    <xs:enumeration value="swingBridge"/>
    <xs:enumeration value="obstacleOnTheRoad"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: StandingOrParkingRestricitonTypeEnum

Super-types: xs:string < **StandingOrParkingRestricitonTypeEnum** (by restriction)

Sub-types:

- _StandingOrParkingRestricitonTypeEnum (by extension)

Name StandingOrParkingRestricitonTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'parkingProhibited'|'standingAndParkingProhibited'|'_extended'}

Documentation Standing and/or parking restriction type.

Schema Component Representation

```
<xs:simpleType name="StandingOrParkingRestricitonTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="parkingProhibited"/>
    <xs:enumeration value="standingAndParkingProhibited"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: SteepHillDirectionTypeEnum

Super-types: xs:string < **SteepHillDirectionTypeEnum** (by restriction)

Sub-types:

- _SteepHillDirectionTypeEnum (by extension)

Name SteepHillDirectionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'downwards'|'upwards'|'_extended'}

Documentation Direction of steep hill,

Schema Component Representation

```
<xs:simpleType name="SteepHillDirectionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="downwards"/>
    <xs:enumeration value="upwards"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TrafficAheadTypeEnum

Super-types: xs:string < **TrafficAheadTypeEnum** (by restriction)

Sub-types:

- _TrafficAheadTypeEnum (by extension)

Name TrafficAheadTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'children'|'cycleRoute'|'pedestrianCrossing'|'levelCrossing'|'ridingPath'|'trafficQueues'|'twoWayTraffic'|'tramsCrossingAhead'|'levelCrossingWithGate'|'

Documentation Types of traffic on the road.

Schema Component Representation

```
<xs:simpleType name="TrafficAheadTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="children"/>
    <xs:enumeration value="cycleRoute"/>
    <xs:enumeration value="pedestrianCrossing"/>
    <xs:enumeration value="levelCrossing"/>
    <xs:enumeration value="ridingPath"/>
    <xs:enumeration value="trafficQueues"/>
    <xs:enumeration value="twoWayTraffic"/>
    <xs:enumeration value="tramsCrossingAhead"/>
    <xs:enumeration value="levelCrossingWithGate"/>
    <xs:enumeration value="busCrossing"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TrafficRegulationInstallerTypeEnum

Super-types: xs:string < **TrafficRegulationInstallerTypeEnum** (by restriction)

Sub-types:

- _TrafficRegulationInstallerTypeEnum (by extension)

Name TrafficRegulationInstallerTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'police'|'roadOperator'|'publicWorkOrUtilityCompanies'|'fireBrigade'|'_extended'}

Documentation Possible performers of traffic regulations without traffic regulation order.

Schema Component Representation

```
<xs:simpleType name="TrafficRegulationInstallerTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="police"/>
    <xs:enumeration value="roadOperator"/>
    <xs:enumeration value="publicWorkOrUtilityCompanies"/>
    <xs:enumeration value="fireBrigade"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TrafficRegulationOrderStatusEnum

Super-types: xs:string < **TrafficRegulationOrderStatusEnum** (by restriction)

Sub-types:

- _TrafficRegulationOrderStatusEnum (by extension)

Name TrafficRegulationOrderStatusEnum

Content

- Base XSD Type: string
- *value* comes from list: {'planned'|'madeButNotImplemented'|'madeAndPartiallyImplemented'|'madeAndImplemented'|'partiallyWithdrawn'|'withdrawn'|'_extended'}

Documentation Lifecycle states of a traffic regulation order.

Schema Component Representation

```
<xs:simpleType name="TrafficRegulationOrderStatusEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="planned"/>
    <xs:enumeration value="madeButNotImplemented"/>
    <xs:enumeration value="madeAndPartiallyImplemented"/>
    <xs:enumeration value="madeAndImplemented"/>
    <xs:enumeration value="partiallyWithdrawn"/>
    <xs:enumeration value="withdrawn"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TrafficRegulationStatusEnum

Super-types: xs:string < **TrafficRegulationStatusEnum** (by restriction)

Sub-types:
- _TrafficRegulationStatusEnum (by extension)

Name TrafficRegulationStatusEnum

Content
- Base XSD Type: string
- *value* comes from list: {'active'|'beingSetUp'|'beingShutDown'|'scheduled'|'_extended'}

Documentation Implementation lifecycle values for traffic regulations.

Schema Component Representation

```
<xs:simpleType name="TrafficRegulationStatusEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="active"/>
    <xs:enumeration value="beingSetUp"/>
    <xs:enumeration value="beingShutDown"/>
    <xs:enumeration value="scheduled"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: UnitOfSpeedEnum

Super-types: xs:string < **UnitOfSpeedEnum** (by restriction)

Sub-types:
- _UnitOfSpeedEnum (by extension)

Name UnitOfSpeedEnum

Content
- Base XSD Type: string
- *value* comes from list: {'kilometresPerHour'|'milesPerHour'|'_extended'}

Documentation Units of speed.

Schema Component Representation

```
<xs:simpleType name="UnitOfSpeedEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="kilometresPerHour"/>
    <xs:enumeration value="milesPerHour"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top