Realis ITS

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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>
```

top

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>
```

top

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>
```

top

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>
```

top

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>
```

top

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>
```

top

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>
```

top

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>
```

top

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>
```

top

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>
```

top

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>
```

top

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>
```

top

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>
```

top

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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DATEXII_3_Common

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  - Complex Type: **_InformationStatusEnum**
  - Complex Type: **_LoadTypeEnum**
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  - Complex Type: **_WeatherRelatedRoadConditionTypeEnum**
  - Complex Type: **_WeightTypeEnum**
  - Complex Type: **_WinterEquipmentManagementTypeEnum**
  - Simple Type: **AngleInDegrees**
  - Simple Type: **Base64Binary**
  - Simple Type: **Boolean**
  - Simple Type: **ComparisonOperatorEnum**
  - Simple Type: **ConfidentialityValueEnum**
  - Simple Type: **CountryCode**
  - Simple Type: **CubicMetres**
  - Simple Type: **DangerousGoodsRegulationsEnum**
  - Simple Type: **DateTime**
  - Simple Type: **Decimal**
  - Simple Type: **EmissionClassificationEuroEnum**
  - Simple Type: **Float**
  - Simple Type: **FuelTypeEnum**
  - Simple Type: **InformationDeliveryServicesEnum**
  - Simple Type: **InformationStatusEnum**
  - Simple Type: **Integer**
  - Simple Type: **KilometresPerHour**
  - Simple Type: **Language**
  - Simple Type: **LoadTypeEnum**
  - Simple Type: **LongString**
  - Simple Type: **LowEmissionLevelEnum**
  - Simple Type: **MetresAsFloat**
  - Simple Type: **MetresAsNonNegativeInteger**
  - Simple Type: **MultilingualStringValueType**
  - Simple Type: **NonNegativeInteger**
  - Simple Type: **Percentage**
  - Simple Type: **PublicEventTypeEnum**
  - Simple Type: **Seconds**
  - Simple Type: **String**
  - Simple Type: **TemperatureCelsius**
  - Simple Type: **Tonnes**
  - Simple Type: **Url**
  - Simple Type: **ValidityStatusEnum**
  - Simple Type: **VehicleEquipmentEnum**
  - Simple Type: **VehicleTypeEnum**
  - Simple Type: **VehicleUsageEnum**
  - Simple Type: **WeatherRelatedRoadConditionTypeEnum**
  - Simple Type: **WeightTypeEnum**
  - Simple Type: **WinterEquipmentManagementTypeEnum**
  - Simple Type: **Year**
  - Simple Type: **_EmissionClassificationEuroEnumExtensionType**
  - Simple Type: **_LoadTypeEnumExtensionType**
  - Simple Type: **_VehicleEquipmentEnumExtensionType**
  - Simple Type: **_VehicleTypeEnumExtensionType**
  - Simple Type: **_VehicleUsageEnumExtensionType**
  - Simple Type: **_WeightTypeEnumExtensionType**

top

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/trafficManagementPlan* (at DATEXII_3_TrafficManagementPlan.xsd)
	  ◦ *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
tmp	http://datex2.eu/schema/3/trafficManagementPlan
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/trafficManagementPlan"
  schemaLocation="DATEXII_3_TrafficManagementPlan.xsd"/>
  <xs:import namespace="http://datex2.eu/schema/3/commonExtension" schemaLocation="DATEXII_3_CommonExtension.xsd"/>
  ...
</xs:schema>
```

top

Global Definitions

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: Fault

Super-types:	None
Sub-types:	None

Name	Fault
Abstract	no
Documentation	Information about a fault relating to a specific piece of equipment or process.

XML Instance Representation

```
<...>
  <com:faultLastUpdateTime> com:DateTime </com:faultLastUpdateTime> [1] ?
  <com:_faultExtension> com:_ExtensionType </com:_faultExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Fault">
  <xs:sequence>
    <xs:element name="faultLastUpdateTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_faultExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
```

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

top

Complex Type: GenericPublication

Super-types:	PayloadPublication < **GenericPublication** (by extension)
Sub-types:	None

Name	GenericPublication
Abstract	no
Documentation	A publication used to make level B extensions at the publication level.

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]
   <com:genericPublicationName> com:String </com:genericPublicationName> [1] ?
   <com:_genericPublicationExtension> com:_GenericPublicationExtensionType </com:_genericPublicationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GenericPublication">
  <xs:complexContent>
    <xs:extension base="com:PayloadPublication">
      <xs:sequence>
        <xs:element name="genericPublicationName" type="com:String" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_genericPublicationExtension" type="com:_GenericPublicationExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: GlobalReference

Super-types:	None
Sub-types:	None

Name	GlobalReference
Abstract	yes
Documentation	A versioned reference to an object that may be in another publication from another publisher.

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="GlobalReference" abstract="true">
  <xs:sequence>
    <xs:element name="_globalReferenceExtension" type="com:_ExtensionType" 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: HeaderInformation

Super-types:	None
Sub-types:	None

Name	HeaderInformation
Abstract	no
Documentation	Management information relating to the data contained within a publication.

XML Instance Representation

```
<...>
  <com:confidentiality> com:_ConfidentialityValueEnum </com:confidentiality> [0..1] ?
  <com:allowedDeliveryChannel> com:_InformationDeliveryServicesEnum </com:allowedDeliveryChannel> [0..*] ?
  <com:informationStatus> com:_InformationStatusEnum </com:informationStatus> [1] ?
  <com:_headerInformationExtension> com:_ExtensionType </com:_headerInformationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="HeaderInformation">
  <xs:sequence>
    <xs:element name="confidentiality" type="com:_ConfidentialityValueEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="allowedDeliveryChannel" type="com:_InformationDeliveryServicesEnum" minOccurs="0"
    maxOccurs="unbounded"/>
    <xs:element name="informationStatus" type="com:_InformationStatusEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_headerInformationExtension" type="com:_ExtensionType" 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: 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:_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="_overallPeriodExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: PayloadPublication

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

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: 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: 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: _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: _ConfidentialityValueEnum

Super-types:	xs:string < ConfidentialityValueEnum (by restriction) < **_ConfidentialityValueEnum** (by extension)
Sub-types:	None

Name	_ConfidentialityValueEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_ConfidentialityValueEnum">
  <xs:simpleContent>
    <xs:extension base="com:ConfidentialityValueEnum">
      <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: _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: _GenericPublicationExtensionType

Super-types:	None
Sub-types:	None

Name	_GenericPublicationExtensionType
Abstract	no

XML Instance Representation

```
<...>
   <com:tmplanOperationPublication> tmp:TmplanOperationPublication </com:tmplanOperationPublication> [0..1]
   <com:tmplanTablePublication> tmp:TmplanTablePublication </com:tmplanTablePublication> [0..1]
   Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_GenericPublicationExtensionType">
   <xs:sequence>
      <xs:element name="tmplanOperationPublication" type="tmp:TmplanOperationPublication" minOccurs="0"/>
      <xs:element name="tmplanTablePublication" type="tmp:TmplanTablePublication" minOccurs="0"/>
      <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
   </xs:sequence>
</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: _InformationDeliveryServicesEnum

Super-types:	xs:string < InformationDeliveryServicesEnum (by restriction) < **_InformationDeliveryServicesEnum** (by extension)
Sub-types:	None

Name	_InformationDeliveryServicesEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

top

Complex Type: _InformationStatusEnum

Super-types:	xs:string < InformationStatusEnum (by restriction) < **_InformationStatusEnum** (by extension)
Sub-types:	None

Name	_InformationStatusEnum

Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_InformationStatusEnum">
  <xs:simpleContent>
    <xs:extension base="com:InformationStatusEnum">
      <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: _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: _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

Complex Type: _WinterEquipmentManagementTypeEnum

Super-types:	xs:string < WinterEquipmentManagementTypeEnum (by restriction) < **_WinterEquipmentManagementTypeEnum** (by extension)
Sub-types:	None

Name	_WinterEquipmentManagementTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_WinterEquipmentManagementTypeEnum">
  <xs:simpleContent>
    <xs:extension base="com:WinterEquipmentManagementTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </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: Base64Binary

Super-types:	xs:base64Binary < **Base64Binary** (by restriction)
Sub-types:	None

Name	Base64Binary
Content	• Base XSD Type: base64Binary
Documentation	Binary data in base 64 encoding, for example for image data.

Schema Component Representation

```
<xs:simpleType name="Base64Binary">
  <xs:restriction base="xs:base64Binary"/>
</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: 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: ConfidentialityValueEnum

Super-types:	xs:string < **ConfidentialityValueEnum** (by restriction)
Sub-types:	• _ConfidentialityValueEnum (by extension)

Name ConfidentialityValueEnum

Content

- Base XSD Type: string
- *value* comes from list: {'internalUse'|'noRestriction'|'restrictedToAuthorities'|'restrictedToAuthoritiesAndTrafficOperators'|'_extended'}

Documentation Values of confidentiality.

Schema Component Representation

```
<xs:simpleType name="ConfidentialityValueEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="internalUse"/>
    <xs:enumeration value="noRestriction"/>
    <xs:enumeration value="restrictedToAuthorities"/>
    <xs:enumeration value="restrictedToAuthoritiesAndTrafficOperators"/>
    <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: 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: 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)
- KilometresPerHour (by restriction)
- MetresAsFloat (by restriction)
- Percentage (by restriction)
- Seconds (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: InformationDeliveryServicesEnum

Super-types:	xs:string < **InformationDeliveryServicesEnum** (by restriction)
Sub-types:	• _InformationDeliveryServicesEnum (by extension)

Name	InformationDeliveryServicesEnum
Content	• Base XSD Type: string • *value* comes from list: {'anyGeneralDeliveryService'|'safetyServices'|'vms'|'_extended'}
Documentation	List of service channels or devices on which information or data exchanged can be delivered.

Schema Component Representation

```
<xs:simpleType name="InformationDeliveryServicesEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="anyGeneralDeliveryService"/>
    <xs:enumeration value="safetyServices"/>
    <xs:enumeration value="vms"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: InformationStatusEnum

Super-types:	xs:string < **InformationStatusEnum** (by restriction)
Sub-types:	• _InformationStatusEnum (by extension)

Name	InformationStatusEnum
Content	• Base XSD Type: string • *value* comes from list: {'real'|'securityExercise'|'technicalExercise'|'test'|'_extended'}
Documentation	Status of the related information (i.e. real, test or exercise).

Schema Component Representation

```
<xs:simpleType name="InformationStatusEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="real"/>
    <xs:enumeration value="securityExercise"/>
    <xs:enumeration value="technicalExercise"/>
    <xs:enumeration value="test"/>
    <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: KilometresPerHour

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

Name KilometresPerHour

Content

- Base XSD Type: float

Documentation A measure of speed defined in kilometres per hour.

Schema Component Representation

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

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

Name Seconds

Content

- Base XSD Type: float

Documentation Seconds.

Schema Component Representation

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

Super-types:	xs:string < **WinterEquipmentManagementTypeEnum** (by restriction)
Sub-types:	• _WinterEquipmentManagementTypeEnum (by extension)

Name WinterEquipmentManagementTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'doNotUseStudTyres'|'useSnowChains'|'useSnowChainsOrTyres'|'useSnowTyres'|'winterEquipmentOnBoardRequired'|'other'|'_extended'}

Documentation Instructions relating to the use of winter equipment.

Schema Component Representation

```
<xs:simpleType name="WinterEquipmentManagementTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="doNotUseStudTyres"/>
    <xs:enumeration value="useSnowChains"/>
    <xs:enumeration value="useSnowChainsOrTyres"/>
    <xs:enumeration value="useSnowTyres"/>
    <xs:enumeration value="winterEquipmentOnBoardRequired"/>
    <xs:enumeration value="other"/>
    <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>
```

top

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/vms* (at DATEXII_3_Vms.xsd)
	  ◦ *http://datex2.eu/schema/3/trafficRegulation* (at DATEXII_3_TrafficRegulation.xsd)
	  ◦ *http://datex2.eu/schema/3/trafficManagementPlan* (at DATEXII_3_TrafficManagementPlan.xsd)
	  ◦ *http://datex2.eu/schema/3/situation* (at DATEXII_3_Situation.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
vms	http://datex2.eu/schema/3/vms
tro	http://datex2.eu/schema/3/trafficRegulation
tmp	http://datex2.eu/schema/3/trafficManagementPlan
sit	http://datex2.eu/schema/3/situation
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/vms"
   schemaLocation="DATEXII_3_Vms.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/trafficRegulation"
   schemaLocation="DATEXII_3_TrafficRegulation.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/trafficManagementPlan"
   schemaLocation="DATEXII_3_TrafficManagementPlan.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/situation"
   schemaLocation="DATEXII_3_Situation.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 - _payloadSituationRecordConstraint
   Selector - .//sit:situationRecord
   Field(s) - @id, @version
   -->
   <!--
   Uniqueness Constraint - _payloadTmplanScenarioConstraint
   Selector - .//tmp:tmplanScenario
   Field(s) - @id, @version
   -->
   <!--
   Uniqueness Constraint - _payloadResponseConstraint
   Selector - .//tmp:response
   Field(s) - @id, @version
   -->
   <!--
   Uniqueness Constraint - _payloadSituationConstraint
   Selector - .//sit:situation
   Field(s) - @id
   -->
```

```
   <!--
   Uniqueness Constraint - _payloadMeasureDefinitionConstraint
   Selector - .//tmp:measureDefinition
   Field(s) - @id, @version
   -->
   <!--
   Uniqueness Constraint - _payloadTmplanTableConstraint
   Selector - .//tmp:tmplanTable
   Field(s) - @id, @version
   -->
   <!--
   Uniqueness Constraint - _payloadStrategyDefinitionConstraint
   Selector - .//tmp:strategyDefinition
   Field(s) - @id, @version
   -->
   <!--
   Uniqueness Constraint - _payloadTmplanOperationConstraint
   Selector - .//tmp:tmplanOperation
   Field(s) - @id, @version
   -->
   <!--
   Uniqueness Constraint - _payloadActionDefinitionConstraint
   Selector - .//tmp:actionDefinition
   Field(s) - @id, @version
   -->
</d2:payload>
```

Schema Component Representation

```
<xs:element name="payload" type="com:PayloadPublication">
   <xs:unique name="_payloadSituationRecordConstraint">
      <xs:selector xpath=".//sit:situationRecord"/>
      <xs:field xpath="@id"/>
      <xs:field xpath="@version"/>
   </xs:unique>
   <xs:unique name="_payloadTmplanScenarioConstraint">
      <xs:selector xpath=".//tmp:tmplanScenario"/>
      <xs:field xpath="@id"/>
      <xs:field xpath="@version"/>
   </xs:unique>
   <xs:unique name="_payloadResponseConstraint">
      <xs:selector xpath=".//tmp:response"/>
      <xs:field xpath="@id"/>
      <xs:field xpath="@version"/>
   </xs:unique>
   <xs:unique name="_payloadSituationConstraint">
      <xs:selector xpath=".//sit:situation"/>
      <xs:field xpath="@id"/>
   </xs:unique>
   <xs:unique name="_payloadMeasureDefinitionConstraint">
      <xs:selector xpath=".//tmp:measureDefinition"/>
      <xs:field xpath="@id"/>
      <xs:field xpath="@version"/>
   </xs:unique>
   <xs:unique name="_payloadTmplanTableConstraint">
      <xs:selector xpath=".//tmp:tmplanTable"/>
      <xs:field xpath="@id"/>
      <xs:field xpath="@version"/>
   </xs:unique>
   <xs:unique name="_payloadStrategyDefinitionConstraint">
      <xs:selector xpath=".//tmp:strategyDefinition"/>
      <xs:field xpath="@id"/>
      <xs:field xpath="@version"/>
   </xs:unique>
   <xs:unique name="_payloadTmplanOperationConstraint">
      <xs:selector xpath=".//tmp:tmplanOperation"/>
      <xs:field xpath="@id"/>
      <xs:field xpath="@version"/>
   </xs:unique>
```

```
  <xs:unique name="_payloadActionDefinitionConstraint">
    <xs:selector xpath=".//tmp:actionDefinition"/>
    <xs:field xpath="@id"/>
    <xs:field xpath="@version"/>
  </xs:unique>
</xs:element>
```

top

DATEXII_3_Facilities

Table of Contents

- Schema Document Properties
- Global Definitions
  - Simple Type: **TimeZone**

top

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

Table of Contents

- Schema Document Properties
- Global Definitions
  - Complex Type: **Address**
  - Complex Type: **AddressLine**
  - Complex Type: **FacilityLocation**
  - Complex Type: **NamedAreaExtended**
  - Complex Type: **SupplementaryPositionalDescriptionExtended**
  - Complex Type: **_AddressLineTypeEnum**
  - Complex Type: **_HouseNumberSideEnum**
  - Simple Type: **AddressLineTypeEnum**
  - Simple Type: **HouseNumberSideEnum**
  - Simple Type: **NamedAreaCode**

top

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

Table of Contents

- Schema Document Properties
- Global Definitions
  - Complex Type: **AlertCArea**
  - Complex Type: **AlertCDirection**
  - Complex Type: **AlertCLinear**
  - Complex Type: **AlertCLinearByCode**
  - Complex Type: **AlertCLocation**
  - Complex Type: **AlertCMethod2Linear**
  - Complex Type: **AlertCMethod2Point**
  - Complex Type: **AlertCMethod2PrimaryPointLocation**
  - Complex Type: **AlertCMethod2SecondaryPointLocation**
  - Complex Type: **AlertCMethod4Linear**
  - Complex Type: **AlertCMethod4Point**
  - Complex Type: **AlertCMethod4PrimaryPointLocation**
  - Complex Type: **AlertCMethod4SecondaryPointLocation**
  - Complex Type: **AlertCPoint**
  - Complex Type: **AltitudeConfidence**
  - Complex Type: **AreaDestination**
  - Complex Type: **AreaLocation**
  - Complex Type: **Carriageway**
  - Complex Type: **Destination**
  - Complex Type: **DistanceAlongLinearElement**
  - Complex Type: **DistanceFromLinearElementReferent**
  - Complex Type: **DistanceFromLinearElementStart**
  - Complex Type: **ExternalReferencing**
  - Complex Type: **GmlLineString**
  - Complex Type: **GmlLinearRing**
  - Complex Type: **GmlMultiPolygon**
  - Complex Type: **GmlPolygon**
  - Complex Type: **HeightCoordinate**
  - Complex Type: **IsoNamedArea**
  - Complex Type: **Itinerary**
  - Complex Type: **ItineraryByIndexedLocations**
  - Complex Type: **ItineraryByReference**
  - Complex Type: **Lane**
  - Complex Type: **LinearElement**
  - Complex Type: **LinearElementByCode**
  - Complex Type: **LinearElementByLineString**
  - Complex Type: **LinearElementByPoints**
  - Complex Type: **LinearLocation**
  - Complex Type: **LinearWithinLinearElement**
  - Complex Type: **Location**
  - Complex Type: **LocationByReference**
  - Complex Type: **LocationGroup**
  - Complex Type: **LocationGroupByList**
  - Complex Type: **LocationGroupByReference**
  - Complex Type: **LocationReference**
  - Complex Type: **NamedArea**
  - Complex Type: **NetworkLocation**
  - Complex Type: **NutsNamedArea**
  - Complex Type: **OffsetDistance**
  - Complex Type: **OpenlrAreaLocationReference**
  - Complex Type: **OpenlrBasePointLocation**
  - Complex Type: **OpenlrBaseReferencePoint**
  - Complex Type: **OpenlrCircleLocationReference**
  - Complex Type: **OpenlrClosedLineLocationReference**
  - Complex Type: **OpenlrGeoCoordinate**
  - Complex Type: **OpenlrGridLocationReference**
  - Complex Type: **OpenlrLastLocationReferencePoint**
  - Complex Type: **OpenlrLineAttributes**
  - Complex Type: **OpenlrLineLocationReference**
  - Complex Type: **OpenlrLinear**
  - Complex Type: **OpenlrLocationReferencePoint**
  - Complex Type: **OpenlrOffsets**
  - Complex Type: **OpenlrPathAttributes**
  - Complex Type: **OpenlrPoiWithAccessPoint**
  - Complex Type: **OpenlrPointAlongLine**
  - Complex Type: **OpenlrPointLocationReference**
  - Complex Type: **OpenlrPolygonCorners**
  - Complex Type: **OpenlrPolygonLocationReference**
  - Complex Type: **OpenlrRectangle**
  - Complex Type: **OpenlrRectangleLocationReference**
  - Complex Type: **PercentageDistanceAlongLinearElement**
  - Complex Type: **PointAlongLinearElement**
  - Complex Type: **PointByCoordinates**
  - Complex Type: **PointCoordinates**
  - Complex Type: **PointDestination**
  - Complex Type: **PointLocation**
  - Complex Type: **PositionAccuracy**
  - Complex Type: **PositionConfidenceEllipse**
  - Complex Type: **Referent**
  - Complex Type: **RoadInformation**
  - Complex Type: **SingleRoadLinearLocation**
  - Complex Type: **SupplementaryPositionalDescription**
  - Complex Type: **TpegAreaDescriptor**
  - Complex Type: **TpegAreaLocation**
  - Complex Type: **TpegDescriptor**
  - Complex Type: **TpegFramedPoint**
  - Complex Type: **TpegGeometricArea**
  - Complex Type: **TpegHeight**
  - Complex Type: **TpegIlcPointDescriptor**
  - Complex Type: **TpegJunction**
  - Complex Type: **TpegJunctionPointDescriptor**
  - Complex Type: **TpegLinearLocation**
  - Complex Type: **TpegNamedOnlyArea**
  - Complex Type: **TpegNonJunctionPoint**
  - Complex Type: **TpegOtherPointDescriptor**

- 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: **_OpenIrFormOfWayEnum**
- Complex Type: **_OpenIrFunctionalRoadClassEnum**
- Complex Type: **_OpenIrOrientationEnum**
- Complex Type: **_OpenIrSideOfRoadEnum**
- 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: **OpenIrFormOfWayEnum**
- Simple Type: **OpenIrFunctionalRoadClassEnum**
- Simple Type: **OpenIrOrientationEnum**
- Simple Type: **OpenIrSideOfRoadEnum**
- 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:_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="_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:_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'|'c

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>
```

top

DATEXII_3_Parking

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- Schema Document Properties
- Global Definitions
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  - Complex Type: **_RoadTypeEnum**
  - Simple Type: **RoadTypeEnum**

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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_Situation

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  - Complex Type: **DetailedCauseType**
  - Complex Type: **OperatorAction**
  - Complex Type: **Situation**
  - Complex Type: **SituationPublication**
  - Complex Type: **SituationRecord**
  - Complex Type: **SituationRecordReference**
  - Complex Type: **_AbnormalTrafficTypeEnum**
  - Complex Type: **_AccidentTypeEnum**
  - Complex Type: **_AnimalPresenceTypeEnum**
  - Complex Type: **_AuthorityOperationTypeEnum**
  - Complex Type: **_CauseTypeEnum**
  - Complex Type: **_CommentTypeEnum**
  - Complex Type: **_ComplianceOptionEnum**
  - Complex Type: **_ConstructionWorkTypeEnum**
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  - Complex Type: **_ObstructionTypeEnum**
  - Complex Type: **_OperatorActionExtensionType**
  - Complex Type: **_PlacesEnum**
  - Complex Type: **_PoorEnvironmentTypeEnum**
  - Complex Type: **_ReroutingManagementTypeEnum**
  - Complex Type: **_RoadMaintenanceTypeEnum**
  - Complex Type: **_RoadOperatorServiceDisruptionTypeEnum**
  - Complex Type: **_RoadOrCarriagewayOrLaneManagementTypeEnum**
  - Complex Type: **_RoadsideAssistanceTypeEnum**
  - Complex Type: **_ServiceDisruptionTypeEnum**
  - Complex Type: **_SituationRecordVersionedReference**
  - Complex Type: **_SpeedManagementTypeEnum**
  - Complex Type: **_TrafficTypeEnum**
  - Complex Type: **_TransitServiceInformationEnum**
  - Complex Type: **_VehicleObstructionTypeEnum**
  - Simple Type: **AbnormalTrafficTypeEnum**
  - Simple Type: **AccidentTypeEnum**
  - Simple Type: **AnimalPresenceTypeEnum**
  - Simple Type: **AuthorityOperationTypeEnum**
  - Simple Type: **CauseTypeEnum**
  - Simple Type: **CommentTypeEnum**
  - Simple Type: **ComplianceOptionEnum**
  - Simple Type: **ConstructionWorkTypeEnum**
  - Simple Type: **DisturbanceActivityTypeEnum**
  - Simple Type: **DrivingConditionTypeEnum**
  - Simple Type: **EnvironmentalObstructionTypeEnum**
  - Simple Type: **EquipmentOrSystemFaultTypeEnum**
  - Simple Type: **GeneralInstructionToRoadUsersTypeEnum**
  - Simple Type: **GeneralNetworkManagementTypeEnum**
  - Simple Type: **InfrastructureDamageTypeEnum**
  - Simple Type: **NonWeatherRelatedRoadConditionTypeEnum**
  - Simple Type: **ObstructionTypeEnum**
  - Simple Type: **PlacesEnum**
  - Simple Type: **PoorEnvironmentTypeEnum**
  - Simple Type: **ReroutingManagementTypeEnum**
  - Simple Type: **RoadMaintenanceTypeEnum**
  - Simple Type: **RoadOperatorServiceDisruptionTypeEnum**
  - Simple Type: **RoadOrCarriagewayOrLaneManagementTypeEnum**
  - Simple Type: **RoadsideAssistanceTypeEnum**
  - Simple Type: **ServiceDisruptionTypeEnum**
  - Simple Type: **SpeedManagementTypeEnum**
  - Simple Type: **TrafficTypeEnum**
  - Simple Type: **TransitServiceInformationEnum**
  - Simple Type: **VehicleObstructionTypeEnum**

top

Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/situation**
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/trafficManagementPlan* (at DATEXII_3_TrafficManagementPlan.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

tmp	http://datex2.eu/schema/3/trafficManagementPlan
loc	http://datex2.eu/schema/3/locationReferencing
com	http://datex2.eu/schema/3/common
sit	**http://datex2.eu/schema/3/situation**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified" version="3.3"
targetNamespace="http://datex2.eu/schema/3/situation">
  <xs:import namespace="http://datex2.eu/schema/3/trafficManagementPlan"
  schemaLocation="DATEXII_3_TrafficManagementPlan.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 Definitions

Complex Type: Cause

Super-types:	None
Sub-types:	None

Name	Cause
Abstract	no
Documentation	Contains details of the cause of a record within a situation

XML Instance Representation

```
<...>
  <sit:causeDescription> com:MultilingualString </sit:causeDescription> [0..1] ?
  <sit:causeType> sit:_CauseTypeEnum </sit:causeType> [0..1] ?
  <sit:detailedCauseType> sit:DetailedCauseType </sit:detailedCauseType> [0..1] ?
  <sit:managedCause> sit:SituationRecordReference </sit:managedCause> [0..1] ?
  <sit:_causeExtension> com:_ExtensionType </sit:_causeExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Cause">
  <xs:sequence>
    <xs:element name="causeDescription" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="causeType" type="sit:_CauseTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="detailedCauseType" type="sit:DetailedCauseType" minOccurs="0"/>
    <xs:element name="managedCause" type="sit:SituationRecordReference" minOccurs="0"/>
    <xs:element name="_causeExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: Comment

Super-types:	None
Sub-types:	None

Name	Comment
Abstract	no
Documentation	A free text comment with an optional date/time stamp that can be used by the operator to convey un-coded observations/information.

XML Instance Representation

```
<...>
  <sit:comment> com:MultilingualString </sit:comment> [1] ?
  <sit:commentDateTime> com:DateTime </sit:commentDateTime> [0..1] ?
  <sit:commentType> sit:_CommentTypeEnum </sit:commentType> [0..1] ?
  <sit:_commentExtension> com:_ExtensionType </sit:_commentExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Comment">
  <xs:sequence>
    <xs:element name="comment" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
    <xs:element name="commentDateTime" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
    <xs:element name="commentType" type="sit:_CommentTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_commentExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: DetailedCauseType

Super-types:	None
Sub-types:	None

Name	DetailedCauseType
Abstract	no
Documentation	The type of influence that may be the cause of components of a situation. At least one attribute must be populated.

XML Instance Representation

```
<...>
  <sit:abnormalTrafficType> sit:_AbnormalTrafficTypeEnum </sit:abnormalTrafficType> [0..1] ?
  <sit:accidentType> sit:_AccidentTypeEnum </sit:accidentType> [0..*] ?
  <sit:animalPresenceType> sit:_AnimalPresenceTypeEnum </sit:animalPresenceType> [0..1] ?
  <sit:authorityOperationType> sit:_AuthorityOperationTypeEnum </sit:authorityOperationType> [0..1] ?
  <sit:constructionWorkType> sit:_ConstructionWorkTypeEnum </sit:constructionWorkType> [0..1] ?
  <sit:disturbanceActivityType> sit:_DisturbanceActivityTypeEnum </sit:disturbanceActivityType> [0..1] ?
  <sit:drivingConditionType> sit:_DrivingConditionTypeEnum </sit:drivingConditionType> [0..1] ?
  <sit:environmentalObstructionType> sit:_EnvironmentalObstructionTypeEnum </sit:environmentalObstructionType>
  [0..1] ?
  <sit:equipmentOrSystemFaultType> sit:_EquipmentOrSystemFaultTypeEnum </sit:equipmentOrSystemFaultType> [0..1] ?
  <sit:generalInstructionToRoadUsersType> sit:_GeneralInstructionToRoadUsersTypeEnum
  </sit:generalInstructionToRoadUsersType> [0..1] ?
  <sit:generalNetworkManagementType> sit:_GeneralNetworkManagementTypeEnum </sit:generalNetworkManagementType>
  [0..1] ?
  <sit:infrastructureDamageType> sit:_InfrastructureDamageTypeEnum </sit:infrastructureDamageType> [0..1] ?
  <sit:nonWeatherRelatedRoadConditionType> sit:_NonWeatherRelatedRoadConditionTypeEnum
  </sit:nonWeatherRelatedRoadConditionType> [0..*] ?
  <sit:obstructionType> sit:_ObstructionTypeEnum </sit:obstructionType> [0..*] ?
  <sit:poorEnvironmentType> sit:_PoorEnvironmentTypeEnum </sit:poorEnvironmentType> [0..*] ?
  <sit:publicEventType> com:_PublicEventTypeEnum </sit:publicEventType> [0..1] ?
  <sit:reroutingManagementType> sit:_ReroutingManagementTypeEnum </sit:reroutingManagementType> [0..*] ?
  <sit:roadMaintenanceType> sit:_RoadMaintenanceTypeEnum </sit:roadMaintenanceType> [0..*] ?
  <sit:roadOperatorServiceDisruptionType> sit:_RoadOperatorServiceDisruptionTypeEnum
  </sit:roadOperatorServiceDisruptionType> [0..*] ?
  <sit:roadOrCarriagewayOrLaneManagementType> sit:_RoadOrCarriagewayOrLaneManagementTypeEnum
  </sit:roadOrCarriagewayOrLaneManagementType> [0..1] ?
  <sit:roadsideAssistanceType> sit:_RoadsideAssistanceTypeEnum </sit:roadsideAssistanceType> [0..1] ?
  <sit:roadsideServiceDisruptionType> sit:_ServiceDisruptionTypeEnum </sit:roadsideServiceDisruptionType> [0..*] ?
  <sit:speedManagementType> sit:_SpeedManagementTypeEnum </sit:speedManagementType> [0..1] ?
  <sit:transitServiceInformation> sit:_TransitServiceInformationEnum </sit:transitServiceInformation> [0..1] ?
  <sit:vehicleObstructionType> sit:_VehicleObstructionTypeEnum </sit:vehicleObstructionType> [0..1] ?
  <sit:weatherRelatedRoadConditionType> com:_WeatherRelatedRoadConditionTypeEnum
  </sit:weatherRelatedRoadConditionType> [0..*] ?
  <sit:winterEquipmentManagementType> com:_WinterEquipmentManagementTypeEnum </sit:winterEquipmentManagementType>
  [0..1] ?
  <sit:_detailedCauseTypeExtension> com:_ExtensionType </sit:_detailedCauseTypeExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DetailedCauseType">
  <xs:sequence>
    <xs:element name="abnormalTrafficType" type="sit:_AbnormalTrafficTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="accidentType" type="sit:_AccidentTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="animalPresenceType" type="sit:_AnimalPresenceTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="authorityOperationType" type="sit:_AuthorityOperationTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="constructionWorkType" type="sit:_ConstructionWorkTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="disturbanceActivityType" type="sit:_DisturbanceActivityTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="drivingConditionType" type="sit:_DrivingConditionTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="environmentalObstructionType" type="sit:_EnvironmentalObstructionTypeEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="equipmentOrSystemFaultType" type="sit:_EquipmentOrSystemFaultTypeEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="generalInstructionToRoadUsersType" type="sit:_GeneralInstructionToRoadUsersTypeEnum"
    minOccurs="0" maxOccurs="1"/>
    <xs:element name="generalNetworkManagementType" type="sit:_GeneralNetworkManagementTypeEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="infrastructureDamageType" type="sit:_InfrastructureDamageTypeEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="nonWeatherRelatedRoadConditionType" type="sit:_NonWeatherRelatedRoadConditionTypeEnum"
    minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="obstructionType" type="sit:_ObstructionTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="poorEnvironmentType" type="sit:_PoorEnvironmentTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="publicEventType" type="com:_PublicEventTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="reroutingManagementType" type="sit:_ReroutingManagementTypeEnum" minOccurs="0"
    maxOccurs="unbounded"/>
    <xs:element name="roadMaintenanceType" type="sit:_RoadMaintenanceTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="roadOperatorServiceDisruptionType" type="sit:_RoadOperatorServiceDisruptionTypeEnum"
    minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="roadOrCarriagewayOrLaneManagementType" type="sit:_RoadOrCarriagewayOrLaneManagementTypeEnum"
    minOccurs="0" maxOccurs="1"/>
    <xs:element name="roadsideAssistanceType" type="sit:_RoadsideAssistanceTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="roadsideServiceDisruptionType" type="sit:_ServiceDisruptionTypeEnum" minOccurs="0"
    maxOccurs="unbounded"/>
    <xs:element name="speedManagementType" type="sit:_SpeedManagementTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="transitServiceInformation" type="sit:_TransitServiceInformationEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="vehicleObstructionType" type="sit:_VehicleObstructionTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="weatherRelatedRoadConditionType" type="com:_WeatherRelatedRoadConditionTypeEnum" minOccurs="0"
    maxOccurs="unbounded"/>
    <xs:element name="winterEquipmentManagementType" type="com:_WinterEquipmentManagementTypeEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="_detailedCauseTypeExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: OperatorAction

Super-types:	SituationRecord < **OperatorAction** (by extension)

Sub-types:	None

Name	OperatorAction
Abstract	yes
Documentation	Actions that an authorised operator can decide to implement to prevent or help correct dangerous or poor driving conditions, or any actions affecting normal operation of a road.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
   <sit:situationRecordObservationTime> com:DateTime </sit:situationRecordObservationTime> [0..1] ?
   <sit:situationRecordFirstSupplierVersionTime> com:DateTime </sit:situationRecordFirstSupplierVersionTime> [0..1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:cause> sit:Cause </sit:cause> [0..1]
   <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
   <sit:_operatorActionExtension> sit:_OperatorActionExtensionType </sit:_operatorActionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OperatorAction" abstract="true">
  <xs:complexContent>
    <xs:extension base="sit:SituationRecord">
      <xs:sequence>
        <xs:element name="_operatorActionExtension" type="sit:_OperatorActionExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Situation

Super-types:	None
Sub-types:	None

Name	Situation
Abstract	no
Documentation	An identifiable instance of a traffic/travel situation comprising one or more traffic/travel circumstances which are linked by one or more causal relationships. Each traffic/travel circumstance is represented by a Situation Record.

XML Instance Representation

```
<...
 id="xs:string [1]">
   <sit:headerInformation> com:HeaderInformation </sit:headerInformation> [1]
   <sit:situationRecord> sit:SituationRecord </sit:situationRecord> [1..*] ?
   <sit:_situationExtension> com:_ExtensionType </sit:_situationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Situation">
  <xs:sequence>
    <xs:element name="headerInformation" type="com:HeaderInformation"/>
    <xs:element name="situationRecord" type="sit:SituationRecord" maxOccurs="unbounded"/>
    <xs:element name="_situationExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="id" type="xs:string" use="required"/>
</xs:complexType>
```

top

Complex Type: SituationPublication

Super-types:	com:PayloadPublication < **SituationPublication** (by extension)
Sub-types:	None

Name	SituationPublication
Abstract	no
Documentation	A publication containing zero or more traffic/travel situations.

XML Instance Representation

```
<...>
   <!-- 'com:PayloadPublication' super type was not found in this schema. Some elements and attributes may be
   missing. -->
   <sit:situation> sit:Situation </sit:situation> [0..*]
   <sit:_situationPublicationExtension> com:_ExtensionType </sit:_situationPublicationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SituationPublication">
  <xs:complexContent>
    <xs:extension base="com:PayloadPublication">
      <xs:sequence>
```

```
        <xs:element name="situation" type="sit:Situation" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="_situationPublicationExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: SituationRecord

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

Name	SituationRecord
Abstract	yes
Documentation	An identifiable versioned instance of a single record/element within a situation.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
   <sit:situationRecordObservationTime> com:DateTime </sit:situationRecordObservationTime> [0..1] ?
   <sit:situationRecordFirstSupplierVersionTime> com:DateTime </sit:situationRecordFirstSupplierVersionTime> [0..1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:cause> sit:Cause </sit:cause> [0..1]
   <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SituationRecord" abstract="true">
  <xs:sequence>
    <xs:element name="situationRecordCreationReference" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="situationRecordObservationTime" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
    <xs:element name="situationRecordFirstSupplierVersionTime" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
    <xs:element name="validity" type="com:Validity"/>
    <xs:element name="cause" type="sit:Cause" minOccurs="0"/>
    <xs:element name="generalPublicComment" type="sit:Comment" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_situationRecordExtension" 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: SituationRecordReference

Super-types:	com:GlobalReference < **SituationRecordReference** (by extension)
Sub-types:	None

Name	SituationRecordReference
Abstract	no
Documentation	Reference to a SituationRecord

XML Instance Representation

```
<...>
  <!-- 'com:GlobalReference' super type was not found in this schema. Some elements and attributes may be missing. -
  ->
  <sit:objectReference> sit:_SituationRecordVersionedReference </sit:objectReference> [1] ?
  <sit:_situationRecordReferenceExtension> com:_ExtensionType </sit:_situationRecordReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SituationRecordReference">
  <xs:complexContent>
    <xs:extension base="com:GlobalReference">
      <xs:sequence>
        <xs:element name="objectReference" type="sit:_SituationRecordVersionedReference" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="_situationRecordReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _AbnormalTrafficTypeEnum

Super-types:	xs:string < AbnormalTrafficTypeEnum (by restriction) < **_AbnormalTrafficTypeEnum** (by extension)
Sub-types:	None

Name	_AbnormalTrafficTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_AbnormalTrafficTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:AbnormalTrafficTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _AccidentTypeEnum

Super-types:	xs:string < AccidentTypeEnum (by restriction) < **_AccidentTypeEnum** (by extension)
Sub-types:	None

Name	_AccidentTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_AccidentTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:AccidentTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _AnimalPresenceTypeEnum

Super-types:	xs:string < AnimalPresenceTypeEnum (by restriction) < **_AnimalPresenceTypeEnum** (by extension)
Sub-types:	None

Name	_AnimalPresenceTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_AnimalPresenceTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:AnimalPresenceTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _AuthorityOperationTypeEnum

Super-types:	xs:string < AuthorityOperationTypeEnum (by restriction) < **_AuthorityOperationTypeEnum** (by extension)
Sub-types:	None

Name	_AuthorityOperationTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_AuthorityOperationTypeEnum">
  <xs:simpleContent>
```

```
    <xs:extension base="sit:AuthorityOperationTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _CauseTypeEnum

Super-types:	xs:string < CauseTypeEnum (by restriction) < **_CauseTypeEnum** (by extension)
Sub-types:	None

Name	_CauseTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_CauseTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:CauseTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _CommentTypeEnum

Super-types:	xs:string < CommentTypeEnum (by restriction) < **_CommentTypeEnum** (by extension)
Sub-types:	None

Name	_CommentTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_CommentTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:CommentTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _ComplianceOptionEnum

Super-types:	xs:string < ComplianceOptionEnum (by restriction) < **_ComplianceOptionEnum** (by extension)
Sub-types:	None

Name	_ComplianceOptionEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_ComplianceOptionEnum">
  <xs:simpleContent>
    <xs:extension base="sit:ComplianceOptionEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _ConstructionWorkTypeEnum

Super-types:	xs:string < ConstructionWorkTypeEnum (by restriction) < **_ConstructionWorkTypeEnum** (by extension)
Sub-types:	None

Name	_ConstructionWorkTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_ConstructionWorkTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:ConstructionWorkTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DisturbanceActivityTypeEnum

Super-types:	xs:string < DisturbanceActivityTypeEnum (by restriction) < **_DisturbanceActivityTypeEnum** (by extension)
Sub-types:	None

Name	_DisturbanceActivityTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_DisturbanceActivityTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:DisturbanceActivityTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DrivingConditionTypeEnum

Super-types:	xs:string < DrivingConditionTypeEnum (by restriction) < **_DrivingConditionTypeEnum** (by extension)
Sub-types:	None

Name	_DrivingConditionTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_DrivingConditionTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:DrivingConditionTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _EnvironmentalObstructionTypeEnum

Super-types:	xs:string < EnvironmentalObstructionTypeEnum (by restriction) < **_EnvironmentalObstructionTypeEnum** (by extension)
Sub-types:	None

Name	_EnvironmentalObstructionTypeEnum
Abstract	no

XML Instance Representation

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

```
  sit:EnvironmentalObstructionTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_EnvironmentalObstructionTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:EnvironmentalObstructionTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _EquipmentOrSystemFaultTypeEnum

Super-types:	xs:string < EquipmentOrSystemFaultTypeEnum (by restriction) < **_EquipmentOrSystemFaultTypeEnum** (by extension)
Sub-types:	None

Name	_EquipmentOrSystemFaultTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_EquipmentOrSystemFaultTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:EquipmentOrSystemFaultTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _GeneralInstructionToRoadUsersTypeEnum

Super-types:	xs:string < GeneralInstructionToRoadUsersTypeEnum (by restriction) < **_GeneralInstructionToRoadUsersTypeEnum** (by extension)
Sub-types:	None

Name	_GeneralInstructionToRoadUsersTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_GeneralInstructionToRoadUsersTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:GeneralInstructionToRoadUsersTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _GeneralNetworkManagementTypeEnum

Super-types:	xs:string < GeneralNetworkManagementTypeEnum (by restriction) < **_GeneralNetworkManagementTypeEnum** (by extension)
Sub-types:	None

Name	_GeneralNetworkManagementTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_GeneralNetworkManagementTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:GeneralNetworkManagementTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
```

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

top

Complex Type: _InfrastructureDamageTypeEnum

Super-types:	xs:string < InfrastructureDamageTypeEnum (by restriction) < **_InfrastructureDamageTypeEnum** (by extension)
Sub-types:	None

Name	_InfrastructureDamageTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_InfrastructureDamageTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:InfrastructureDamageTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _NonWeatherRelatedRoadConditionTypeEnum

Super-types:	xs:string < NonWeatherRelatedRoadConditionTypeEnum (by restriction) < **_NonWeatherRelatedRoadConditionTypeEnum** (by extension)
Sub-types:	None

Name	_NonWeatherRelatedRoadConditionTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_NonWeatherRelatedRoadConditionTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:NonWeatherRelatedRoadConditionTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _ObstructionTypeEnum

Super-types:	xs:string < ObstructionTypeEnum (by restriction) < **_ObstructionTypeEnum** (by extension)
Sub-types:	None

Name	_ObstructionTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_ObstructionTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:ObstructionTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _OperatorActionExtensionType

Super-types:	None

Sub-types:	None

Name	_OperatorActionExtensionType
Abstract	no

XML Instance Representation

```
<...>
  <sit:operatorActionExtendedTmplan> tmp:OperatorActionExtendedTmplan </sit:operatorActionExtendedTmplan> [0..1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_OperatorActionExtensionType">
  <xs:sequence>
    <xs:element name="operatorActionExtendedTmplan" type="tmp:OperatorActionExtendedTmplan" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: _PlacesEnum

Super-types:	xs:string < PlacesEnum (by restriction) < **_PlacesEnum** (by extension)
Sub-types:	None

Name	_PlacesEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_PlacesEnum">
  <xs:simpleContent>
    <xs:extension base="sit:PlacesEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _PoorEnvironmentTypeEnum

Super-types:	xs:string < PoorEnvironmentTypeEnum (by restriction) < **_PoorEnvironmentTypeEnum** (by extension)
Sub-types:	None

Name	_PoorEnvironmentTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_PoorEnvironmentTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:PoorEnvironmentTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _ReroutingManagementTypeEnum

Super-types:	xs:string < ReroutingManagementTypeEnum (by restriction) < **_ReroutingManagementTypeEnum** (by extension)
Sub-types:	None

Name	_ReroutingManagementTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_ReroutingManagementTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:ReroutingManagementTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _RoadMaintenanceTypeEnum

Super-types:	xs:string < RoadMaintenanceTypeEnum (by restriction) < **_RoadMaintenanceTypeEnum** (by extension)
Sub-types:	None

Name	_RoadMaintenanceTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_RoadMaintenanceTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:RoadMaintenanceTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _RoadOperatorServiceDisruptionTypeEnum

Super-types:	xs:string < RoadOperatorServiceDisruptionTypeEnum (by restriction) < **_RoadOperatorServiceDisruptionTypeEnum** (by extension)
Sub-types:	None

Name	_RoadOperatorServiceDisruptionTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_RoadOperatorServiceDisruptionTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:RoadOperatorServiceDisruptionTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _RoadOrCarriagewayOrLaneManagementTypeEnum

Super-types:	xs:string < RoadOrCarriagewayOrLaneManagementTypeEnum (by restriction) < **_RoadOrCarriagewayOrLaneManagementTypeEnum** (by extension)
Sub-types:	None

Name	_RoadOrCarriagewayOrLaneManagementTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_RoadOrCarriagewayOrLaneManagementTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:RoadOrCarriagewayOrLaneManagementTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _RoadsideAssistanceTypeEnum

Super-types:	xs:string < RoadsideAssistanceTypeEnum (by restriction) < **_RoadsideAssistanceTypeEnum** (by extension)
Sub-types:	None

Name	_RoadsideAssistanceTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_RoadsideAssistanceTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:RoadsideAssistanceTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _ServiceDisruptionTypeEnum

Super-types:	xs:string < ServiceDisruptionTypeEnum (by restriction) < **_ServiceDisruptionTypeEnum** (by extension)
Sub-types:	None

Name	_ServiceDisruptionTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_ServiceDisruptionTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:ServiceDisruptionTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _SituationRecordVersionedReference

Super-types:	com:VersionedReference < **_SituationRecordVersionedReference** (by extension)
Sub-types:	None

Name	_SituationRecordVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="sit:SituationRecord [1]">
  <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
  missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_SituationRecordVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="sit:SituationRecord"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _SpeedManagementTypeEnum

Super-types:	xs:string < SpeedManagementTypeEnum (by restriction) < **_SpeedManagementTypeEnum** (by extension)
Sub-types:	None

Name	_SpeedManagementTypeEnum

Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_SpeedManagementTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:SpeedManagementTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TrafficTypeEnum

Super-types:	xs:string < TrafficTypeEnum (by restriction) < **_TrafficTypeEnum** (by extension)
Sub-types:	None

Name _TrafficTypeEnum

Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_TrafficTypeEnum">
  <xs:simpleContent>
    <xs:extension base="sit:TrafficTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TransitServiceInformationEnum

Super-types:	xs:string < TransitServiceInformationEnum (by restriction) < **_TransitServiceInformationEnum** (by extension)
Sub-types:	None

Name _TransitServiceInformationEnum

Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_TransitServiceInformationEnum">
  <xs:simpleContent>
    <xs:extension base="sit:TransitServiceInformationEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _VehicleObstructionTypeEnum

Super-types:	xs:string < VehicleObstructionTypeEnum (by restriction) < **_VehicleObstructionTypeEnum** (by extension)
Sub-types:	None

Name _VehicleObstructionTypeEnum

Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_VehicleObstructionTypeEnum">
```

```
  <xs:simpleContent>
    <xs:extension base="sit:VehicleObstructionTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Simple Type: AbnormalTrafficTypeEnum

Super-types:	xs:string < **AbnormalTrafficTypeEnum** (by restriction)
Sub-types:	• _AbnormalTrafficTypeEnum (by extension)

Name	AbnormalTrafficTypeEnum
Content	• Base XSD Type: string • *value* comes from list: {'stationaryTraffic'|'queuingTraffic'|'slowTraffic'|'heavyTraffic'|'unspecifiedAbnormalTraffic'|'other'|'_extended'}
Documentation	Descriptive terms for abnormal traffic conditions specifically relating to the nature of the traffic movement, implying levels of service.

Schema Component Representation

```
<xs:simpleType name="AbnormalTrafficTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="stationaryTraffic"/>
    <xs:enumeration value="queuingTraffic"/>
    <xs:enumeration value="slowTraffic"/>
    <xs:enumeration value="heavyTraffic"/>
    <xs:enumeration value="unspecifiedAbnormalTraffic"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: AccidentTypeEnum

Super-types:	xs:string < **AccidentTypeEnum** (by restriction)
Sub-types:	• _AccidentTypeEnum (by extension)

Name	AccidentTypeEnum
Content	• Base XSD Type: string • *value* comes from list: {'accident'|'accidentInvolvingHazardousMaterials'|'accidentInvolvingHeavyLorries'|'accidentInvolvingMassTransitVehicle'|'accidentInvolvingPublicTran
Documentation	Collection of descriptive terms for types of accidents.

Schema Component Representation

```
<xs:simpleType name="AccidentTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="accident"/>
    <xs:enumeration value="accidentInvolvingHazardousMaterials"/>
    <xs:enumeration value="accidentInvolvingHeavyLorries"/>
    <xs:enumeration value="accidentInvolvingMassTransitVehicle"/>
    <xs:enumeration value="accidentInvolvingPublicTransport"/>
    <xs:enumeration value="accidentInvolvingRadioactiveMaterial"/>
    <xs:enumeration value="accidentInvolvingTrain"/>
    <xs:enumeration value="collision"/>
    <xs:enumeration value="multipleVehicleAccident"/>
    <xs:enumeration value="secondaryAccident"/>
    <xs:enumeration value="seriousInjuryOrFatalAccident"/>
    <xs:enumeration value="vehicleStuckUnderBridge"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: AnimalPresenceTypeEnum

Super-types:	xs:string < **AnimalPresenceTypeEnum** (by restriction)
Sub-types:	• _AnimalPresenceTypeEnum (by extension)

Name	AnimalPresenceTypeEnum
Content	• Base XSD Type: string • *value* comes from list: {'animalsOnTheRoad'|'herdOfAnimalsOnTheRoad'|'largeAnimalsOnTheRoad'|'smallAnimalsOnTheRoad'|'wildAnimalsOnTheRoad'|'_extended'}
Documentation	Types of animal presence.

Schema Component Representation

```
<xs:simpleType name="AnimalPresenceTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="animalsOnTheRoad"/>
    <xs:enumeration value="herdOfAnimalsOnTheRoad"/>
    <xs:enumeration value="largeAnimalsOnTheRoad"/>
    <xs:enumeration value="smallAnimalsOnTheRoad"/>
    <xs:enumeration value="wildAnimalsOnTheRoad"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: AuthorityOperationTypeEnum

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

Sub-types:

- _AuthorityOperationTypeEnum (by extension)

Name AuthorityOperationTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
  {'accidentInvestigationWork'|'bombSquadInAction'|'civilEmergency'|'customsOperation'|'juridicalReconstruction'|'policeCheckPoint'|'policeInvestigatio

Documentation Types of authority operations.

Schema Component Representation

```
<xs:simpleType name="AuthorityOperationTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="accidentInvestigationWork"/>
    <xs:enumeration value="bombSquadInAction"/>
    <xs:enumeration value="civilEmergency"/>
    <xs:enumeration value="customsOperation"/>
    <xs:enumeration value="juridicalReconstruction"/>
    <xs:enumeration value="policeCheckPoint"/>
    <xs:enumeration value="policeInvestigation"/>
    <xs:enumeration value="roadOperatorCheckPoint"/>
    <xs:enumeration value="snowChainOnBoardOrSnowTyresMountedCheck"/>
    <xs:enumeration value="snowChainOrSnowTyresMountedCheck"/>
    <xs:enumeration value="survey"/>
    <xs:enumeration value="transportOfVip"/>
    <xs:enumeration value="undefinedAuthorityActivity"/>
    <xs:enumeration value="vehicleInspectionCheckPoint"/>
    <xs:enumeration value="vehicleWeighing"/>
    <xs:enumeration value="weighInMotion"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: CauseTypeEnum

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

Sub-types:

- _CauseTypeEnum (by extension)

Name CauseTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
  {'abnormalTraffic'|'accident'|'animalPresence'|'authorityOperation'|'constructionWork'|'disturbance'|'drivingConditions'|'environmentalObstruction'|'equi

Documentation Types of causes of situations which are not managed or are off network.

Schema Component Representation

```
<xs:simpleType name="CauseTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="abnormalTraffic"/>
    <xs:enumeration value="accident"/>
    <xs:enumeration value="animalPresence"/>
    <xs:enumeration value="authorityOperation"/>
    <xs:enumeration value="constructionWork"/>
    <xs:enumeration value="disturbance"/>
    <xs:enumeration value="drivingConditions"/>
    <xs:enumeration value="environmentalObstruction"/>
    <xs:enumeration value="equipmentOrSystemFault"/>
    <xs:enumeration value="infrastructureDamageObstruction"/>
    <xs:enumeration value="instructionToRoadUsers"/>
    <xs:enumeration value="networkManagement"/>
    <xs:enumeration value="nonWeatherRelatedRoadConditions"/>
    <xs:enumeration value="obstruction"/>
    <xs:enumeration value="poorEnvironment"/>
    <xs:enumeration value="publicEvent"/>
    <xs:enumeration value="rerouting"/>
    <xs:enumeration value="roadMaintenance"/>
    <xs:enumeration value="roadOperatorServiceDisruption"/>
    <xs:enumeration value="roadOrCarriagewayOrLaneManagement"/>
    <xs:enumeration value="roadsideAssistance"/>
    <xs:enumeration value="roadsideServiceDisruption"/>
    <xs:enumeration value="speedManagement"/>
    <xs:enumeration value="transitServiceDisruption"/>
```

```
      <xs:enumeration value="vehicleObstruction"/>
      <xs:enumeration value="weatherRelatedRoadConditions"/>
      <xs:enumeration value="winterEquipmentManagement"/>
      <xs:enumeration value="earlierEvent"/>
      <xs:enumeration value="earlierIncident"/>
      <xs:enumeration value="holidayTraffic"/>
      <xs:enumeration value="problemsAtBorderPost"/>
      <xs:enumeration value="problemsAtCustomPost"/>
      <xs:enumeration value="problemsOnLocalRoads"/>
      <xs:enumeration value="roadsideEvent"/>
      <xs:enumeration value="rubberNecking"/>
      <xs:enumeration value="technicalProblems"/>
      <xs:enumeration value="vandalism"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: CommentTypeEnum

Super-types:	xs:string < **CommentTypeEnum** (by restriction)
Sub-types:	• _CommentTypeEnum (by extension)

Name CommentTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'abnormalLoadMovementNote'|'dataProcessingNote'|'description'|'internalNote'|'roadworksName'|'warning'|'other'|'_extended'}

Documentation Classification of comment types.

Schema Component Representation

```
<xs:simpleType name="CommentTypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="abnormalLoadMovementNote"/>
      <xs:enumeration value="dataProcessingNote"/>
      <xs:enumeration value="description"/>
      <xs:enumeration value="internalNote"/>
      <xs:enumeration value="roadworksName"/>
      <xs:enumeration value="warning"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ComplianceOptionEnum

Super-types:	xs:string < **ComplianceOptionEnum** (by restriction)
Sub-types:	• _ComplianceOptionEnum (by extension)

Name ComplianceOptionEnum

Content

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

Documentation Types of compliance.

Schema Component Representation

```
<xs:simpleType name="ComplianceOptionEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="advisory"/>
      <xs:enumeration value="mandatory"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ConstructionWorkTypeEnum

Super-types:	xs:string < **ConstructionWorkTypeEnum** (by restriction)
Sub-types:	• _ConstructionWorkTypeEnum (by extension)

Name ConstructionWorkTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'blastingWork'|'constructionWork'|'demolitionWork'|'roadImprovementOrUpgrading'|'roadWideningWork'|'_extended'}

Documentation Types of works relating to construction.

Schema Component Representation

```
<xs:simpleType name="ConstructionWorkTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="blastingWork"/>
    <xs:enumeration value="constructionWork"/>
    <xs:enumeration value="demolitionWork"/>
    <xs:enumeration value="roadImprovementOrUpgrading"/>
    <xs:enumeration value="roadWideningWork"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: DisturbanceActivityTypeEnum

Super-types:	xs:string < **DisturbanceActivityTypeEnum** (by restriction)
Sub-types:	• _DisturbanceActivityTypeEnum (by extension)

Name DisturbanceActivityTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'airRaid'|'altercationOfVehicleOccupants'|'assault'|'assetDestruction'|'attack'|'attackOnVehicle'|'blockadeOrBarrier'|'bombAlert'|'crowd'|'demonstration'

Documentation Types of disturbance activities.

Schema Component Representation

```
<xs:simpleType name="DisturbanceActivityTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="airRaid"/>
    <xs:enumeration value="altercationOfVehicleOccupants"/>
    <xs:enumeration value="assault"/>
    <xs:enumeration value="assetDestruction"/>
    <xs:enumeration value="attack"/>
    <xs:enumeration value="attackOnVehicle"/>
    <xs:enumeration value="blockadeOrBarrier"/>
    <xs:enumeration value="bombAlert"/>
    <xs:enumeration value="crowd"/>
    <xs:enumeration value="demonstration"/>
    <xs:enumeration value="evacuation"/>
    <xs:enumeration value="filterBlockade"/>
    <xs:enumeration value="goSlowOperation"/>
    <xs:enumeration value="gunfireOnRoadway"/>
    <xs:enumeration value="illVehicleOccupants"/>
    <xs:enumeration value="march"/>
    <xs:enumeration value="peopleThrowingObjectsOnTheRoad"/>
    <xs:enumeration value="publicDisturbance"/>
    <xs:enumeration value="radioactiveLeakAlert"/>
    <xs:enumeration value="riot"/>
    <xs:enumeration value="sabotage"/>
    <xs:enumeration value="securityAlert"/>
    <xs:enumeration value="securityIncident"/>
    <xs:enumeration value="sightseersObstructingAccess"/>
    <xs:enumeration value="strike"/>
    <xs:enumeration value="terroristIncident"/>
    <xs:enumeration value="theft"/>
    <xs:enumeration value="toxicCloudAlert"/>
    <xs:enumeration value="unspecifiedAlert"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: DrivingConditionTypeEnum

Super-types:	xs:string < **DrivingConditionTypeEnum** (by restriction)
Sub-types:	• _DrivingConditionTypeEnum (by extension)

Name DrivingConditionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'impossible'|'hazardous'|'normal'|'passableWithCare'|'unknown'|'veryHazardous'|'winterConditions'|'other'|'_extended'}

Documentation Types of the perceived driving conditions.

Schema Component Representation

```
<xs:simpleType name="DrivingConditionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="impossible"/>
    <xs:enumeration value="hazardous"/>
    <xs:enumeration value="normal"/>
    <xs:enumeration value="passableWithCare"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="veryHazardous"/>
    <xs:enumeration value="winterConditions"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: EnvironmentalObstructionTypeEnum

Super-types:	xs:string < **EnvironmentalObstructionTypeEnum** (by restriction)
Sub-types:	• _EnvironmentalObstructionTypeEnum (by extension)

Name EnvironmentalObstructionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'avalanches'|'earthquakeDamage'|'fallenTrees'|'fallingIce'|'fallingLightIceOrSnow'|'flashFloods'|'flooding'|'forestFire'|'grassFire'|'landslips'|'mudSlide'|'s

Documentation Types of environmental obstructions.

Schema Component Representation

```
<xs:simpleType name="EnvironmentalObstructionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="avalanches"/>
    <xs:enumeration value="earthquakeDamage"/>
    <xs:enumeration value="fallenTrees"/>
    <xs:enumeration value="fallingIce"/>
    <xs:enumeration value="fallingLightIceOrSnow"/>
    <xs:enumeration value="flashFloods"/>
    <xs:enumeration value="flooding"/>
    <xs:enumeration value="forestFire"/>
    <xs:enumeration value="grassFire"/>
    <xs:enumeration value="landslips"/>
    <xs:enumeration value="mudSlide"/>
    <xs:enumeration value="sewerOverflow"/>
    <xs:enumeration value="rockfalls"/>
    <xs:enumeration value="seriousFire"/>
    <xs:enumeration value="smokeOrFumes"/>
    <xs:enumeration value="stormDamage"/>
    <xs:enumeration value="subsidence"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: EquipmentOrSystemFaultTypeEnum

Super-types:	xs:string < **EquipmentOrSystemFaultTypeEnum** (by restriction)
Sub-types:	• _EquipmentOrSystemFaultTypeEnum (by extension)

Name EquipmentOrSystemFaultTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'notWorking'|'outOfService'|'workingIncorrectly'|'workingIntermittently'|'_extended'}

Documentation Types of fault, malfunctioning or non operational conditions of equipment or systems.

Schema Component Representation

```
<xs:simpleType name="EquipmentOrSystemFaultTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="notWorking"/>
    <xs:enumeration value="outOfService"/>
    <xs:enumeration value="workingIncorrectly"/>
    <xs:enumeration value="workingIntermittently"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: GeneralInstructionToRoadUsersTypeEnum

Super-types:	xs:string < **GeneralInstructionToRoadUsersTypeEnum** (by restriction)
Sub-types:	• _GeneralInstructionToRoadUsersTypeEnum (by extension)

Name GeneralInstructionToRoadUsersTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'allowEmergencyVehiclesToPass'|'approachWithCare'|'avoidTheArea'|'closeAllWindowsTurnOffHeaterAndVents'|'crossJunctionWithCare'|'doNotAllo

Documentation General instructions that may be issued to road users (specifically drivers and sometimes passengers) by an operator or operational system in support of netw

Schema Component Representation

```
<xs:simpleType name="GeneralInstructionToRoadUsersTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="allowEmergencyVehiclesToPass"/>
    <xs:enumeration value="approachWithCare"/>
```

```
    <xs:enumeration value="avoidTheArea"/>
    <xs:enumeration value="closeAllWindowsTurnOffHeaterAndVents"/>
    <xs:enumeration value="crossJunctionWithCare"/>
    <xs:enumeration value="doNotAllowUnnecessaryGaps"/>
    <xs:enumeration value="doNotLeaveYourVehicle"/>
    <xs:enumeration value="doNotThrowOutAnyBurningObjects"/>
    <xs:enumeration value="doNotUseNavigationSystems"/>
    <xs:enumeration value="driveCarefully"/>
    <xs:enumeration value="driveWithExtremeCaution"/>
    <xs:enumeration value="flashYourLights"/>
    <xs:enumeration value="followTheVehicleInFrontSmoothly"/>
    <xs:enumeration value="increaseNormalFollowingDistance"/>
    <xs:enumeration value="inEmergencyWaitForPatrolService"/>
    <xs:enumeration value="keepYourDistance"/>
    <xs:enumeration value="leaveYourVehicleProceedToNextSafePlace"/>
    <xs:enumeration value="noNakedFlames"/>
    <xs:enumeration value="noOvertaking"/>
    <xs:enumeration value="noSmoking"/>
    <xs:enumeration value="noStopping"/>
    <xs:enumeration value="noUturns"/>
    <xs:enumeration value="observeAmberAlert"/>
    <xs:enumeration value="observeSignals"/>
    <xs:enumeration value="observeSigns"/>
    <xs:enumeration value="onlyTravelIfAbsolutelyNecessary"/>
    <xs:enumeration value="overtakeWithCare"/>
    <xs:enumeration value="pullOverToTheEdgeOfTheRoadway"/>
    <xs:enumeration value="stopAtNextSafePlace"/>
    <xs:enumeration value="stopAtNextServiceArea"/>
    <xs:enumeration value="switchOffEngine"/>
    <xs:enumeration value="switchOffMobilePhonesAndTwoWayRadios"/>
    <xs:enumeration value="testYourBrakes"/>
    <xs:enumeration value="useBusService"/>
    <xs:enumeration value="useFogLights"/>
    <xs:enumeration value="useHazardWarningLights"/>
    <xs:enumeration value="useHeadlights"/>
    <xs:enumeration value="useRailService"/>
    <xs:enumeration value="useTramService"/>
    <xs:enumeration value="useUndergroundService"/>
    <xs:enumeration value="waitForEscortVehicle"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: GeneralNetworkManagementTypeEnum

Super-types:	xs:string < **GeneralNetworkManagementTypeEnum** (by restriction)
Sub-types:	• _GeneralNetworkManagementTypeEnum (by extension)

Name GeneralNetworkManagementTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'bridgeSwingInOperation'|'convoyService'|'obstacleSignalling'|'rampMeteringInOperation'|'temporaryTrafficLights'|'tollGatesOpen'|'trafficBeingManual

Documentation Types of network management actions.

Schema Component Representation

```
<xs:simpleType name="GeneralNetworkManagementTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="bridgeSwingInOperation"/>
    <xs:enumeration value="convoyService"/>
    <xs:enumeration value="obstacleSignalling"/>
    <xs:enumeration value="rampMeteringInOperation"/>
    <xs:enumeration value="temporaryTrafficLights"/>
    <xs:enumeration value="tollGatesOpen"/>
    <xs:enumeration value="trafficBeingManuallyDirected"/>
    <xs:enumeration value="trafficHeld"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: InfrastructureDamageTypeEnum

Super-types:	xs:string < **InfrastructureDamageTypeEnum** (by restriction)
Sub-types:	• _InfrastructureDamageTypeEnum (by extension)

Name InfrastructureDamageTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'burstPipe'|'burstWaterMain'|'collapsedSewer'|'damagedBridge'|'damagedCrashBarrier'|'damagedFlyover'|'damagedGallery'|'damagedGantry'|'damag

Documentation Types of infrastructure damage which may have an effect on the road network.

Schema Component Representation

```
<xs:simpleType name="InfrastructureDamageTypeEnum">
```

```
  <xs:restriction base="xs:string">
    <xs:enumeration value="burstPipe"/>
    <xs:enumeration value="burstWaterMain"/>
    <xs:enumeration value="collapsedSewer"/>
    <xs:enumeration value="damagedBridge"/>
    <xs:enumeration value="damagedCrashBarrier"/>
    <xs:enumeration value="damagedFlyover"/>
    <xs:enumeration value="damagedGallery"/>
    <xs:enumeration value="damagedGantry"/>
    <xs:enumeration value="damagedRoadSurface"/>
    <xs:enumeration value="damagedTunnel"/>
    <xs:enumeration value="damagedViaduct"/>
    <xs:enumeration value="fallenPowerCables"/>
    <xs:enumeration value="gasLeak"/>
    <xs:enumeration value="weakBridge"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: NonWeatherRelatedRoadConditionTypeEnum

Super-types:	xs:string < **NonWeatherRelatedRoadConditionTypeEnum** (by restriction)
Sub-types:	• _NonWeatherRelatedRoadConditionTypeEnum (by extension)

Name NonWeatherRelatedRoadConditionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'dieselOnRoad'|'leavesOnRoad'|'looseChippings'|'looseSandOnRoad'|'mudOnRoad'|'oilOnRoad'|'petrolOnRoad'|'roadMarkingNotPresent'|'roadSurfa

Documentation Types of road surface conditions which are not related to the weather.

Schema Component Representation

```
<xs:simpleType name="NonWeatherRelatedRoadConditionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="dieselOnRoad"/>
    <xs:enumeration value="leavesOnRoad"/>
    <xs:enumeration value="looseChippings"/>
    <xs:enumeration value="looseSandOnRoad"/>
    <xs:enumeration value="mudOnRoad"/>
    <xs:enumeration value="oilOnRoad"/>
    <xs:enumeration value="petrolOnRoad"/>
    <xs:enumeration value="roadMarkingNotPresent"/>
    <xs:enumeration value="roadSurfaceInPoorCondition"/>
    <xs:enumeration value="slipperyRoad"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ObstructionTypeEnum

Super-types:	xs:string < **ObstructionTypeEnum** (by restriction)
Sub-types:	• _ObstructionTypeEnum (by extension)

Name ObstructionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'airCrash'|'childrenOnRoadway'|'clearanceWork'|'craneOperating'|'cyclistsOnRoadway'|'debris'|'explosion'|'explosionHazard'|'hazardsOnTheRoad'|'in

Documentation Types of obstructions on the roadway.

Schema Component Representation

```
<xs:simpleType name="ObstructionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="airCrash"/>
    <xs:enumeration value="childrenOnRoadway"/>
    <xs:enumeration value="clearanceWork"/>
    <xs:enumeration value="craneOperating"/>
    <xs:enumeration value="cyclistsOnRoadway"/>
    <xs:enumeration value="debris"/>
    <xs:enumeration value="explosion"/>
    <xs:enumeration value="explosionHazard"/>
    <xs:enumeration value="hazardsOnTheRoad"/>
    <xs:enumeration value="incident"/>
    <xs:enumeration value="industrialAccident"/>
    <xs:enumeration value="objectOnTheRoad"/>
    <xs:enumeration value="objectsFallingFromMovingVehicle"/>
    <xs:enumeration value="obstructionOnTheRoad"/>
    <xs:enumeration value="peopleOnRoadway"/>
    <xs:enumeration value="railCrash"/>
    <xs:enumeration value="rescueAndRecoveryWork"/>
    <xs:enumeration value="severeFrostDamagedRoadway"/>
    <xs:enumeration value="shedLoad"/>
    <xs:enumeration value="snowAndIceDebris"/>
    <xs:enumeration value="spillageOccurringFromMovingVehicle"/>
```

```
    <xs:enumeration value="spillageOnTheRoad"/>
    <xs:enumeration value="unprotectedAccidentArea"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: PlacesEnum

Super-types:	xs:string < **PlacesEnum** (by restriction)
Sub-types:	• _PlacesEnum (by extension)

Name PlacesEnum

Content

- Base XSD Type: string
- *value* comes from list: {'aroundBendsInTheRoad'|'atCustomsPosts'|'atHighAltitudes'|'atRestAreas'|'atServiceAreas'|'atTollPlazas'|'inBuiltUpAreas'|'inContraflowSections'|'inF

Documentation List of types of places.

Schema Component Representation

```
<xs:simpleType name="PlacesEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="aroundBendsInTheRoad"/>
    <xs:enumeration value="atCustomsPosts"/>
    <xs:enumeration value="atHighAltitudes"/>
    <xs:enumeration value="atRestAreas"/>
    <xs:enumeration value="atServiceAreas"/>
    <xs:enumeration value="atTollPlazas"/>
    <xs:enumeration value="inBuiltUpAreas"/>
    <xs:enumeration value="inContraflowSections"/>
    <xs:enumeration value="inForestedAreas"/>
    <xs:enumeration value="inGalleries"/>
    <xs:enumeration value="inLowLyingAreas"/>
    <xs:enumeration value="inRoadworksAreas"/>
    <xs:enumeration value="inRuralAreas"/>
    <xs:enumeration value="inShadedAreas"/>
    <xs:enumeration value="inTheInnerCityAreas"/>
    <xs:enumeration value="inTheCityCentre"/>
    <xs:enumeration value="inTunnels"/>
    <xs:enumeration value="onBridges"/>
    <xs:enumeration value="onDownHillSections"/>
    <xs:enumeration value="onDualCarriagewaySections"/>
    <xs:enumeration value="onElevatedSections"/>
    <xs:enumeration value="onEnteringOrLeavingTunnels"/>
    <xs:enumeration value="onEnteringTheCountry"/>
    <xs:enumeration value="onFlyovers"/>
    <xs:enumeration value="onLeavingTheCountry"/>
    <xs:enumeration value="onMotorways"/>
    <xs:enumeration value="onNonMotorways"/>
    <xs:enumeration value="onPasses"/>
    <xs:enumeration value="onRoundabouts"/>
    <xs:enumeration value="onSingleCarriagewaySections"/>
    <xs:enumeration value="onSlipRoads"/>
    <xs:enumeration value="onUndergroundSections"/>
    <xs:enumeration value="onUnderpasses"/>
    <xs:enumeration value="onUpHillSections"/>
    <xs:enumeration value="overTheCrestOfHills"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: PoorEnvironmentTypeEnum

Super-types:	xs:string < **PoorEnvironmentTypeEnum** (by restriction)
Sub-types:	• _PoorEnvironmentTypeEnum (by extension)

Name PoorEnvironmentTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'badWeather'|'blizzard'|'blowingDust'|'blowingSnow'|'crosswinds'|'damagingHail'|'denseFog'|'eclipse'|'extremeCold'|'extremeHeat'|'fog'|'freezingFog'|'fi

Documentation Types of poor environmental conditions.

Schema Component Representation

```
<xs:simpleType name="PoorEnvironmentTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="badWeather"/>
    <xs:enumeration value="blizzard"/>
    <xs:enumeration value="blowingDust"/>
    <xs:enumeration value="blowingSnow"/>
    <xs:enumeration value="crosswinds"/>
    <xs:enumeration value="damagingHail"/>
    <xs:enumeration value="denseFog"/>
    <xs:enumeration value="eclipse"/>
    <xs:enumeration value="extremeCold"/>
```

```
      <xs:enumeration value="extremeHeat"/>
      <xs:enumeration value="fog"/>
      <xs:enumeration value="freezingFog"/>
      <xs:enumeration value="frost"/>
      <xs:enumeration value="gales"/>
      <xs:enumeration value="gustyWinds"/>
      <xs:enumeration value="hail"/>
      <xs:enumeration value="heavyFrost"/>
      <xs:enumeration value="heavyRain"/>
      <xs:enumeration value="heavySnowfall"/>
      <xs:enumeration value="hurricaneForceWinds"/>
      <xs:enumeration value="lowSunGlare"/>
      <xs:enumeration value="moderateFog"/>
      <xs:enumeration value="nearbyFire"/>
      <xs:enumeration value="nearbyFlooding"/>
      <xs:enumeration value="ozonePollution"/>
      <xs:enumeration value="pollution"/>
      <xs:enumeration value="patchyFog"/>
      <xs:enumeration value="precipitationInTheArea"/>
      <xs:enumeration value="rain"/>
      <xs:enumeration value="rainChangingToSnow"/>
      <xs:enumeration value="sandStorms"/>
      <xs:enumeration value="severeExhaustPollution"/>
      <xs:enumeration value="severeSmog"/>
      <xs:enumeration value="showers"/>
      <xs:enumeration value="sleet"/>
      <xs:enumeration value="smogAlert"/>
      <xs:enumeration value="smokeHazard"/>
      <xs:enumeration value="snowChangingToRain"/>
      <xs:enumeration value="snowfall"/>
      <xs:enumeration value="sprayHazard"/>
      <xs:enumeration value="stormForceWinds"/>
      <xs:enumeration value="strongGustsOfWind"/>
      <xs:enumeration value="strongWinds"/>
      <xs:enumeration value="swarmsOfInsects"/>
      <xs:enumeration value="temperatureFalling"/>
      <xs:enumeration value="thunderstorms"/>
      <xs:enumeration value="tornadoes"/>
      <xs:enumeration value="veryStrongGustsOfWind"/>
      <xs:enumeration value="visibilityReduced"/>
      <xs:enumeration value="whiteOut"/>
      <xs:enumeration value="winterStorm"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ReroutingManagementTypeEnum

Super-types:	xs:string < **ReroutingManagementTypeEnum** (by restriction)
Sub-types:	• _ReroutingManagementTypeEnum (by extension)

Name ReroutingManagementTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'doNotFollowDiversionSigns'|'doNotUseEntry'|'doNotUseExit'|'doNotUseIntersectionOrJunction'|'followDiversionSigns'|'followLocalDiversion'|'followS

Documentation Management actions relating to rerouting.

Schema Component Representation

```
<xs:simpleType name="ReroutingManagementTypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="doNotFollowDiversionSigns"/>
      <xs:enumeration value="doNotUseEntry"/>
      <xs:enumeration value="doNotUseExit"/>
      <xs:enumeration value="doNotUseIntersectionOrJunction"/>
      <xs:enumeration value="followDiversionSigns"/>
      <xs:enumeration value="followLocalDiversion"/>
      <xs:enumeration value="followSpecialMarkers"/>
      <xs:enumeration value="useEntry"/>
      <xs:enumeration value="useExit"/>
      <xs:enumeration value="useIntersectionOrJunction"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: RoadMaintenanceTypeEnum

Super-types:	xs:string < **RoadMaintenanceTypeEnum** (by restriction)
Sub-types:	• _RoadMaintenanceTypeEnum (by extension)

Name RoadMaintenanceTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'accidentRepairWork'|'clearanceWork'|'controlledAvalanche'|'installationWork'|'grassCuttingWork'|'litterClearance'|'maintenanceWork'|'maintenanceP

Documentation Types of road maintenance.

Schema Component Representation

```
<xs:simpleType name="RoadMaintenanceTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="accidentRepairWork"/>
    <xs:enumeration value="clearanceWork"/>
    <xs:enumeration value="controlledAvalanche"/>
    <xs:enumeration value="installationWork"/>
    <xs:enumeration value="grassCuttingWork"/>
    <xs:enumeration value="litterClearance"/>
    <xs:enumeration value="maintenanceWork"/>
    <xs:enumeration value="maintenancePeopleOnRoad"/>
    <xs:enumeration value="overheadWorks"/>
    <xs:enumeration value="repairWork"/>
    <xs:enumeration value="resurfacingWork"/>
    <xs:enumeration value="roadMarkingWork"/>
    <xs:enumeration value="roadsideWork"/>
    <xs:enumeration value="roadworksClearance"/>
    <xs:enumeration value="roadworks"/>
    <xs:enumeration value="rockFallPreventativeMaintenance"/>
    <xs:enumeration value="saltingInProgress"/>
    <xs:enumeration value="snowploughsInUse"/>
    <xs:enumeration value="sweepingOfRoad"/>
    <xs:enumeration value="treeAndVegetationCuttingWork"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: RoadOperatorServiceDisruptionTypeEnum

Super-types:	xs:string < **RoadOperatorServiceDisruptionTypeEnum** (by restriction)
Sub-types:	• _RoadOperatorServiceDisruptionTypeEnum (by extension)

Name RoadOperatorServiceDisruptionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'emergencyTelephoneNumberOutOfService'|'informationServiceTelephoneNumberOutOfService'|'noTrafficOfficerPatrolService'|'_extended'}

Documentation Types of disruption to road operator services relevant to road users.

Schema Component Representation

```
<xs:simpleType name="RoadOperatorServiceDisruptionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="emergencyTelephoneNumberOutOfService"/>
    <xs:enumeration value="informationServiceTelephoneNumberOutOfService"/>
    <xs:enumeration value="noTrafficOfficerPatrolService"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: RoadOrCarriagewayOrLaneManagementTypeEnum

Super-types:	xs:string < **RoadOrCarriagewayOrLaneManagementTypeEnum** (by restriction)
Sub-types:	• _RoadOrCarriagewayOrLaneManagementTypeEnum (by extension)

Name RoadOrCarriagewayOrLaneManagementTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'carPoolLaneInOperation'|'carriagewayClosures'|'clearALaneForEmergencyVehicles'|'clearALaneForSnowploughsAndGrittingVehicles'|'closedPerma

Documentation Management actions relating to road, carriageway or lane usage.

Schema Component Representation

```
<xs:simpleType name="RoadOrCarriagewayOrLaneManagementTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="carPoolLaneInOperation"/>
    <xs:enumeration value="carriagewayClosures"/>
    <xs:enumeration value="clearALaneForEmergencyVehicles"/>
    <xs:enumeration value="clearALaneForSnowploughsAndGrittingVehicles"/>
    <xs:enumeration value="closedPermanentlyForTheWinter"/>
    <xs:enumeration value="contraflow"/>
    <xs:enumeration value="doNotUseSpecifiedLanesOrCarriageways"/>
    <xs:enumeration value="hardShoulderRunningInOperation"/>
    <xs:enumeration value="hardShoulderRunningNotInOperation"/>
    <xs:enumeration value="heightRestrictionInOperation"/>
    <xs:enumeration value="intermittentShortTermClosures"/>
    <xs:enumeration value="keepToTheLeft"/>
    <xs:enumeration value="keepToTheRight"/>
    <xs:enumeration value="laneClosures"/>
    <xs:enumeration value="lanesDeviated"/>
    <xs:enumeration value="narrowLanes"/>
    <xs:enumeration value="newRoadworksLayout"/>
    <xs:enumeration value="overnightClosures"/>
    <xs:enumeration value="roadCleared"/>
    <xs:enumeration value="roadClosed"/>
    <xs:enumeration value="rollingRoadBlock"/>
```

```
      <xs:enumeration value="rushHourLaneInOperation"/>
      <xs:enumeration value="singleAlternateLineTraffic"/>
      <xs:enumeration value="tidalFlowLaneInOperation"/>
      <xs:enumeration value="turnAroundInOperation"/>
      <xs:enumeration value="useOfSpecifiedLanesOrCarriagewaysAllowed"/>
      <xs:enumeration value="useSpecifiedLanesOrCarriageways"/>
      <xs:enumeration value="vehicleStorageInOperation"/>
      <xs:enumeration value="weightRestrictionInOperation"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: RoadsideAssistanceTypeEnum

Super-types:	xs:string < **RoadsideAssistanceTypeEnum** (by restriction)
Sub-types:	• _RoadsideAssistanceTypeEnum (by extension)

Name RoadsideAssistanceTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'airAmbulance'|'busPassengerAssistance'|'emergencyServices'|'firstAid'|'foodDelivery'|'helicopterRescue'|'vehicleRepair'|'vehicleRecovery'|'other'|'_e

Documentation Types of road side assistance.

Schema Component Representation

```
<xs:simpleType name="RoadsideAssistanceTypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="airAmbulance"/>
      <xs:enumeration value="busPassengerAssistance"/>
      <xs:enumeration value="emergencyServices"/>
      <xs:enumeration value="firstAid"/>
      <xs:enumeration value="foodDelivery"/>
      <xs:enumeration value="helicopterRescue"/>
      <xs:enumeration value="vehicleRepair"/>
      <xs:enumeration value="vehicleRecovery"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ServiceDisruptionTypeEnum

Super-types:	xs:string < **ServiceDisruptionTypeEnum** (by restriction)
Sub-types:	• _ServiceDisruptionTypeEnum (by extension)

Name ServiceDisruptionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'barClosed'|'dieselShortage'|'fuelShortage'|'lpgShortage'|'methaneShortage'|'noDieselForHeavyVehicles'|'noDieselForLightVehicles'|'noParkingAvaila

Documentation Types of disruption to services relevant to road users.

Schema Component Representation

```
<xs:simpleType name="ServiceDisruptionTypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="barClosed"/>
      <xs:enumeration value="dieselShortage"/>
      <xs:enumeration value="fuelShortage"/>
      <xs:enumeration value="lpgShortage"/>
      <xs:enumeration value="methaneShortage"/>
      <xs:enumeration value="noDieselForHeavyVehicles"/>
      <xs:enumeration value="noDieselForLightVehicles"/>
      <xs:enumeration value="noParkingAvailability"/>
      <xs:enumeration value="noPublicTelephones"/>
      <xs:enumeration value="noToiletFacilities"/>
      <xs:enumeration value="noVehicleRepairFacilities"/>
      <xs:enumeration value="petrolShortage"/>
      <xs:enumeration value="restAreaBusy"/>
      <xs:enumeration value="restAreaClosed"/>
      <xs:enumeration value="restAreaOvercrowdedDriveToAnotherRestArea"/>
      <xs:enumeration value="serviceAreaBusy"/>
      <xs:enumeration value="serviceAreaClosed"/>
      <xs:enumeration value="serviceAreaFuelStationClosed"/>
      <xs:enumeration value="serviceAreaOvercrowdedDriveToAnotherServiceArea"/>
      <xs:enumeration value="serviceAreaRestaurantClosed"/>
      <xs:enumeration value="someCommercialServicesClosed"/>
      <xs:enumeration value="waterShortage"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: SpeedManagementTypeEnum

Super-types:	xs:string < **SpeedManagementTypeEnum** (by restriction)
Sub-types:	• _SpeedManagementTypeEnum (by extension)

Name SpeedManagementTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'activeSpeedControlInOperation'|'doNotSlowdownUnnecessarily'|'observeSpeedLimit'|'policeSpeedChecksInOperation'|'reduceYourSpeed'|'speedRe

Documentation Management actions relating to speed.

Schema Component Representation

```
<xs:simpleType name="SpeedManagementTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="activeSpeedControlInOperation"/>
    <xs:enumeration value="doNotSlowdownUnnecessarily"/>
    <xs:enumeration value="observeSpeedLimit"/>
    <xs:enumeration value="policeSpeedChecksInOperation"/>
    <xs:enumeration value="reduceYourSpeed"/>
    <xs:enumeration value="speedRestrictionInOperation"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TrafficTypeEnum

Super-types:	xs:string < **TrafficTypeEnum** (by restriction)
Sub-types:	• _TrafficTypeEnum (by extension)

Name TrafficTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'accessOnlyTraffic'|'destinedForAirport'|'destinedForAirportArrivals'|'destinedForAirportDepartures'|'destinedForFerryService'|'destinedForRailServic

Documentation Types of traffic, mostly classified by its destination type.

Schema Component Representation

```
<xs:simpleType name="TrafficTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="accessOnlyTraffic"/>
    <xs:enumeration value="destinedForAirport"/>
    <xs:enumeration value="destinedForAirportArrivals"/>
    <xs:enumeration value="destinedForAirportDepartures"/>
    <xs:enumeration value="destinedForFerryService"/>
    <xs:enumeration value="destinedForRailService"/>
    <xs:enumeration value="holidayTraffic"/>
    <xs:enumeration value="localTraffic"/>
    <xs:enumeration value="longDistanceTraffic"/>
    <xs:enumeration value="regionalTraffic"/>
    <xs:enumeration value="residentsOnlyTraffic"/>
    <xs:enumeration value="throughTraffic"/>
    <xs:enumeration value="visitorTraffic"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TransitServiceInformationEnum

Super-types:	xs:string < **TransitServiceInformationEnum** (by restriction)
Sub-types:	• _TransitServiceInformationEnum (by extension)

Name TransitServiceInformationEnum

Content

- Base XSD Type: string
- *value* comes from list: {'cancellations'|'delayDueToBadWeather'|'delayDueToRepairs'|'delayedUntilFurtherNotice'|'delaysDueToFlotsam'|'departureOnSchedule'|'ferryReplac

Documentation Types of public transport information.

Schema Component Representation

```
<xs:simpleType name="TransitServiceInformationEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="cancellations"/>
    <xs:enumeration value="delayDueToBadWeather"/>
    <xs:enumeration value="delayDueToRepairs"/>
    <xs:enumeration value="delayedUntilFurtherNotice"/>
    <xs:enumeration value="delaysDueToFlotsam"/>
    <xs:enumeration value="departureOnSchedule"/>
    <xs:enumeration value="ferryReplacedByIceRoad"/>
    <xs:enumeration value="freeShuttleServiceOperating"/>
    <xs:enumeration value="informationServiceNotAvailable"/>
    <xs:enumeration value="irregularServiceDelays"/>
```

```
    <xs:enumeration value="loadCapacityChanged"/>
    <xs:enumeration value="restrictionsForLongerVehicles"/>
    <xs:enumeration value="serviceDelays"/>
    <xs:enumeration value="serviceDelaysOfUncertainDuration"/>
    <xs:enumeration value="serviceFullyBooked"/>
    <xs:enumeration value="serviceNotOperating"/>
    <xs:enumeration value="serviceNotOperatingSubstituteServiceAvailable"/>
    <xs:enumeration value="serviceSuspended"/>
    <xs:enumeration value="serviceWithdrawn"/>
    <xs:enumeration value="shuttleServiceOperating"/>
    <xs:enumeration value="temporaryChangesToTimetables"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: VehicleObstructionTypeEnum

Super-types:	xs:string < **VehicleObstructionTypeEnum** (by restriction)
Sub-types:	• _VehicleObstructionTypeEnum (by extension)

Name VehicleObstructionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'abandonedVehicle'|'abnormalLoad'|'brokenDownVehicle'|'convoy'|'damagedVehicle'|'dangerousSlowMovingVehicle'|'emergencyVehicle'|'highSpeedI

Documentation Types of obstructions involving vehicles.

Schema Component Representation

```
<xs:simpleType name="VehicleObstructionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="abandonedVehicle"/>
    <xs:enumeration value="abnormalLoad"/>
    <xs:enumeration value="brokenDownVehicle"/>
    <xs:enumeration value="convoy"/>
    <xs:enumeration value="damagedVehicle"/>
    <xs:enumeration value="dangerousSlowMovingVehicle"/>
    <xs:enumeration value="emergencyVehicle"/>
    <xs:enumeration value="highSpeedEmergencyVehicle"/>
    <xs:enumeration value="longLoad"/>
    <xs:enumeration value="highSpeedChase"/>
    <xs:enumeration value="medicalEmergency"/>
    <xs:enumeration value="militaryConvoy"/>
    <xs:enumeration value="overheightVehicle"/>
    <xs:enumeration value="prohibitedVehicleOnTheRoad"/>
    <xs:enumeration value="recklessDriver"/>
    <xs:enumeration value="slowVehicle"/>
    <xs:enumeration value="specialPermitTransport"/>
    <xs:enumeration value="trackedVehicle"/>
    <xs:enumeration value="unlitVehicleOnTheRoad"/>
    <xs:enumeration value="vehicleOnFire"/>
    <xs:enumeration value="vehicleCarryingHazardousMaterials"/>
    <xs:enumeration value="vehicleInDifficulty"/>
    <xs:enumeration value="vehicleOnWrongCarriageway"/>
    <xs:enumeration value="vehicleStuck"/>
    <xs:enumeration value="vehicleWithOverheightLoad"/>
    <xs:enumeration value="vehicleWithOverwideLoad"/>
    <xs:enumeration value="winterMaintetanceVehicleInTransfer"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

DATEXII_3_TrafficManagementPlan

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  - Complex Type: **TmplanTable**
  - Complex Type: **TmplanTablePublication**
  - Complex Type: **_ActionDefinitionVersionedReference**
  - Complex Type: **_MeasureDefinitionVersionedReference**
  - Complex Type: **_ResponseVersionedReference**
  - Complex Type: **_SituationRecordVersionedReference**
  - Complex Type: **_StrategyDefinitionVersionedReference**
  - Complex Type: **_TmplanOperationStatusEnum**
  - Complex Type: **_TmplanScenarioVersionedReference**
  - Complex Type: **_TmplanTableVersionedReference**
  - Simple Type: **Duration**
  - Simple Type: **TmplanOperationStatusEnum**

top

Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/trafficManagementPlan**
Version	02-00-00
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/vms* (at DATEXII_3_Vms.xsd)
	  ◦ *http://datex2.eu/schema/3/situation* (at DATEXII_3_Situation.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
vms	http://datex2.eu/schema/3/vms
sit	http://datex2.eu/schema/3/situation
loc	http://datex2.eu/schema/3/locationReferencing
com	http://datex2.eu/schema/3/common
tmp	**http://datex2.eu/schema/3/trafficManagementPlan**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified" version="02-00-00"
targetNamespace="http://datex2.eu/schema/3/trafficManagementPlan">
   <xs:import namespace="http://datex2.eu/schema/3/vms" schemaLocation="DATEXII_3_Vms.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/situation" schemaLocation="DATEXII_3_Situation.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 Definitions

Complex Type: Action

Super-types:	None
Sub-types:	• ActionByReference (by extension) • ActionDefinition (by extension)

Name	Action
Abstract	yes
Documentation	An action needed to implement a specific measure.

XML Instance Representation

```
<...>
  <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
  <tmp:_actionExtension> com:_ExtensionType </tmp:_actionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Action" abstract="true">
  <xs:sequence>
    <xs:element name="versionTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_actionExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: ActionByReference

Super-types:	Action < **ActionByReference** (by extension)
Sub-types:	None

Name	ActionByReference
Abstract	no
Documentation	A reference to a Traffic Management Plan action.

XML Instance Representation

```
<...>
  <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
  <tmp:_actionExtension> com:_ExtensionType </tmp:_actionExtension> [0..1]
  <tmp:actionReference> tmp:_ActionDefinitionVersionedReference </tmp:actionReference> [1] ?
  <tmp:_actionByReferenceExtension> com:_ExtensionType </tmp:_actionByReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ActionByReference">
  <xs:complexContent>
    <xs:extension base="tmp:Action">
      <xs:sequence>
        <xs:element name="actionReference" type="tmp:_ActionDefinitionVersionedReference" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="_actionByReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: ActionDefinition

Super-types:	Action < **ActionDefinition** (by extension)
Sub-types:	None

Name	ActionDefinition
Abstract	no
Documentation	Element of a Traffic Management Plan table which refers to the definition of an action.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
  <tmp:_actionExtension> com:_ExtensionType </tmp:_actionExtension> [0..1]
  <tmp:externalIdentification> com:String </tmp:externalIdentification> [0..1] ?
  <tmp:description> com:MultilingualString </tmp:description> [1] ?
  <tmp:actionImplementer> com:InternationalIdentifier </tmp:actionImplementer> [0..1]
  <tmp:operatorActionTemplate> tmp:OperatorActionTemplate </tmp:operatorActionTemplate> [0..1]
  <tmp:_actionDefinitionExtension> com:_ExtensionType </tmp:_actionDefinitionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ActionDefinition">
  <xs:complexContent>
    <xs:extension base="tmp:Action">
      <xs:sequence>
        <xs:element name="externalIdentification" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="description" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
        <xs:element name="actionImplementer" type="com:InternationalIdentifier" minOccurs="0"/>
        <xs:element name="operatorActionTemplate" type="tmp:OperatorActionTemplate" minOccurs="0"/>
        <xs:element name="_actionDefinitionExtension" 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:extension>
```

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

top

Complex Type: Measure

Super-types:	None
Sub-types:	• MeasureByReference (by extension) • MeasureDefinition (by extension)

Name	Measure
Abstract	yes
Documentation	A measure, either implemented as a reference or by definition.

XML Instance Representation

```
<...>
  <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
  <tmp:_measureExtension> com:_ExtensionType </tmp:_measureExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Measure" abstract="true">
  <xs:sequence>
    <xs:element name="versionTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_measureExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: MeasureByReference

Super-types:	Measure < **MeasureByReference** (by extension)
Sub-types:	None

Name	MeasureByReference
Abstract	no
Documentation	A reference to a Traffic Management Plan measure.

XML Instance Representation

```
<...>
  <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
  <tmp:_measureExtension> com:_ExtensionType </tmp:_measureExtension> [0..1]
  <tmp:measureReference> tmp:_MeasureDefinitionVersionedReference </tmp:measureReference> [1] ?
  <tmp:_measureByReferenceExtension> com:_ExtensionType </tmp:_measureByReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="MeasureByReference">
  <xs:complexContent>
    <xs:extension base="tmp:Measure">
      <xs:sequence>
        <xs:element name="measureReference" type="tmp:_MeasureDefinitionVersionedReference" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="_measureByReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: MeasureDefinition

Super-types:	Measure < **MeasureDefinition** (by extension)
Sub-types:	None

Name	MeasureDefinition
Abstract	no
Documentation	Element of a Traffic Management Plan table which refers to the definition of a measure.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
  <tmp:_measureExtension> com:_ExtensionType </tmp:_measureExtension> [0..1]
  <tmp:externalIdentification> com:String </tmp:externalIdentification> [0..1] ?
  <tmp:description> com:MultilingualString </tmp:description> [1] ?
  <tmp:action> tmp:Action </tmp:action> [1..*]
  <tmp:_measureDefinitionExtension> com:_ExtensionType </tmp:_measureDefinitionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="MeasureDefinition">
  <xs:complexContent>
    <xs:extension base="tmp:Measure">
      <xs:sequence>
        <xs:element name="externalIdentification" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="description" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
        <xs:element name="action" type="tmp:Action" maxOccurs="unbounded"/>
        <xs:element name="_measureDefinitionExtension" 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:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: NonPredefinedAction

Super-types:	None
Sub-types:	None

Name	NonPredefinedAction
Abstract	no
Documentation	An action needed to implement a non-predefined Traffic Management Plan scenario and/or strategy.

XML Instance Representation

```
<...>
  <tmp:nonPredefinedActionDescription> com:MultilingualString </tmp:nonPredefinedActionDescription> [1] ?
  <tmp:nonPredefinedActionId> com:String </tmp:nonPredefinedActionId> [0..1] ?
  <tmp:actionImplementingSituationRecord> tmp:_SituationRecordVersionedReference
  </tmp:actionImplementingSituationRecord> [0..1] ?
  <tmp:internationalIdentifier> com:InternationalIdentifier </tmp:internationalIdentifier> [1]
  <tmp:operatorActionTemplate> tmp:OperatorActionTemplate </tmp:operatorActionTemplate> [0..1]
  <tmp:_nonPredefinedActionExtension> com:_ExtensionType </tmp:_nonPredefinedActionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NonPredefinedAction">
  <xs:sequence>
    <xs:element name="nonPredefinedActionDescription" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
    <xs:element name="nonPredefinedActionId" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="actionImplementingSituationRecord" type="tmp:_SituationRecordVersionedReference" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="internationalIdentifier" type="com:InternationalIdentifier"/>
    <xs:element name="operatorActionTemplate" type="tmp:OperatorActionTemplate" minOccurs="0"/>
    <xs:element name="_nonPredefinedActionExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: NonPredefinedTmplanOperation

Super-types:	TmplanOperation < **NonPredefinedTmplanOperation** (by extension)
Sub-types:	None

Name	NonPredefinedTmplanOperation
Abstract	no
Documentation	Operational status of a non-predefined Traffic Management Plan.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <tmp:creationTime> com:DateTime </tmp:creationTime> [1] ?
  <tmp:expiryTime> com:DateTime </tmp:expiryTime> [0..1] ?
  <tmp:status> tmp:_TmplanOperationStatusEnum </tmp:status> [1] ?
  <tmp:statusReason> com:MultilingualString </tmp:statusReason> [0..1] ?
  <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
  <tmp:involvedRoadOperatorConsensusRate> com:Percentage </tmp:involvedRoadOperatorConsensusRate> [0..1] ?
  <tmp:headerInformation> com:HeaderInformation </tmp:headerInformation> [1]
  <tmp:_tmplanOperationExtension> com:_ExtensionType </tmp:_tmplanOperationExtension> [0..1]
  <tmp:nonPredefinedScenarioDescription> com:MultilingualString </tmp:nonPredefinedScenarioDescription> [1] ?
  <tmp:nonPredefinedScenarioId> com:String </tmp:nonPredefinedScenarioId> [0..1] ?
  <tmp:nonPredefinedStrategyDescription> com:MultilingualString </tmp:nonPredefinedStrategyDescription> [1] ?
  <tmp:nonPredefinedStrategyId> com:String </tmp:nonPredefinedStrategyId> [0..1] ?
  <tmp:nonPredefinedAction> tmp:NonPredefinedAction </tmp:nonPredefinedAction> [1..*]
  <tmp:_nonPredefinedTmplanOperationExtension> com:_ExtensionType </tmp:_nonPredefinedTmplanOperationExtension>
  [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NonPredefinedTmplanOperation">
  <xs:complexContent>
    <xs:extension base="tmp:TmplanOperation">
      <xs:sequence>
        <xs:element name="nonPredefinedScenarioDescription" type="com:MultilingualString" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="nonPredefinedScenarioId" type="com:String" minOccurs="0" maxOccurs="1"/>
```

```
        <xs:element name="nonPredefinedStrategyDescription" type="com:MultilingualString" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="nonPredefinedStrategyId" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="nonPredefinedAction" type="tmp:NonPredefinedAction" maxOccurs="unbounded"/>
        <xs:element name="_nonPredefinedTmplanOperationExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OperatorActionExtendedTmplan

Super-types:	None
Sub-types:	None

Name	OperatorActionExtendedTmplan
Abstract	no
Documentation	Extension class for OperatorAction.

XML Instance Representation

```
<...>
  <tmp:tmplanImplementingAction> tmp:TmplanImplementingAction </tmp:tmplanImplementingAction> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OperatorActionExtendedTmplan">
  <xs:sequence>
    <xs:element name="tmplanImplementingAction" type="tmp:TmplanImplementingAction" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: OperatorActionTemplate

Super-types:	None
Sub-types:	None

Name	OperatorActionTemplate
Abstract	no
Documentation	Predefines an action for a traffic operator that will serve as a Traffic Management Plan action.

XML Instance Representation

```
<...>
  <tmp:complianceOption> sit:_ComplianceOptionEnum </tmp:complianceOption> [1] ?
  <tmp:applicableForTrafficDirection> loc:_DirectionEnum </tmp:applicableForTrafficDirection> [0..*] ?
  <tmp:applicableForTrafficType> sit:_TrafficTypeEnum </tmp:applicableForTrafficType> [0..*] ?
  <tmp:placesAtWhichApplicable> sit:_PlacesEnum </tmp:placesAtWhichApplicable> [0..*] ?
  <tmp:automaticallyInitiated> com:Boolean </tmp:automaticallyInitiated> [0..1] ?
  <tmp:temporarySpeedLimit> com:KilometresPerHour </tmp:temporarySpeedLimit> [0..1] ?
  <tmp:expectedDuration> tmp:Duration </tmp:expectedDuration> [0..1] ?
  <tmp:applicableToVehiclesWithCharacteristicsOf> com:VehicleCharacteristics
  </tmp:applicableToVehiclesWithCharacteristicsOf> [0..*]
  <tmp:predefinedOperatorActionType> tmp:PredefinedOperatorActionType </tmp:predefinedOperatorActionType> [1]
  <tmp:targetLocation> loc:LocationReference </tmp:targetLocation> [0..*]
  <tmp:_operatorActionTemplateExtension> com:_ExtensionType </tmp:_operatorActionTemplateExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OperatorActionTemplate">
  <xs:sequence>
    <xs:element name="complianceOption" type="sit:_ComplianceOptionEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="applicableForTrafficDirection" type="loc:_DirectionEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="applicableForTrafficType" type="sit:_TrafficTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="placesAtWhichApplicable" type="sit:_PlacesEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="automaticallyInitiated" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="temporarySpeedLimit" type="com:KilometresPerHour" minOccurs="0" maxOccurs="1"/>
    <xs:element name="expectedDuration" type="tmp:Duration" minOccurs="0" maxOccurs="1"/>
    <xs:element name="applicableToVehiclesWithCharacteristicsOf" type="com:VehicleCharacteristics" minOccurs="0"
    maxOccurs="unbounded"/>
    <xs:element name="predefinedOperatorActionType" type="tmp:PredefinedOperatorActionType"/>
    <xs:element name="targetLocation" type="loc:LocationReference" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_operatorActionTemplateExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: PredefinedAction

Super-types:	None
Sub-types:	None

Name	PredefinedAction
Abstract	no

Documentation	Information about predefined action in Traffic Management Plan activation.

XML Instance Representation

```
<...>
  <tmp:actionImplementingSituationRecord> tmp:_SituationRecordVersionedReference
  </tmp:actionImplementingSituationRecord> [0..1] ?
  <tmp:predefinedActionReference> tmp:_ActionDefinitionVersionedReference </tmp:predefinedActionReference> [1] ?
  <tmp:_predefinedActionExtension> com:_ExtensionType </tmp:_predefinedActionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PredefinedAction">
  <xs:sequence>
    <xs:element name="actionImplementingSituationRecord" type="tmp:_SituationRecordVersionedReference" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="predefinedActionReference" type="tmp:_ActionDefinitionVersionedReference" minOccurs="1"
    maxOccurs="1"/>
    <xs:element name="_predefinedActionExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: PredefinedMeasureSelected

Super-types:	None
Sub-types:	None

Name	PredefinedMeasureSelected
Abstract	no
Documentation	Reference to the specific measure chosen to implement the requested Traffic Management Plan strategy.

XML Instance Representation

```
<...>
  <tmp:predefinedMeasureReference> tmp:_MeasureDefinitionVersionedReference </tmp:predefinedMeasureReference> [1] ?
  <tmp:predefinedAction> tmp:PredefinedAction </tmp:predefinedAction> [0..*]
  <tmp:_predefinedMeasureSelectedExtension> com:_ExtensionType </tmp:_predefinedMeasureSelectedExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PredefinedMeasureSelected">
  <xs:sequence>
    <xs:element name="predefinedMeasureReference" type="tmp:_MeasureDefinitionVersionedReference" minOccurs="1"
    maxOccurs="1"/>
    <xs:element name="predefinedAction" type="tmp:PredefinedAction" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_predefinedMeasureSelectedExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: PredefinedOperatorActionType

Super-types:	None
Sub-types:	None

Name	PredefinedOperatorActionType
Abstract	no
Documentation	The type of predefined operator action. Exactly one of the attributes or aggregations must be populated/used.

XML Instance Representation

```
<...>
  <tmp:generalInstructionToRoadUsersType> sit:_GeneralInstructionToRoadUsersTypeEnum
  </tmp:generalInstructionToRoadUsersType> [0..1] ?
  <tmp:generalNetworkManagementType> sit:_GeneralNetworkManagementTypeEnum </tmp:generalNetworkManagementType>
  [0..1] ?
  <tmp:roadMaintenanceType> sit:_RoadMaintenanceTypeEnum </tmp:roadMaintenanceType> [0..*] ?
  <tmp:roadOrCarriagewayOrLaneManagementType> sit:_RoadOrCarriagewayOrLaneManagementTypeEnum
  </tmp:roadOrCarriagewayOrLaneManagementType> [0..1] ?
  <tmp:roadsideAssistanceType> sit:_RoadsideAssistanceTypeEnum </tmp:roadsideAssistanceType> [0..1] ?
  <tmp:speedManagementType> sit:_SpeedManagementTypeEnum </tmp:speedManagementType> [0..1] ?
  <tmp:winterEquipmentManagementType> com:_WinterEquipmentManagementTypeEnum </tmp:winterEquipmentManagementType>
  [0..1] ?
  <tmp:vmsControllerStatus> vms:VmsControllerStatus </tmp:vmsControllerStatus> [0..*]
  <tmp:_predefinedOperatorActionTypeExtension> com:_ExtensionType </tmp:_predefinedOperatorActionTypeExtension>
  [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PredefinedOperatorActionType">
  <xs:sequence>
    <xs:element name="generalInstructionToRoadUsersType" type="sit:_GeneralInstructionToRoadUsersTypeEnum"
    minOccurs="0" maxOccurs="1"/>
    <xs:element name="generalNetworkManagementType" type="sit:_GeneralNetworkManagementTypeEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="roadMaintenanceType" type="sit:_RoadMaintenanceTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="roadOrCarriagewayOrLaneManagementType" type="sit:_RoadOrCarriagewayOrLaneManagementTypeEnum"
    minOccurs="0" maxOccurs="1"/>
```

```
    <xs:element name="roadsideAssistanceType" type="sit:_RoadsideAssistanceTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="speedManagementType" type="sit:_SpeedManagementTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="winterEquipmentManagementType" type="com:_WinterEquipmentManagementTypeEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="vmsControllerStatus" type="vms:VmsControllerStatus" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_predefinedOperatorActionTypeExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: PredefinedTmplanOperation

Super-types:	TmplanOperation < **PredefinedTmplanOperation** (by extension)
Sub-types:	None

Name	PredefinedTmplanOperation
Abstract	no
Documentation	Operation status of a predefined Traffic Management Plan.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <tmp:creationTime> com:DateTime </tmp:creationTime> [1] ?
   <tmp:expiryTime> com:DateTime </tmp:expiryTime> [0..1] ?
   <tmp:status> tmp:_TmplanOperationStatusEnum </tmp:status> [1] ?
   <tmp:statusReason> com:MultilingualString </tmp:statusReason> [0..1] ?
   <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
   <tmp:involvedRoadOperatorConsensusRate> com:Percentage </tmp:involvedRoadOperatorConsensusRate> [0..1] ?
   <tmp:headerInformation> com:HeaderInformation </tmp:headerInformation> [1]
   <tmp:_tmplanOperationExtension> com:_ExtensionType </tmp:_tmplanOperationExtension> [0..1]
   <tmp:tmplanTableReference> tmp:_TmplanTableVersionedReference </tmp:tmplanTableReference> [1] ?
   <tmp:predefinedScenarioReference> tmp:_TmplanScenarioVersionedReference </tmp:predefinedScenarioReference> [0..1]
   ?
   <tmp:predefinedResponseReference> tmp:_ResponseVersionedReference </tmp:predefinedResponseReference> [0..1] ?
   <tmp:predefinedMeasureSelected> tmp:PredefinedMeasureSelected </tmp:predefinedMeasureSelected> [0..1]
   <tmp:_predefinedTmplanOperationExtension> com:_ExtensionType </tmp:_predefinedTmplanOperationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PredefinedTmplanOperation">
  <xs:complexContent>
    <xs:extension base="tmp:TmplanOperation">
      <xs:sequence>
        <xs:element name="tmplanTableReference" type="tmp:_TmplanTableVersionedReference" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="predefinedScenarioReference" type="tmp:_TmplanScenarioVersionedReference" minOccurs="0"
        maxOccurs="1"/>
        <xs:element name="predefinedResponseReference" type="tmp:_ResponseVersionedReference" minOccurs="0"
        maxOccurs="1"/>
        <xs:element name="predefinedMeasureSelected" type="tmp:PredefinedMeasureSelected" minOccurs="0"/>
        <xs:element name="_predefinedTmplanOperationExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Response

Super-types:	None
Sub-types:	None

Name	Response
Abstract	no
Documentation	A response to a Traffic Management Plan scenario.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <tmp:externalIdentification> com:String </tmp:externalIdentification> [0..1] ?
   <tmp:description> com:MultilingualString </tmp:description> [1] ?
   <tmp:strategy> tmp:Strategy </tmp:strategy> [0..1]
   <tmp:measure> tmp:Measure </tmp:measure> [0..1]
   <tmp:_responseExtension> com:_ExtensionType </tmp:_responseExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Response">
  <xs:sequence>
    <xs:element name="externalIdentification" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="description" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
    <xs:element name="strategy" type="tmp:Strategy" minOccurs="0"/>
    <xs:element name="measure" type="tmp:Measure" minOccurs="0"/>
    <xs:element name="_responseExtension" 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: Strategy

Super-types:	None
Sub-types:	• StrategyByReference (by extension) • StrategyDefinition (by extension)

Name	Strategy
Abstract	yes
Documentation	A strategy, either implemented as a reference or by definition.

XML Instance Representation

```
<...>
  <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
  <tmp:_strategyExtension> com:_ExtensionType </tmp:_strategyExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Strategy" abstract="true">
  <xs:sequence>
    <xs:element name="versionTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_strategyExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: StrategyByReference

Super-types:	Strategy < **StrategyByReference** (by extension)
Sub-types:	None

Name	StrategyByReference
Abstract	no
Documentation	A reference to a Traffic Management Plan strategy.

XML Instance Representation

```
<...>
  <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
  <tmp:_strategyExtension> com:_ExtensionType </tmp:_strategyExtension> [0..1]
  <tmp:strategyReference> tmp:_StrategyDefinitionVersionedReference </tmp:strategyReference> [1] ?
  <tmp:_strategyByReferenceExtension> com:_ExtensionType </tmp:_strategyByReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="StrategyByReference">
  <xs:complexContent>
    <xs:extension base="tmp:Strategy">
      <xs:sequence>
        <xs:element name="strategyReference" type="tmp:_StrategyDefinitionVersionedReference" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="_strategyByReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: StrategyDefinition

Super-types:	Strategy < **StrategyDefinition** (by extension)
Sub-types:	None

Name	StrategyDefinition
Abstract	no
Documentation	Element of a Traffic Management Plan table which refers to the definition of a strategy.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
  <tmp:_strategyExtension> com:_ExtensionType </tmp:_strategyExtension> [0..1]
  <tmp:externalIdentification> com:String </tmp:externalIdentification> [0..1] ?
  <tmp:description> com:MultilingualString </tmp:description> [1] ?
  <tmp:measure> tmp:Measure </tmp:measure> [2..*]
  <tmp:_strategyDefinitionExtension> com:_ExtensionType </tmp:_strategyDefinitionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="StrategyDefinition">
  <xs:complexContent>
    <xs:extension base="tmp:Strategy">
      <xs:sequence>
        <xs:element name="externalIdentification" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="description" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
        <xs:element name="measure" type="tmp:Measure" minOccurs="2" maxOccurs="unbounded"/>
        <xs:element name="_strategyDefinitionExtension" 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:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TmplanImplementingAction

Super-types:	None
Sub-types:	None

Name	TmplanImplementingAction
Abstract	no
Documentation	Represents the information of an OperatorAction which has been implemented or is planned based on a Traffic Management Plan activation request.

XML Instance Representation

```
<...>
  <tmp:nonPredefinedActionIdReference> com:String </tmp:nonPredefinedActionIdReference> [0..1] ?
  <tmp:predefinedActionReference> tmp:_ActionDefinitionVersionedReference </tmp:predefinedActionReference> [0..1] ?
  <tmp:predefinedMeasureReference> tmp:_MeasureDefinitionVersionedReference </tmp:predefinedMeasureReference> [0..1]
  ?
  <tmp:_tmplanImplementingActionExtension> com:_ExtensionType </tmp:_tmplanImplementingActionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TmplanImplementingAction">
  <xs:sequence>
    <xs:element name="nonPredefinedActionIdReference" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="predefinedActionReference" type="tmp:_ActionDefinitionVersionedReference" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="predefinedMeasureReference" type="tmp:_MeasureDefinitionVersionedReference" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="_tmplanImplementingActionExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: TmplanOperation

Super-types:	None
Sub-types:	• NonPredefinedTmplanOperation (by extension) • PredefinedTmplanOperation (by extension)

Name	TmplanOperation
Abstract	yes
Documentation	The operation status in the lifecycle of a specific real-time Traffic Management Plan which is needed to manage after some scenario is running in the road network.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <tmp:creationTime> com:DateTime </tmp:creationTime> [1] ?
  <tmp:expiryTime> com:DateTime </tmp:expiryTime> [0..1] ?
  <tmp:status> tmp:_TmplanOperationStatusEnum </tmp:status> [1] ?
  <tmp:statusReason> com:MultilingualString </tmp:statusReason> [0..1] ?
  <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
  <tmp:involvedRoadOperatorConsensusRate> com:Percentage </tmp:involvedRoadOperatorConsensusRate> [0..1] ?
  <tmp:headerInformation> com:HeaderInformation </tmp:headerInformation> [1]
  <tmp:_tmplanOperationExtension> com:_ExtensionType </tmp:_tmplanOperationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TmplanOperation" abstract="true">
  <xs:sequence>
    <xs:element name="creationTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="expiryTime" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
    <xs:element name="status" type="tmp:_TmplanOperationStatusEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="statusReason" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="versionTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="involvedRoadOperatorConsensusRate" type="com:Percentage" minOccurs="0" maxOccurs="1"/>
    <xs:element name="headerInformation" type="com:HeaderInformation"/>
    <xs:element name="_tmplanOperationExtension" 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: TmplanOperationPublication

Super-types:	None
Sub-types:	None

Name	TmplanOperationPublication
Abstract	no
Documentation	Publication to define a Traffic Management Plan operation.

XML Instance Representation

```
<...>
   <tmp:tmplanOperation> tmp:TmplanOperation </tmp:tmplanOperation> [1..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="TmplanOperationPublication">
   <xs:sequence>
      <xs:element name="tmplanOperation" type="tmp:TmplanOperation" maxOccurs="unbounded"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: TmplanScenario

Super-types:	None
Sub-types:	None

Name	TmplanScenario
Abstract	no
Documentation	Element of a Traffic Management Plan table which refers to the definition of a scenario.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <tmp:externalIdentification> com:String </tmp:externalIdentification> [0..1] ?
   <tmp:situationFilter> com:String </tmp:situationFilter> [0..*] ?
   <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
   <tmp:description> com:MultilingualString </tmp:description> [0..1] ?
   <tmp:response> tmp:Response </tmp:response> [1..*]
   <tmp:_tmplanScenarioExtension> com:_ExtensionType </tmp:_tmplanScenarioExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TmplanScenario">
   <xs:sequence>
      <xs:element name="externalIdentification" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="situationFilter" type="com:String" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="versionTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
      <xs:element name="description" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="response" type="tmp:Response" maxOccurs="unbounded"/>
      <xs:element name="_tmplanScenarioExtension" 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: TmplanTable

Super-types:	None
Sub-types:	None

Name	TmplanTable
Abstract	no
Documentation	A set of consistent Traffic Management Plan information agreed among implementers when designing a Traffic Management Plan.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <tmp:externalIdentification> com:String </tmp:externalIdentification> [0..1] ?
   <tmp:versionTime> com:DateTime </tmp:versionTime> [1] ?
   <tmp:description> com:MultilingualString </tmp:description> [0..1] ?
   <tmp:headerInformation> com:HeaderInformation </tmp:headerInformation> [1]
   <tmp:tmplanScenario> tmp:TmplanScenario </tmp:tmplanScenario> [1..*]
   <tmp:_tmplanTableExtension> com:_ExtensionType </tmp:_tmplanTableExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TmplanTable">
  <xs:sequence>
    <xs:element name="externalIdentification" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="versionTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="description" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="headerInformation" type="com:HeaderInformation"/>
    <xs:element name="tmplanScenario" type="tmp:TmplanScenario" maxOccurs="unbounded"/>
    <xs:element name="_tmplanTableExtension" 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: TmplanTablePublication

Super-types:	None
Sub-types:	None

Name	TmplanTablePublication
Abstract	no
Documentation	Publication to convey information about static definition of Traffic Management Plan related information defined at design phase.

XML Instance Representation

```
<...>
  <tmp:tmplanTable> tmp:TmplanTable </tmp:tmplanTable> [1..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="TmplanTablePublication">
  <xs:sequence>
    <xs:element name="tmplanTable" type="tmp:TmplanTable" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: _ActionDefinitionVersionedReference

Super-types:	com:VersionedReference < **_ActionDefinitionVersionedReference** (by extension)
Sub-types:	None

Name	_ActionDefinitionVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="tmp:ActionDefinition [1]">
  <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
  missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_ActionDefinitionVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="tmp:ActionDefinition"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _MeasureDefinitionVersionedReference

Super-types:	com:VersionedReference < **_MeasureDefinitionVersionedReference** (by extension)
Sub-types:	None

Name	_MeasureDefinitionVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="tmp:MeasureDefinition [1]">
  <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
  missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_MeasureDefinitionVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="tmp:MeasureDefinition"/>
    </xs:extension>
```

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

top

Complex Type: _ResponseVersionedReference

Super-types:	com:VersionedReference < **_ResponseVersionedReference** (by extension)
Sub-types:	None

Name	_ResponseVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="tmp:Response [1]">
   <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
   missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_ResponseVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="tmp:Response"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _SituationRecordVersionedReference

Super-types:	com:VersionedReference < **_SituationRecordVersionedReference** (by extension)
Sub-types:	None

Name	_SituationRecordVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="sit:SituationRecord [1]">
   <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
   missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_SituationRecordVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="sit:SituationRecord"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _StrategyDefinitionVersionedReference

Super-types:	com:VersionedReference < **_StrategyDefinitionVersionedReference** (by extension)
Sub-types:	None

Name	_StrategyDefinitionVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="tmp:StrategyDefinition [1]">
   <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
   missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_StrategyDefinitionVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="tmp:StrategyDefinition"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _TmplanOperationStatusEnum

Super-types:	xs:string < TmplanOperationStatusEnum (by restriction) < **_TmplanOperationStatusEnum** (by extension)
Sub-types:	None

Name	_TmplanOperationStatusEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_TmplanOperationStatusEnum">
  <xs:simpleContent>
    <xs:extension base="tmp:TmplanOperationStatusEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TmplanScenarioVersionedReference

Super-types:	com:VersionedReference < **_TmplanScenarioVersionedReference** (by extension)
Sub-types:	None

Name	_TmplanScenarioVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="tmp:TmplanScenario [1]">
  <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
  missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_TmplanScenarioVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="tmp:TmplanScenario"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _TmplanTableVersionedReference

Super-types:	com:VersionedReference < **_TmplanTableVersionedReference** (by extension)
Sub-types:	None

Name	_TmplanTableVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="tmp:TmplanTable [1]">
  <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
  missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_TmplanTableVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="tmp:TmplanTable"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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	A duration, specified in terms of a string following ISO 8601: Starting with "P", followed by the amount of years (with letter Y), months (M), days (D), extra letter "T", hours (H), minutes (M) and seconds (S).

Example: P3Y6M4DT12H30M17S.

Schema Component Representation

```
<xs:simpleType name="Duration">
  <xs:restriction base="com:String"/>
</xs:simpleType>
```

top

Simple Type: TmplanOperationStatusEnum

Super-types:	xs:string < **TmplanOperationStatusEnum** (by restriction)
Sub-types:	• _TmplanOperationStatusEnum (by extension)

Name TmplanOperationStatusEnum

Content

- Base XSD Type: string
- *value* comes from list:
  {'agreementRequested'|'externalAgreementRequested'|'agreementRejected'|'agreementTimeout'|'agreementApproved'|'implementationRequested'|'ir

Documentation The status of operation for a Traffic Management Plan.

Schema Component Representation

```
<xs:simpleType name="TmplanOperationStatusEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="agreementRequested"/>
    <xs:enumeration value="externalAgreementRequested"/>
    <xs:enumeration value="agreementRejected"/>
    <xs:enumeration value="agreementTimeout"/>
    <xs:enumeration value="agreementApproved"/>
    <xs:enumeration value="implementationRequested"/>
    <xs:enumeration value="implementationTimeout"/>
    <xs:enumeration value="implementationAborted"/>
    <xs:enumeration value="implemented"/>
    <xs:enumeration value="activationRequested"/>
    <xs:enumeration value="activationCancelled"/>
    <xs:enumeration value="activationTerminated"/>
    <xs:enumeration value="activated"/>
    <xs:enumeration value="terminationRequested"/>
    <xs:enumeration value="cancellationRequested"/>
    <xs:enumeration value="terminated"/>
    <xs:enumeration value="cancelled"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

DATEXII_3_TrafficRegulation

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- Global Definitions
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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: 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: _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: 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

DATEXII_3_Vms

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  - Complex Type: **VmsFault**
  - Complex Type: **VmsMessage**
  - Complex Type: **VmsStatus**
  - Complex Type: **_ColourEnum**
  - Complex Type: **_CompositePictogramEnum**
  - Complex Type: **_DisplayedNumericalInformationTypeEnum**
  - Complex Type: **_GddServiceCategoryEnum**
  - Complex Type: **_ImageFormatEnum**
  - Complex Type: **_InformationTypeEnum**
  - Complex Type: **_MessageInformationTypeEnum**
  - Complex Type: **_MultiPageDisplayPageNumberDisplayAreaSettings**
  - Complex Type: **_PictogramEnum**
  - Complex Type: **_PositionXAbsoluteEnum**
  - Complex Type: **_PositionXRelativeEnum**
  - Complex Type: **_PositionYAbsoluteEnum**
  - Complex Type: **_PositionYRelativeEnum**
  - Complex Type: **_SettingReasonEnum**
  - Complex Type: **_SituationRecordVersionedReference**
  - Complex Type: **_SituationVersionedReference**
  - Complex Type: **_SupplementalPictogramEnum**
  - Complex Type: **_TextDisplayLineIndexTextLine**
  - Complex Type: **_UnitOfMeasureEnum**
  - Complex Type: **_VmsConfigurationDisplayAreaIndexDisplayArea**
  - Complex Type: **_VmsControllerFaultEnum**
  - Complex Type: **_VmsControllerStatusVmsIndexVmsStatus**
  - Complex Type: **_VmsControllerTableVersionedReference**
  - Complex Type: **_VmsControllerVersionedReference**
  - Complex Type: **_VmsFaultEnum**
  - Complex Type: **_VmsMessageDisplayAreaIndexDisplayAreaSettings**
  - Complex Type: **_VmsStatusMessageIndexVmsMessage**
  - Complex Type: **_WorkingStatusEnum**
  - Simple Type: **ColourEnum**
  - Simple Type: **CompositePictogramEnum**
  - Simple Type: **DisplayedNumericalInformationTypeEnum**
  - Simple Type: **GddPictogramCategoryCode**
  - Simple Type: **GddServiceCategoryEnum**
  - Simple Type: **ImageFormatEnum**
  - Simple Type: **InformationTypeEnum**
  - Simple Type: **MessageInformationTypeEnum**
  - Simple Type: **PictogramEnum**
  - Simple Type: **PositionXAbsoluteEnum**
  - Simple Type: **PositionXRelativeEnum**
  - Simple Type: **PositionYAbsoluteEnum**
  - Simple Type: **PositionYRelativeEnum**
  - Simple Type: **SettingReasonEnum**
  - Simple Type: **SupplementalPictogramEnum**
  - Simple Type: **UnitOfMeasureEnum**
  - Simple Type: **VmsControllerFaultEnum**
  - Simple Type: **VmsFaultEnum**
  - Simple Type: **WorkingStatusEnum**

top

Schema Document Properties

Target Namespace	http://datex2.eu/schema/3/vms
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
vms	**http://datex2.eu/schema/3/vms**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified" version="3.3"
targetNamespace="http://datex2.eu/schema/3/vms">
  <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: CompositePictogram

Super-types:	Pictogram < **CompositePictogram** (by extension)
Sub-types:	None

Name	CompositePictogram
Abstract	no
Documentation	A composite pictogram representing a diagrammatic schema in association with an embedded regular sign.

XML Instance Representation

```
<...>
  <vms:customPictogramCode> com:String </vms:customPictogramCode> [0..1] ?
  <vms:additionalDescription> com:MultilingualString </vms:additionalDescription> [0..1] ?
  <vms:pictogramFlashing> com:Boolean </vms:pictogramFlashing> [0..1] ?
  <vms:pictogramInInverseColour> com:Boolean </vms:pictogramInInverseColour> [0..1] ?
  <vms:viennaConventionCompliant> com:Boolean </vms:viennaConventionCompliant> [0..1] ?
  <vms:pictogramInformationType> vms:_InformationTypeEnum </vms:pictogramInformationType> [0..1] ?
  <vms:gddStructure> vms:GddStructure </vms:gddStructure> [0..1]
  <vms:_pictogramExtension> com:_ExtensionType </vms:_pictogramExtension> [0..1]
  <vms:pictogramDescription> vms:_CompositePictogramEnum </vms:pictogramDescription> [1] ?
  <vms:regularPictogram> vms:RegularPictogram </vms:regularPictogram> [1]
  <vms:_compositePictogramExtension> com:_ExtensionType </vms:_compositePictogramExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="CompositePictogram">
  <xs:complexContent>
    <xs:extension base="vms:Pictogram">
      <xs:sequence>
        <xs:element name="pictogramDescription" type="vms:_CompositePictogramEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="regularPictogram" type="vms:RegularPictogram"/>
        <xs:element name="_compositePictogramExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: DisplayArea

Super-types:	None
Sub-types:	• PictogramDisplayArea (by extension) • SupplementaryPanelArea (by extension) • TextDisplayArea (by extension)

Name	DisplayArea
Abstract	no
Documentation	Configuration (static or dynamic) of a display area.

XML Instance Representation

```
<...>
  <vms:sequencingCapable> com:Boolean </vms:sequencingCapable> [0..1] ?
  <vms:maxNumberOfSequentialPages> com:NonNegativeInteger </vms:maxNumberOfSequentialPages> [0..1] ?
  <vms:positionXAbsolute> vms:_PositionXAbsoluteEnum </vms:positionXAbsolute> [0..1] ?
  <vms:positionXRelativeToPrevious> vms:_PositionXRelativeEnum </vms:positionXRelativeToPrevious> [0..1] ?
  <vms:positionYAbsolute> vms:_PositionYAbsoluteEnum </vms:positionYAbsolute> [0..1] ?
  <vms:positionYRelativeToPrevious> vms:_PositionYRelativeEnum </vms:positionYRelativeToPrevious> [0..1] ?
  <vms:displayGeometry> vms:DisplayGeometry </vms:displayGeometry> [0..1]
  <vms:overriddenLaneAssociation> loc:Lane </vms:overriddenLaneAssociation> [0..*] ?
  <vms:_displayAreaExtension> com:_ExtensionType </vms:_displayAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DisplayArea">
```

```
  <xs:sequence>
    <xs:element name="sequencingCapable" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="maxNumberOfSequentialPages" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="positionXAbsolute" type="vms:_PositionXAbsoluteEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="positionXRelativeToPrevious" type="vms:_PositionXRelativeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="positionYAbsolute" type="vms:_PositionYAbsoluteEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="positionYRelativeToPrevious" type="vms:_PositionYRelativeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="displayGeometry" type="vms:DisplayGeometry" minOccurs="0"/>
    <xs:element name="overriddenLaneAssociation" type="loc:Lane" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_displayAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: DisplayAreaSettings

Super-types: None

Sub-types:

- MultiPageDisplay (by extension)
- PictogramDisplay (by extension)
- SupplementaryInformationDisplay (by extension)
  - SupplementaryPictogram (by extension)
  - SupplementaryText (by extension)
- TextDisplay (by extension)

Name	DisplayAreaSettings
Abstract	yes
Documentation	A display of pictograms or text on one area on a VMS.

XML Instance Representation

```
<...>
  <vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
  <vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
  <vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
  <vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DisplayAreaSettings" abstract="true">
  <xs:sequence>
    <xs:element name="isBlank" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="legallyBinding" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="legalBasis" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_displayAreaSettingsExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: DisplayGeometry

Super-types: None

Sub-types: None

Name	DisplayGeometry
Abstract	no
Documentation	Characteristics of the geometry of a display

XML Instance Representation

```
<...>
  <vms:pixelsAcross> com:NonNegativeInteger </vms:pixelsAcross> [0..1] ?
  <vms:pixelsDown> com:NonNegativeInteger </vms:pixelsDown> [0..1] ?
  <vms:displayHeight> com:MetresAsFloat </vms:displayHeight> [0..1] ?
  <vms:displayWidth> com:MetresAsFloat </vms:displayWidth> [0..1] ?
  <vms:positionX> com:MetresAsFloat </vms:positionX> [0..1] ?
  <vms:positionY> com:MetresAsFloat </vms:positionY> [0..1] ?
  <vms:_displayGeometryExtension> com:_ExtensionType </vms:_displayGeometryExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DisplayGeometry">
  <xs:sequence>
    <xs:element name="pixelsAcross" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="pixelsDown" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="displayHeight" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="displayWidth" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="positionX" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="positionY" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_displayGeometryExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: DisplayedNumericalInformation

Super-types: None

Sub-types:	None

Name	DisplayedNumericalInformation
Abstract	no
Documentation	Numerical information displayed on a sign

XML Instance Representation

```
<...>
   <vms:numericalInformationType> vms:_DisplayedNumericalInformationTypeEnum </vms:numericalInformationType> [1] ?
   <vms:numericValue> com:Decimal </vms:numericValue> [1] ?
   <vms:unitOfMeasure> vms:_UnitOfMeasureEnum </vms:unitOfMeasure> [1] ?
   <vms:_displayedNumericalInformationExtension> com:_ExtensionType </vms:_displayedNumericalInformationExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DisplayedNumericalInformation">
   <xs:sequence>
      <xs:element name="numericalInformationType" type="vms:_DisplayedNumericalInformationTypeEnum" minOccurs="1"
      maxOccurs="1"/>
      <xs:element name="numericValue" type="com:Decimal" minOccurs="1" maxOccurs="1"/>
      <xs:element name="unitOfMeasure" type="vms:_UnitOfMeasureEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_displayedNumericalInformationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: GddPictogramAttributes

Super-types:	None
Sub-types:	None

Name	GddPictogramAttributes
Abstract	no
Documentation	ISO 14823 Graphic Data Dictionary attributes with textual or numeric data to supplement a pictogram identification.

XML Instance Representation

```
<...>
   <vms:attributes> com:Base64Binary </vms:attributes> [1] ?
   <vms:_gddPictogramAttributesExtension> com:_ExtensionType </vms:_gddPictogramAttributesExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GddPictogramAttributes">
   <xs:sequence>
      <xs:element name="attributes" type="com:Base64Binary" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_gddPictogramAttributesExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: GddPictogramIdentification

Super-types:	None
Sub-types:	None

Name	GddPictogramIdentification
Abstract	no
Documentation	Group of codes that uniquely identifies a kind of pictogram, according to the ISO 14823 Graphic Data Dictionary

XML Instance Representation

```
<...>
   <vms:country> com:CountryCode </vms:country> [1] ?
   <vms:serviceCategory> vms:_GddServiceCategoryEnum </vms:serviceCategory> [1] ?
   <vms:pictogramCategoryCode> vms:GddPictogramCategoryCode </vms:pictogramCategoryCode> [1] ?
   <vms:_gddPictogramIdentificationExtension> com:_ExtensionType </vms:_gddPictogramIdentificationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GddPictogramIdentification">
   <xs:sequence>
      <xs:element name="country" type="com:CountryCode" minOccurs="1" maxOccurs="1"/>
      <xs:element name="serviceCategory" type="vms:_GddServiceCategoryEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="pictogramCategoryCode" type="vms:GddPictogramCategoryCode" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_gddPictogramIdentificationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: GddStructure

Super-types:	None
Sub-types:	None

Name	GddStructure
Abstract	no
Documentation	Graphic Data Dictionary structure, to identify a pictogram by code and optional supplementary attributes

XML Instance Representation

```
<...>
   <vms:gddPictogramIdentification> vms:GddPictogramIdentification </vms:gddPictogramIdentification> [1]
   <vms:gddPictogramAttributes> vms:GddPictogramAttributes </vms:gddPictogramAttributes> [0..1]
   <vms:_gddStructureExtension> com:_ExtensionType </vms:_gddStructureExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GddStructure">
   <xs:sequence>
      <xs:element name="gddPictogramIdentification" type="vms:GddPictogramIdentification"/>
      <xs:element name="gddPictogramAttributes" type="vms:GddPictogramAttributes" minOccurs="0"/>
      <xs:element name="_gddStructureExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: Image

Super-types:	None
Sub-types:	None

Name	Image
Abstract	no
Documentation	An image, with encoded data and identification of format

XML Instance Representation

```
<...>
   <vms:imageData> com:Base64Binary </vms:imageData> [1] ?
   <vms:imageFormat> vms:_ImageFormatEnum </vms:imageFormat> [1] ?
   <vms:_imageExtension> com:_ExtensionType </vms:_imageExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Image">
   <xs:sequence>
      <xs:element name="imageData" type="com:Base64Binary" minOccurs="1" maxOccurs="1"/>
      <xs:element name="imageFormat" type="vms:_ImageFormatEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_imageExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: ManagedLogicalLocation

Super-types:	None
Sub-types:	None

Name	ManagedLogicalLocation
Abstract	no
Documentation	The logical location (e.g. a car park, a section of road, a junction etc.) which a VMS contributes to the management of.

XML Instance Representation

```
<...>
   <vms:managedLogicalLocation> com:MultilingualString </vms:managedLogicalLocation> [0..1] ?
   <vms:distanceFromLogicalLocation> com:MetresAsNonNegativeInteger </vms:distanceFromLogicalLocation> [0..1] ?
   <vms:managedLocation> loc:Location </vms:managedLocation> [0..1] ?
   <vms:_managedLogicalLocationExtension> com:_ExtensionType </vms:_managedLogicalLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ManagedLogicalLocation">
   <xs:sequence>
      <xs:element name="managedLogicalLocation" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="distanceFromLogicalLocation" type="com:MetresAsNonNegativeInteger" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="managedLocation" type="loc:Location" minOccurs="0"/>
      <xs:element name="_managedLogicalLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: MultiPageDisplay

Super-types:	DisplayAreaSettings < **MultiPageDisplay** (by extension)
Sub-types:	None

Name	MultiPageDisplay
Abstract	no
Documentation	A display of multiple pages, sequentially displayed in order of their "pageNumber".

XML Instance Representation

```
<...>
  <vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
  <vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
  <vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
  <vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
  <vms:sequenceGroupNumber> com:NonNegativeInteger </vms:sequenceGroupNumber> [0..1] ?
  <vms:displayAreaSettings> vms:_MultiPageDisplayPageNumberDisplayAreaSettings </vms:displayAreaSettings> [0..*]
  <vms:_multiPageDisplayExtension> com:_ExtensionType </vms:_multiPageDisplayExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="MultiPageDisplay">
  <xs:complexContent>
    <xs:extension base="vms:DisplayAreaSettings">
      <xs:sequence>
        <xs:element name="sequenceGroupNumber" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
        <xs:element name="displayAreaSettings" type="vms:_MultiPageDisplayPageNumberDisplayAreaSettings"
        minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="_multiPageDisplayExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Pictogram

Super-types:	None
Sub-types:	• CompositePictogram (by extension) • RegularPictogram (by extension)

Name	Pictogram
Abstract	yes
Documentation	A main pictogram displayable on the VMS panel. Note a main pictogram may have an associated supplementary panel which may itself contain a further pictogram and line of text.

XML Instance Representation

```
<...>
  <vms:customPictogramCode> com:String </vms:customPictogramCode> [0..1] ?
  <vms:additionalDescription> com:MultilingualString </vms:additionalDescription> [0..1] ?
  <vms:pictogramFlashing> com:Boolean </vms:pictogramFlashing> [0..1] ?
  <vms:pictogramInInverseColour> com:Boolean </vms:pictogramInInverseColour> [0..1] ?
  <vms:viennaConventionCompliant> com:Boolean </vms:viennaConventionCompliant> [0..1] ?
  <vms:pictogramInformationType> vms:_InformationTypeEnum </vms:pictogramInformationType> [0..1] ?
  <vms:gddStructure> vms:GddStructure </vms:gddStructure> [0..1]
  <vms:_pictogramExtension> com:_ExtensionType </vms:_pictogramExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Pictogram" abstract="true">
  <xs:sequence>
    <xs:element name="customPictogramCode" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="additionalDescription" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="pictogramFlashing" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="pictogramInInverseColour" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="viennaConventionCompliant" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="pictogramInformationType" type="vms:_InformationTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="gddStructure" type="vms:GddStructure" minOccurs="0"/>
    <xs:element name="_pictogramExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: PictogramDisplay

Super-types:	DisplayAreaSettings < **PictogramDisplay** (by extension)
Sub-types:	None

Name	PictogramDisplay
Abstract	no
Documentation	A display of a pictogram on one area on a VMS, potentially with associated supplemental information or instructions.

XML Instance Representation

```
<...>
  <vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
  <vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
```

```
  <vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
  <vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
  <vms:isPrimaryPictogram> com:Boolean </vms:isPrimaryPictogram> [0..1] ?
  <vms:pictogramDisplayUrl> com:Url </vms:pictogramDisplayUrl> [0..1] ?
  <vms:pictogram> vms:Pictogram </vms:pictogram> [1]
  <vms:supplementaryInformationDisplay> vms:SupplementaryInformationDisplay </vms:supplementaryInformationDisplay>
  [0..1]
  <vms:image> vms:Image </vms:image> [0..1]
  <vms:_pictogramDisplayExtension> com:_ExtensionType </vms:_pictogramDisplayExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PictogramDisplay">
  <xs:complexContent>
    <xs:extension base="vms:DisplayAreaSettings">
      <xs:sequence>
        <xs:element name="isPrimaryPictogram" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pictogramDisplayUrl" type="com:Url" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pictogram" type="vms:Pictogram"/>
        <xs:element name="supplementaryInformationDisplay" type="vms:SupplementaryInformationDisplay"
        minOccurs="0"/>
        <xs:element name="image" type="vms:Image" minOccurs="0"/>
        <xs:element name="_pictogramDisplayExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: PictogramDisplayArea

Super-types:	DisplayArea < **PictogramDisplayArea** (by extension)
Sub-types:	None

Name	PictogramDisplayArea
Abstract	no
Documentation	Characteristics specific to a pictogram display area on the VMS.

XML Instance Representation

```
<...>
  <vms:sequencingCapable> com:Boolean </vms:sequencingCapable> [0..1] ?
  <vms:maxNumberOfSequentialPages> com:NonNegativeInteger </vms:maxNumberOfSequentialPages> [0..1] ?
  <vms:positionXAbsolute> vms:_PositionXAbsoluteEnum </vms:positionXAbsolute> [0..1] ?
  <vms:positionXRelativeToPrevious> vms:_PositionXRelativeEnum </vms:positionXRelativeToPrevious> [0..1] ?
  <vms:positionYAbsolute> vms:_PositionYAbsoluteEnum </vms:positionYAbsolute> [0..1] ?
  <vms:positionYRelativeToPrevious> vms:_PositionYRelativeEnum </vms:positionYRelativeToPrevious> [0..1] ?
  <vms:displayGeometry> vms:DisplayGeometry </vms:displayGeometry> [0..1]
  <vms:overriddenLaneAssociation> loc:Lane </vms:overriddenLaneAssociation> [0..*] ?
  <vms:_displayAreaExtension> com:_ExtensionType </vms:_displayAreaExtension> [0..1]
  <vms:pictogramCodeListIdentifier> com:String </vms:pictogramCodeListIdentifier> [0..1] ?
  <vms:pictogramNumberOfColours> com:NonNegativeInteger </vms:pictogramNumberOfColours> [0..1] ?
  <vms:_pictogramDisplayAreaExtension> com:_ExtensionType </vms:_pictogramDisplayAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PictogramDisplayArea">
  <xs:complexContent>
    <xs:extension base="vms:DisplayArea">
      <xs:sequence>
        <xs:element name="pictogramCodeListIdentifier" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pictogramNumberOfColours" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
        <xs:element name="_pictogramDisplayAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: RegularPictogram

Super-types:	Pictogram < **RegularPictogram** (by extension)
Sub-types:	None

Name	RegularPictogram
Abstract	no
Documentation	A regular pictogram displayable on a VMS panel.

XML Instance Representation

```
<...>
  <vms:customPictogramCode> com:String </vms:customPictogramCode> [0..1] ?
  <vms:additionalDescription> com:MultilingualString </vms:additionalDescription> [0..1] ?
  <vms:pictogramFlashing> com:Boolean </vms:pictogramFlashing> [0..1] ?
  <vms:pictogramInInverseColour> com:Boolean </vms:pictogramInInverseColour> [0..1] ?
  <vms:viennaConventionCompliant> com:Boolean </vms:viennaConventionCompliant> [0..1] ?
  <vms:pictogramInformationType> vms:_InformationTypeEnum </vms:pictogramInformationType> [0..1] ?
  <vms:gddStructure> vms:GddStructure </vms:gddStructure> [0..1]
  <vms:_pictogramExtension> com:_ExtensionType </vms:_pictogramExtension> [0..1]
  <vms:pictogramDescription> vms:_PictogramEnum </vms:pictogramDescription> [0..*] ?
```

```
  <vms:presenceOfRedTriangle> com:Boolean </vms:presenceOfRedTriangle> [0..1] ?
  <vms:displayedNumericalInformation> vms:DisplayedNumericalInformation </vms:displayedNumericalInformation> [0..2]
  <vms:_regularPictogramExtension> com:_ExtensionType </vms:_regularPictogramExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RegularPictogram">
  <xs:complexContent>
    <xs:extension base="vms:Pictogram">
      <xs:sequence>
        <xs:element name="pictogramDescription" type="vms:_PictogramEnum" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="presenceOfRedTriangle" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
        <xs:element name="displayedNumericalInformation" type="vms:DisplayedNumericalInformation" minOccurs="0"
        maxOccurs="2"/>
        <xs:element name="_regularPictogramExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: SupplementaryInformationDisplay

Super-types:	DisplayAreaSettings < **SupplementaryInformationDisplay** (by extension)
Sub-types:	• SupplementaryPictogram (by extension) • SupplementaryText (by extension)

Name	SupplementaryInformationDisplay
Abstract	yes
Documentation	A display of information or a regulatory instruction which is supplemental to the associated pictogram, comprising either an additional line of text or a pictogram or both.

XML Instance Representation

```
<...>
  <vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
  <vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
  <vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
  <vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
  <vms:_supplementaryInformationDisplayExtension> com:_ExtensionType
  </vms:_supplementaryInformationDisplayExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SupplementaryInformationDisplay" abstract="true">
  <xs:complexContent>
    <xs:extension base="vms:DisplayAreaSettings">
      <xs:sequence>
        <xs:element name="_supplementaryInformationDisplayExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: SupplementaryPanelArea

Super-types:	DisplayArea < **SupplementaryPanelArea** (by extension)
Sub-types:	None

Name	SupplementaryPanelArea
Abstract	no
Documentation	Characteristics of a panel which can display details (sometimes regulatory in nature) that are supplementary to one pictogram, comprising an additional line of text or another pictogram.

XML Instance Representation

```
<...>
  <vms:sequencingCapable> com:Boolean </vms:sequencingCapable> [0..1] ?
  <vms:maxNumberOfSequentialPages> com:NonNegativeInteger </vms:maxNumberOfSequentialPages> [0..1] ?
  <vms:positionXAbsolute> vms:_PositionXAbsoluteEnum </vms:positionXAbsolute> [0..1] ?
  <vms:positionXRelativeToPrevious> vms:_PositionXRelativeEnum </vms:positionXRelativeToPrevious> [0..1] ?
  <vms:positionYAbsolute> vms:_PositionYAbsoluteEnum </vms:positionYAbsolute> [0..1] ?
  <vms:positionYRelativeToPrevious> vms:_PositionYRelativeEnum </vms:positionYRelativeToPrevious> [0..1] ?
  <vms:displayGeometry> vms:DisplayGeometry </vms:displayGeometry> [0..1]
  <vms:overriddenLaneAssociation> loc:Lane </vms:overriddenLaneAssociation> [0..*] ?
  <vms:_displayAreaExtension> com:_ExtensionType </vms:_displayAreaExtension> [0..1]
  <vms:supplementaryPictogramCodeListIdentifier> com:String </vms:supplementaryPictogramCodeListIdentifier> [0..1] ?
  <vms:relatedPictogramArea> com:Integer </vms:relatedPictogramArea> [0..1] ?
  <vms:_supplementaryPanelAreaExtension> com:_ExtensionType </vms:_supplementaryPanelAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SupplementaryPanelArea">
  <xs:complexContent>
    <xs:extension base="vms:DisplayArea">
      <xs:sequence>
        <xs:element name="supplementaryPictogramCodeListIdentifier" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="relatedPictogramArea" type="com:Integer" minOccurs="0" maxOccurs="1"/>
```

```
        <xs:element name="_supplementaryPanelAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: SupplementaryPictogram

Super-types:	DisplayAreaSettings < SupplementaryInformationDisplay (by extension) < **SupplementaryPictogram** (by extension)
Sub-types:	None

Name	SupplementaryPictogram
Abstract	no
Documentation	An additional pictogram that is displayed in the panel which is supplemental to the associated pictogram display.

XML Instance Representation

```
<...>
  <vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
  <vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
  <vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
  <vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
  <vms:_supplementaryInformationDisplayExtension> com:_ExtensionType
  </vms:_supplementaryInformationDisplayExtension> [0..1]
  <vms:pictogramDescription> vms:_SupplementalPictogramEnum </vms:pictogramDescription> [0..1] ?
  <vms:pictogramCode> com:String </vms:pictogramCode> [0..1] ?
  <vms:pictogramUrl> com:Url </vms:pictogramUrl> [0..1] ?
  <vms:additionalDescription> com:MultilingualString </vms:additionalDescription> [0..1] ?
  <vms:pictogramFlashing> com:Boolean </vms:pictogramFlashing> [0..1] ?
  <vms:pictogramInformationType> vms:_InformationTypeEnum </vms:pictogramInformationType> [0..1] ?
  <vms:_supplementaryPictogramExtension> com:_ExtensionType </vms:_supplementaryPictogramExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SupplementaryPictogram">
  <xs:complexContent>
    <xs:extension base="vms:SupplementaryInformationDisplay">
      <xs:sequence>
        <xs:element name="pictogramDescription" type="vms:_SupplementalPictogramEnum" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pictogramCode" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pictogramUrl" type="com:Url" minOccurs="0" maxOccurs="1"/>
        <xs:element name="additionalDescription" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pictogramFlashing" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pictogramInformationType" type="vms:_InformationTypeEnum" minOccurs="0" maxOccurs="1"/>
        <xs:element name="_supplementaryPictogramExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: SupplementaryText

Super-types:	DisplayAreaSettings < SupplementaryInformationDisplay (by extension) < **SupplementaryText** (by extension)
Sub-types:	None

Name	SupplementaryText
Abstract	no
Documentation	Text used in a supplementary display associated with a pictogram

XML Instance Representation

```
<...>
  <vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
  <vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
  <vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
  <vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
  <vms:_supplementaryInformationDisplayExtension> com:_ExtensionType
  </vms:_supplementaryInformationDisplayExtension> [0..1]
  <vms:textLine> vms:TextLine </vms:textLine> [1] ?
  <vms:_supplementaryTextExtension> com:_ExtensionType </vms:_supplementaryTextExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SupplementaryText">
  <xs:complexContent>
    <xs:extension base="vms:SupplementaryInformationDisplay">
      <xs:sequence>
        <xs:element name="textLine" type="vms:TextLine"/>
        <xs:element name="_supplementaryTextExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TextDisplay

Super-types:	DisplayAreaSettings < **TextDisplay** (by extension)
Sub-types:	None

Name	TextDisplay
Abstract	no
Documentation	A page of text (comprising one or more ordered lines) that are displayed simultaneously on the VMS.

XML Instance Representation

```
<...>
   <vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
   <vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
   <vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
   <vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
   <vms:textCode> com:String </vms:textCode> [0..1] ?
   <vms:textImageUrl> com:Url </vms:textImageUrl> [0..1] ?
   <vms:textLine> vms:_TextDisplayLineIndexTextLine </vms:textLine> [0..*]
   <vms:_textDisplayExtension> com:_ExtensionType </vms:_textDisplayExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TextDisplay">
   <xs:complexContent>
      <xs:extension base="vms:DisplayAreaSettings">
         <xs:sequence>
            <xs:element name="textCode" type="com:String" minOccurs="0" maxOccurs="1"/>
            <xs:element name="textImageUrl" type="com:Url" minOccurs="0" maxOccurs="1"/>
            <xs:element name="textLine" type="vms:_TextDisplayLineIndexTextLine" minOccurs="0" maxOccurs="unbounded"/>
            <xs:element name="_textDisplayExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TextDisplayArea

Super-types:	DisplayArea < **TextDisplayArea** (by extension)
Sub-types:	None

Name	TextDisplayArea
Abstract	no
Documentation	Characteristics specific to the textual display area on the VMS.

XML Instance Representation

```
<...>
   <vms:sequencingCapable> com:Boolean </vms:sequencingCapable> [0..1] ?
   <vms:maxNumberOfSequentialPages> com:NonNegativeInteger </vms:maxNumberOfSequentialPages> [0..1] ?
   <vms:positionXAbsolute> vms:_PositionXAbsoluteEnum </vms:positionXAbsolute> [0..1] ?
   <vms:positionXRelativeToPrevious> vms:_PositionXRelativeEnum </vms:positionXRelativeToPrevious> [0..1] ?
   <vms:positionYAbsolute> vms:_PositionYAbsoluteEnum </vms:positionYAbsolute> [0..1] ?
   <vms:positionYRelativeToPrevious> vms:_PositionYRelativeEnum </vms:positionYRelativeToPrevious> [0..1] ?
   <vms:displayGeometry> vms:DisplayGeometry </vms:displayGeometry> [0..1]
   <vms:overriddenLaneAssociation> loc:Lane </vms:overriddenLaneAssociation> [0..*] ?
   <vms:_displayAreaExtension> com:_ExtensionType </vms:_displayAreaExtension> [0..1]
   <vms:proportionalFont> com:Boolean </vms:proportionalFont> [0..1] ?
   <vms:maxNumberOfCharacters> com:NonNegativeInteger </vms:maxNumberOfCharacters> [0..1] ?
   <vms:maxNumberOfRows> com:NonNegativeInteger </vms:maxNumberOfRows> [0..1] ?
   <vms:textCodeListIdentifier> com:String </vms:textCodeListIdentifier> [0..1] ?
   <vms:maxFontHeight> com:NonNegativeInteger </vms:maxFontHeight> [0..1] ?
   <vms:minFontHeight> com:NonNegativeInteger </vms:minFontHeight> [0..1] ?
   <vms:maxFontWidth> com:NonNegativeInteger </vms:maxFontWidth> [0..1] ?
   <vms:minFontWidth> com:NonNegativeInteger </vms:minFontWidth> [0..1] ?
   <vms:maxFontSpacing> com:NonNegativeInteger </vms:maxFontSpacing> [0..1] ?
   <vms:minFontSpacing> com:NonNegativeInteger </vms:minFontSpacing> [0..1] ?
   <vms:_textDisplayAreaExtension> com:_ExtensionType </vms:_textDisplayAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TextDisplayArea">
   <xs:complexContent>
      <xs:extension base="vms:DisplayArea">
         <xs:sequence>
            <xs:element name="proportionalFont" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
            <xs:element name="maxNumberOfCharacters" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
            <xs:element name="maxNumberOfRows" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
            <xs:element name="textCodeListIdentifier" type="com:String" minOccurs="0" maxOccurs="1"/>
            <xs:element name="maxFontHeight" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
            <xs:element name="minFontHeight" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
            <xs:element name="maxFontWidth" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
            <xs:element name="minFontWidth" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
            <xs:element name="maxFontSpacing" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
            <xs:element name="minFontSpacing" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
            <xs:element name="_textDisplayAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TextLine

Super-types:	None
Sub-types:	None

Name	TextLine
Abstract	no
Documentation	A single line of text displayed on a text display area or supplementary panel or corresponding to a displayed text. It may correspond to the entire text in the case that text segmentation in lines is not available.

XML Instance Representation

```
<...
 lineLanguage="com:Language [0..1] ?">
   <vms:textLine> com:String </vms:textLine> [1] ?
   <vms:lineColour> vms:_ColourEnum </vms:lineColour> [0..1] ?
   <vms:lineFlashing> com:Boolean </vms:lineFlashing> [0..1] ?
   <vms:lineHtml> com:String </vms:lineHtml> [0..1] ?
   <vms:isExactTextOnSign> com:Boolean </vms:isExactTextOnSign> [0..1] ?
   <vms:textInformationType> vms:_InformationTypeEnum </vms:textInformationType> [0..*] ?
   <vms:_textLineExtension> com:_ExtensionType </vms:_textLineExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TextLine">
   <xs:sequence>
      <xs:element name="textLine" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="lineColour" type="vms:_ColourEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="lineFlashing" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="lineHtml" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="isExactTextOnSign" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="textInformationType" type="vms:_InformationTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="_textLineExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
   <xs:attribute name="lineLanguage" type="com:Language" use="optional"/>
</xs:complexType>
```

top

Complex Type: VmsConfiguration

Super-types:	None
Sub-types:	None

Name	VmsConfiguration
Abstract	no
Documentation	Describes the current configuration and characteristics of a VMS, whether it is statically or dynamically configured.

XML Instance Representation

```
<...>
   <vms:numberOfDisplayAreas> com:NonNegativeInteger </vms:numberOfDisplayAreas> [0..1] ?
   <vms:displayArea> vms:_VmsConfigurationDisplayAreaIndexDisplayArea </vms:displayArea> [0..*]
   <vms:_vmsConfigurationExtension> com:_ExtensionType </vms:_vmsConfigurationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsConfiguration">
   <xs:sequence>
      <xs:element name="numberOfDisplayAreas" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
      <xs:element name="displayArea" type="vms:_VmsConfigurationDisplayAreaIndexDisplayArea" minOccurs="0"
      maxOccurs="unbounded"/>
      <xs:element name="_vmsConfigurationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: VmsControllerFault

Super-types:	com:Fault < **VmsControllerFault** (by extension)
Sub-types:	None

Name	VmsControllerFault
Abstract	no
Documentation	Details of the fault which is being reported for the specified variable message sign control unit.

XML Instance Representation

```
<...>
   <!-- 'com:Fault' super type was not found in this schema. Some elements and attributes may be missing. -->
   <vms:vmsControllerFault> vms:_VmsControllerFaultEnum </vms:vmsControllerFault> [1] ?
   <vms:_vmsControllerFaultExtension> com:_ExtensionType </vms:_vmsControllerFaultExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsControllerFault">
  <xs:complexContent>
    <xs:extension base="com:Fault">
      <xs:sequence>
        <xs:element name="vmsControllerFault" type="vms:_VmsControllerFaultEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_vmsControllerFaultExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: VmsControllerStatus

Super-types:	None
Sub-types:	None

Name	VmsControllerStatus
Abstract	no
Documentation	Status of a VMS controller unit

XML Instance Representation

```
<...>
  <vms:vmsControllerTableReference> vms:_VmsControllerTableVersionedReference </vms:vmsControllerTableReference> [1]
  ?
  <vms:vmsControllerReference> vms:_VmsControllerVersionedReference </vms:vmsControllerReference> [1] ?
  <vms:statusUpdateTime> com:DateTime </vms:statusUpdateTime> [0..1] ?
  <vms:informationManagerOverride> com:InternationalIdentifier </vms:informationManagerOverride> [0..1] ?
  <vms:vmsStatus> vms:_VmsControllerStatusVmsIndexVmsStatus </vms:vmsStatus> [0..*]
  <vms:vmsControllerFault> vms:VmsControllerFault </vms:vmsControllerFault> [0..*]
  <vms:_vmsControllerStatusExtension> com:_ExtensionType </vms:_vmsControllerStatusExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsControllerStatus">
  <xs:sequence>
    <xs:element name="vmsControllerTableReference" type="vms:_VmsControllerTableVersionedReference" minOccurs="1"
    maxOccurs="1"/>
    <xs:element name="vmsControllerReference" type="vms:_VmsControllerVersionedReference" minOccurs="1"
    maxOccurs="1"/>
    <xs:element name="statusUpdateTime" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
    <xs:element name="informationManagerOverride" type="com:InternationalIdentifier" minOccurs="0"/>
    <xs:element name="vmsStatus" type="vms:_VmsControllerStatusVmsIndexVmsStatus" minOccurs="0"
    maxOccurs="unbounded"/>
    <xs:element name="vmsControllerFault" type="vms:VmsControllerFault" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_vmsControllerStatusExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: VmsFault

Super-types:	com:Fault < **VmsFault** (by extension)
Sub-types:	None

Name	VmsFault
Abstract	no
Documentation	Details of the fault which is being reported for the specified variable message sign panel.

XML Instance Representation

```
<...>
  <!-- 'com:Fault' super type was not found in this schema. Some elements and attributes may be missing. -->
  <vms:vmsFault> vms:_VmsFaultEnum </vms:vmsFault> [1] ?
  <vms:_vmsFaultExtension> com:_ExtensionType </vms:_vmsFaultExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsFault">
  <xs:complexContent>
    <xs:extension base="com:Fault">
      <xs:sequence>
        <xs:element name="vmsFault" type="vms:_VmsFaultEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_vmsFaultExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: VmsMessage

Super-types:	None
Sub-types:	None

Name	VmsMessage

Abstract	no
Documentation	A message displayed on a VMS which can comprise one or more sequentially displayed text pages and/or pictograms with supplementary details.

XML Instance Representation

```
<...>
   <vms:associatedTrafficManagementPlan> com:String </vms:associatedTrafficManagementPlan> [0..1] ?
   <vms:messageSetBy> com:MultilingualString </vms:messageSetBy> [0..1] ?
   <vms:setBySystem> com:Boolean </vms:setBySystem> [0..1] ?
   <vms:reasonForSetting> com:MultilingualString </vms:reasonForSetting> [0..1] ?
   <vms:codedReasonForSetting> vms:_SettingReasonEnum </vms:codedReasonForSetting> [0..1] ?
   <vms:messageInformationType> vms:_MessageInformationTypeEnum </vms:messageInformationType> [0..*] ?
   <vms:primarySetting> com:Boolean </vms:primarySetting> [0..1] ?
   <vms:mareNostrumCompliant> com:Boolean </vms:mareNostrumCompliant> [0..1] ?
   <vms:timeLastSet> com:DateTime </vms:timeLastSet> [1] ?
   <vms:requestedBy> com:MultilingualString </vms:requestedBy> [0..1] ?
   <vms:relatedSituation> vms:_SituationVersionedReference </vms:relatedSituation> [0..*] ?
   <vms:relatedSituationRecord> vms:_SituationRecordVersionedReference </vms:relatedSituationRecord> [0..*] ?
   <vms:distanceFromClosestSituationRecord> com:MetresAsFloat </vms:distanceFromClosestSituationRecord> [0..1] ?
   <vms:sequencingInterval> com:Seconds </vms:sequencingInterval> [0..1] ?
   <vms:displayAreaSettings> vms:_VmsMessageDisplayAreaIndexDisplayAreaSettings </vms:displayAreaSettings> [0..*]
   <vms:image> vms:Image </vms:image> [0..1]
   <vms:_vmsMessageExtension> com:_ExtensionType </vms:_vmsMessageExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsMessage">
   <xs:sequence>
      <xs:element name="associatedTrafficManagementPlan" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="messageSetBy" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="setBySystem" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="reasonForSetting" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="codedReasonForSetting" type="vms:_SettingReasonEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="messageInformationType" type="vms:_MessageInformationTypeEnum" minOccurs="0"
      maxOccurs="unbounded"/>
      <xs:element name="primarySetting" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="mareNostrumCompliant" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="timeLastSet" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
      <xs:element name="requestedBy" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="relatedSituation" type="vms:_SituationVersionedReference" minOccurs="0"
      maxOccurs="unbounded"/>
      <xs:element name="relatedSituationRecord" type="vms:_SituationRecordVersionedReference" minOccurs="0"
      maxOccurs="unbounded"/>
      <xs:element name="distanceFromClosestSituationRecord" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="sequencingInterval" type="com:Seconds" minOccurs="0" maxOccurs="1"/>
      <xs:element name="displayAreaSettings" type="vms:_VmsMessageDisplayAreaIndexDisplayAreaSettings" minOccurs="0"
      maxOccurs="unbounded"/>
      <xs:element name="image" type="vms:Image" minOccurs="0"/>
      <xs:element name="_vmsMessageExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: VmsStatus

Super-types:	None
Sub-types:	None

Name	VmsStatus
Abstract	no
Documentation	Provides the current status and settings of the VMS and the currently displayed information.

XML Instance Representation

```
<...>
   <vms:flashingLightsOn> com:Boolean </vms:flashingLightsOn> [0..1] ?
   <vms:remainingPowerCapacity> com:Seconds </vms:remainingPowerCapacity> [0..1] ?
   <vms:statusUpdateTime> com:DateTime </vms:statusUpdateTime> [0..1] ?
   <vms:sequencingInterval> com:Seconds </vms:sequencingInterval> [0..1] ?
   <vms:workingStatus> vms:_WorkingStatusEnum </vms:workingStatus> [0..1] ?
   <vms:vmsDynamicConfiguration> vms:VmsConfiguration </vms:vmsDynamicConfiguration> [0..1]
   <vms:vmsMessage> vms:_VmsStatusMessageIndexVmsMessage </vms:vmsMessage> [0..*]
   <vms:vmsLocationOverride> loc:Location </vms:vmsLocationOverride> [0..1] ?
   <vms:managedLogicalLocationOverride> vms:ManagedLogicalLocation </vms:managedLogicalLocationOverride> [0..1] ?
   <vms:vmsFault> vms:VmsFault </vms:vmsFault> [0..*]
   <vms:_vmsStatusExtension> com:_ExtensionType </vms:_vmsStatusExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsStatus">
   <xs:sequence>
      <xs:element name="flashingLightsOn" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="remainingPowerCapacity" type="com:Seconds" minOccurs="0" maxOccurs="1"/>
      <xs:element name="statusUpdateTime" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
      <xs:element name="sequencingInterval" type="com:Seconds" minOccurs="0" maxOccurs="1"/>
      <xs:element name="workingStatus" type="vms:_WorkingStatusEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsDynamicConfiguration" type="vms:VmsConfiguration" minOccurs="0"/>
      <xs:element name="vmsMessage" type="vms:_VmsStatusMessageIndexVmsMessage" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="vmsLocationOverride" type="loc:Location" minOccurs="0"/>
      <xs:element name="managedLogicalLocationOverride" type="vms:ManagedLogicalLocation" minOccurs="0"/>
      <xs:element name="vmsFault" type="vms:VmsFault" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="_vmsStatusExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
```

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

top

Complex Type: _ColourEnum

Super-types:	xs:string < ColourEnum (by restriction) < **_ColourEnum** (by extension)
Sub-types:	None

Name	_ColourEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_ColourEnum">
  <xs:simpleContent>
    <xs:extension base="vms:ColourEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _CompositePictogramEnum

Super-types:	xs:string < CompositePictogramEnum (by restriction) < **_CompositePictogramEnum** (by extension)
Sub-types:	None

Name	_CompositePictogramEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_CompositePictogramEnum">
  <xs:simpleContent>
    <xs:extension base="vms:CompositePictogramEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DisplayedNumericalInformationTypeEnum

Super-types:	xs:string < DisplayedNumericalInformationTypeEnum (by restriction) < **_DisplayedNumericalInformationTypeEnum** (by extension)
Sub-types:	None

Name	_DisplayedNumericalInformationTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_DisplayedNumericalInformationTypeEnum">
  <xs:simpleContent>
    <xs:extension base="vms:DisplayedNumericalInformationTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _GddServiceCategoryEnum

Super-types:	xs:string < GddServiceCategoryEnum (by restriction) < **_GddServiceCategoryEnum** (by extension)
Sub-types:	None

Name	_GddServiceCategoryEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_GddServiceCategoryEnum">
  <xs:simpleContent>
    <xs:extension base="vms:GddServiceCategoryEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _ImageFormatEnum

Super-types:	xs:string < ImageFormatEnum (by restriction) < **_ImageFormatEnum** (by extension)
Sub-types:	None

Name	_ImageFormatEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_ImageFormatEnum">
  <xs:simpleContent>
    <xs:extension base="vms:ImageFormatEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _InformationTypeEnum

Super-types:	xs:string < InformationTypeEnum (by restriction) < **_InformationTypeEnum** (by extension)
Sub-types:	None

Name	_InformationTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_InformationTypeEnum">
  <xs:simpleContent>
    <xs:extension base="vms:InformationTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _MessageInformationTypeEnum

Super-types:	xs:string < MessageInformationTypeEnum (by restriction) < **_MessageInformationTypeEnum** (by extension)
Sub-types:	None

Name	_MessageInformationTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_MessageInformationTypeEnum">
  <xs:simpleContent>
    <xs:extension base="vms:MessageInformationTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _MultiPageDisplayPageNumberDisplayAreaSettings

Super-types:	None
Sub-types:	None

Name	_MultiPageDisplayPageNumberDisplayAreaSettings
Abstract	no

XML Instance Representation

```
<...
 pageNumber="xs:int [1]">
   <vms:displayAreaSettings> vms:DisplayAreaSettings </vms:displayAreaSettings> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_MultiPageDisplayPageNumberDisplayAreaSettings">
  <xs:sequence>
    <xs:element name="displayAreaSettings" type="vms:DisplayAreaSettings" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="pageNumber" type="xs:int" use="required"/>
</xs:complexType>
```

top

Complex Type: _PictogramEnum

Super-types:	xs:string < PictogramEnum (by restriction) < **_PictogramEnum** (by extension)
Sub-types:	None

Name	_PictogramEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_PictogramEnum">
  <xs:simpleContent>
    <xs:extension base="vms:PictogramEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _PositionXAbsoluteEnum

Super-types:	xs:string < PositionXAbsoluteEnum (by restriction) < **_PositionXAbsoluteEnum** (by extension)
Sub-types:	None

Name	_PositionXAbsoluteEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_PositionXAbsoluteEnum">
  <xs:simpleContent>
    <xs:extension base="vms:PositionXAbsoluteEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _PositionXRelativeEnum

Super-types:	xs:string < PositionXRelativeEnum (by restriction) < **_PositionXRelativeEnum** (by extension)
Sub-types:	None

Name	_PositionXRelativeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_PositionXRelativeEnum">
  <xs:simpleContent>
    <xs:extension base="vms:PositionXRelativeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _PositionYAbsoluteEnum

Super-types:	xs:string < PositionYAbsoluteEnum (by restriction) < **_PositionYAbsoluteEnum** (by extension)
Sub-types:	None

Name	_PositionYAbsoluteEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_PositionYAbsoluteEnum">
  <xs:simpleContent>
    <xs:extension base="vms:PositionYAbsoluteEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _PositionYRelativeEnum

Super-types:	xs:string < PositionYRelativeEnum (by restriction) < **_PositionYRelativeEnum** (by extension)
Sub-types:	None

Name	_PositionYRelativeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_PositionYRelativeEnum">
  <xs:simpleContent>
    <xs:extension base="vms:PositionYRelativeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _SettingReasonEnum

Super-types:	xs:string < SettingReasonEnum (by restriction) < **_SettingReasonEnum** (by extension)
Sub-types:	None

Name	_SettingReasonEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_SettingReasonEnum">
  <xs:simpleContent>
    <xs:extension base="vms:SettingReasonEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _SituationRecordVersionedReference

Super-types:	com:VersionedReference < **_SituationRecordVersionedReference** (by extension)
Sub-types:	None

Name	_SituationRecordVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="sit:SituationRecord [1]">
   <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
   missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_SituationRecordVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="sit:SituationRecord"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _SituationVersionedReference

Super-types:	com:VersionedReference < **_SituationVersionedReference** (by extension)
Sub-types:	None

Name	_SituationVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="sit:Situation [1]">
   <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
   missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_SituationVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="sit:Situation"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _SupplementalPictogramEnum

Super-types:	xs:string < SupplementalPictogramEnum (by restriction) < **_SupplementalPictogramEnum** (by extension)
Sub-types:	None

Name	_SupplementalPictogramEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_SupplementalPictogramEnum">
  <xs:simpleContent>
```

```
    <xs:extension base="vms:SupplementalPictogramEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _TextDisplayLineIndexTextLine

Super-types:	None
Sub-types:	None

Name	_TextDisplayLineIndexTextLine
Abstract	no

XML Instance Representation

```
<...
 lineIndex="xs:int [1]">
  <vms:textLine> vms:TextLine </vms:textLine> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_TextDisplayLineIndexTextLine">
  <xs:sequence>
    <xs:element name="textLine" type="vms:TextLine" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="lineIndex" type="xs:int" use="required"/>
</xs:complexType>
```

top

Complex Type: _UnitOfMeasureEnum

Super-types:	xs:string < UnitOfMeasureEnum (by restriction) < **_UnitOfMeasureEnum** (by extension)
Sub-types:	None

Name	_UnitOfMeasureEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_UnitOfMeasureEnum">
  <xs:simpleContent>
    <xs:extension base="vms:UnitOfMeasureEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _VmsConfigurationDisplayAreaIndexDisplayArea

Super-types:	None
Sub-types:	None

Name	_VmsConfigurationDisplayAreaIndexDisplayArea
Abstract	no

XML Instance Representation

```
<...
 displayAreaIndex="xs:int [1]">
  <vms:displayArea> vms:DisplayArea </vms:displayArea> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_VmsConfigurationDisplayAreaIndexDisplayArea">
  <xs:sequence>
    <xs:element name="displayArea" type="vms:DisplayArea" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="displayAreaIndex" type="xs:int" use="required"/>
</xs:complexType>
```

top

Complex Type: _VmsControllerFaultEnum

Super-types:	xs:string < VmsControllerFaultEnum (by restriction) < **_VmsControllerFaultEnum** (by extension)

Sub-types:	None

Name	_VmsControllerFaultEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_VmsControllerFaultEnum">
  <xs:simpleContent>
    <xs:extension base="vms:VmsControllerFaultEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _VmsControllerStatusVmsIndexVmsStatus

Super-types:	None
Sub-types:	None

Name	_VmsControllerStatusVmsIndexVmsStatus
Abstract	no

XML Instance Representation

```
<...
 vmsIndex="xs:int [1]">
   <vms:vmsStatus> vms:VmsStatus </vms:vmsStatus> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_VmsControllerStatusVmsIndexVmsStatus">
  <xs:sequence>
    <xs:element name="vmsStatus" type="vms:VmsStatus" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="vmsIndex" type="xs:int" use="required"/>
</xs:complexType>
```

top

Complex Type: _VmsControllerTableVersionedReference

Super-types:	com:VersionedReference < **_VmsControllerTableVersionedReference** (by extension)
Sub-types:	None

Name	_VmsControllerTableVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="vms:VmsControllerTable [1]">
   <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
   missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_VmsControllerTableVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="vms:VmsControllerTable"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _VmsControllerVersionedReference

Super-types:	com:VersionedReference < **_VmsControllerVersionedReference** (by extension)
Sub-types:	None

Name	_VmsControllerVersionedReference
Abstract	no

XML Instance Representation

```
<...
 targetClass="vms:VmsController [1]">
   <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
   missing. -->
```

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

Schema Component Representation

```
<xs:complexType name="_VmsControllerVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="vms:VmsController"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _VmsFaultEnum

Super-types:	xs:string < VmsFaultEnum (by restriction) < **_VmsFaultEnum** (by extension)
Sub-types:	None

Name	_VmsFaultEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_VmsFaultEnum">
  <xs:simpleContent>
    <xs:extension base="vms:VmsFaultEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _VmsMessageDisplayAreaIndexDisplayAreaSettings

Super-types:	None
Sub-types:	None

Name	_VmsMessageDisplayAreaIndexDisplayAreaSettings
Abstract	no

XML Instance Representation

```
<...
 displayAreaIndex="xs:int [1]">
  <vms:displayAreaSettings> vms:DisplayAreaSettings </vms:displayAreaSettings> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_VmsMessageDisplayAreaIndexDisplayAreaSettings">
  <xs:sequence>
    <xs:element name="displayAreaSettings" type="vms:DisplayAreaSettings" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="displayAreaIndex" type="xs:int" use="required"/>
</xs:complexType>
```

top

Complex Type: _VmsStatusMessageIndexVmsMessage

Super-types:	None
Sub-types:	None

Name	_VmsStatusMessageIndexVmsMessage
Abstract	no

XML Instance Representation

```
<...
 messageIndex="xs:int [1]">
  <vms:vmsMessage> vms:VmsMessage </vms:vmsMessage> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_VmsStatusMessageIndexVmsMessage">
  <xs:sequence>
    <xs:element name="vmsMessage" type="vms:VmsMessage" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="messageIndex" type="xs:int" use="required"/>
</xs:complexType>
```

top

Complex Type: _WorkingStatusEnum

Super-types:	xs:string < WorkingStatusEnum (by restriction) < **_WorkingStatusEnum** (by extension)
Sub-types:	None

Name	_WorkingStatusEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_WorkingStatusEnum">
  <xs:simpleContent>
    <xs:extension base="vms:WorkingStatusEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

top

Simple Type: ColourEnum

Super-types:	xs:string < **ColourEnum** (by restriction)
Sub-types:	• _ColourEnum (by extension)

Name	ColourEnum
Content	• Base XSD Type: string • *value* comes from list: {'amber'|'blue'|'green'|'red'|'white'|'whiteYellow'|'_extended'}
Documentation	Colours.

Schema Component Representation

```
<xs:simpleType name="ColourEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="amber"/>
    <xs:enumeration value="blue"/>
    <xs:enumeration value="green"/>
    <xs:enumeration value="red"/>
    <xs:enumeration value="white"/>
    <xs:enumeration value="whiteYellow"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: CompositePictogramEnum

Super-types:	xs:string < **CompositePictogramEnum** (by restriction)
Sub-types:	• _CompositePictogramEnum (by extension)

Name	CompositePictogramEnum
Content	• Base XSD Type: string • *value* comes from list: {'conditionOnCurrentSectionAfterNextExit'|'conditionAtNextExit'|'conditionOnCurrentSectionAfterSecondtExit'|'conditionAtSecondExit'|'restrictionOnC
Documentation	Identifies a pictogram used only for building a composite pictogram

Schema Component Representation

```
<xs:simpleType name="CompositePictogramEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="conditionOnCurrentSectionAfterNextExit"/>
    <xs:enumeration value="conditionAtNextExit"/>
    <xs:enumeration value="conditionOnCurrentSectionAfterSecondtExit"/>
    <xs:enumeration value="conditionAtSecondExit"/>
    <xs:enumeration value="restrictionOnCurrentSectionAfterNextExit"/>
    <xs:enumeration value="restrictionAtNextExit"/>
    <xs:enumeration value="restrictionOnCurrentSectionAfterSecondExit"/>
    <xs:enumeration value="restrictionAtSecondtExit"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: DisplayedNumericalInformationTypeEnum

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

Sub-types:	• _DisplayedNumericalInformationTypeEnum (by extension)

Name DisplayedNumericalInformationTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'distance'|'height'|'length'|'rateOfIncline'|'sectionLength'|'speed'|'weight'|'weightPerAxle'|'width'|'_extended'}

Documentation Type of numerical information displayed

Schema Component Representation

```
<xs:simpleType name="DisplayedNumericalInformationTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="distance"/>
    <xs:enumeration value="height"/>
    <xs:enumeration value="length"/>
    <xs:enumeration value="rateOfIncline"/>
    <xs:enumeration value="sectionLength"/>
    <xs:enumeration value="speed"/>
    <xs:enumeration value="weight"/>
    <xs:enumeration value="weightPerAxle"/>
    <xs:enumeration value="width"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: GddPictogramCategoryCode

Super-types:	xs:positiveInteger < **GddPictogramCategoryCode** (by restriction)
Sub-types:	None

Name GddPictogramCategoryCode

Content

- Base XSD Type: positiveInteger

Documentation A 3-digit code to identify a pictogram, as defined in ISO 14823 Graphic Data Dictionary. That standard is inconsistent in its definition of the value range; this model uses the more permissive definition where the bounds are 100 and 999.

Schema Component Representation

```
<xs:simpleType name="GddPictogramCategoryCode">
  <xs:restriction base="xs:positiveInteger"/>
</xs:simpleType>
```

top

Simple Type: GddServiceCategoryEnum

Super-types:	xs:string < **GddServiceCategoryEnum** (by restriction)
Sub-types:	• _GddServiceCategoryEnum (by extension)

Name GddServiceCategoryEnum

Content

- Base XSD Type: string
- *value* comes from list: {'dangerWarning'|'regulatory'|'informative'|'publicFacilities'|'ambientConditions'|'roadConditions'|'_extended'}

Documentation Type of service offered by the pictogram, as defined in ISO 14823.

Schema Component Representation

```
<xs:simpleType name="GddServiceCategoryEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="dangerWarning"/>
    <xs:enumeration value="regulatory"/>
    <xs:enumeration value="informative"/>
    <xs:enumeration value="publicFacilities"/>
    <xs:enumeration value="ambientConditions"/>
    <xs:enumeration value="roadConditions"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ImageFormatEnum

Super-types:	xs:string < **ImageFormatEnum** (by restriction)
Sub-types:	• _ImageFormatEnum (by extension)

Name ImageFormatEnum

Content

- Base XSD Type: string
- *value* comes from list: {'bmp'|'gif'|'jpeg'|'png'|'tiff'|'_extended'}

Documentation Identifies an image format

Schema Component Representation

```
<xs:simpleType name="ImageFormatEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="bmp"/>
    <xs:enumeration value="gif"/>
    <xs:enumeration value="jpeg"/>
    <xs:enumeration value="png"/>
    <xs:enumeration value="tiff"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: InformationTypeEnum

Super-types:	xs:string < **InformationTypeEnum** (by restriction)
Sub-types:	• _InformationTypeEnum (by extension)

Name InformationTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'situationInformation'|'warning'|'prohibition'|'obligation'|'destination'|'travelTime'|'delay'|'location'|'vehicleType'|'generalInformation'|'blank'|'other'|'_exte

Documentation Type of text characterisation.

Schema Component Representation

```
<xs:simpleType name="InformationTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="situationInformation"/>
    <xs:enumeration value="warning"/>
    <xs:enumeration value="prohibition"/>
    <xs:enumeration value="obligation"/>
    <xs:enumeration value="destination"/>
    <xs:enumeration value="travelTime"/>
    <xs:enumeration value="delay"/>
    <xs:enumeration value="location"/>
    <xs:enumeration value="vehicleType"/>
    <xs:enumeration value="generalInformation"/>
    <xs:enumeration value="blank"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: MessageInformationTypeEnum

Super-types:	xs:string < **MessageInformationTypeEnum** (by restriction)
Sub-types:	• _MessageInformationTypeEnum (by extension)

Name MessageInformationTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'campaignMessage'|'dateTime'|'futureInformation'|'instructionOrMessage'|'situationWarning'|'temperature'|'trafficManagement'|'travelTime'|'_extendec

Documentation Types of information displayable on a VMS.

Schema Component Representation

```
<xs:simpleType name="MessageInformationTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="campaignMessage"/>
    <xs:enumeration value="dateTime"/>
    <xs:enumeration value="futureInformation"/>
    <xs:enumeration value="instructionOrMessage"/>
    <xs:enumeration value="situationWarning"/>
    <xs:enumeration value="temperature"/>
    <xs:enumeration value="trafficManagement"/>
    <xs:enumeration value="travelTime"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: PictogramEnum

Super-types:	xs:string < **PictogramEnum** (by restriction)
Sub-types:	• _PictogramEnum (by extension)

Name PictogramEnum

Content

- Base XSD Type: string

- *value* comes from list: {'blankVoid'|'bridgeClosed'|'carParkFull'|'carParkSpacesAvailable'|'corridorForEmergencyVehicleAccess'|'curveArrowToLeft'|'curveArrowToRight'|'dan

Documentation Types of pictogram not currently covered by ISO 14823 Graphic Data Dictionary

Schema Component Representation

```
<xs:simpleType name="PictogramEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="blankVoid"/>
    <xs:enumeration value="bridgeClosed"/>
    <xs:enumeration value="carParkFull"/>
    <xs:enumeration value="carParkSpacesAvailable"/>
    <xs:enumeration value="corridorForEmergencyVehicleAccess"/>
    <xs:enumeration value="curveArrowToLeft"/>
    <xs:enumeration value="curveArrowToRight"/>
    <xs:enumeration value="dangerOfFire"/>
    <xs:enumeration value="doubleExitToLeft"/>
    <xs:enumeration value="doubleExitToRight"/>
    <xs:enumeration value="endOfAdvisorySpeed"/>
    <xs:enumeration value="fastenChildrensSeatBelts"/>
    <xs:enumeration value="fastenYourSeatBelt"/>
    <xs:enumeration value="fire"/>
    <xs:enumeration value="footballMatch"/>
    <xs:enumeration value="hardShoulderNotRunning"/>
    <xs:enumeration value="hardShoulderRunning"/>
    <xs:enumeration value="horizontalDiversionToLeft"/>
    <xs:enumeration value="horizontalDiversionToRight"/>
    <xs:enumeration value="keepASafeDistance"/>
    <xs:enumeration value="keepLeft"/>
    <xs:enumeration value="keepRight"/>
    <xs:enumeration value="lane1ClosedOf2"/>
    <xs:enumeration value="lane2ClosedOf2"/>
    <xs:enumeration value="lane1ClosedOf3"/>
    <xs:enumeration value="lane3ClosedOf3"/>
    <xs:enumeration value="lanes1And2ClosedOf3"/>
    <xs:enumeration value="lanes2And3ClosedOf3"/>
    <xs:enumeration value="lane1ClosedOf4"/>
    <xs:enumeration value="lane4ClosedOf4"/>
    <xs:enumeration value="lanes1And2ClosedOf4"/>
    <xs:enumeration value="lanes3And4ClosedOf4"/>
    <xs:enumeration value="lanes1And2And3ClosedOf4"/>
    <xs:enumeration value="lanes2And3And4ClosedOf4"/>
    <xs:enumeration value="leftHandLaneClosed"/>
    <xs:enumeration value="narrowLanesAhead"/>
    <xs:enumeration value="obliqueArrowToLeft"/>
    <xs:enumeration value="obliqueArrowToRight"/>
    <xs:enumeration value="pollutionOrSmogAlert"/>
    <xs:enumeration value="rightHandLaneClosed"/>
    <xs:enumeration value="singleExitToLeft"/>
    <xs:enumeration value="singleExitToRight"/>
    <xs:enumeration value="smoke"/>
    <xs:enumeration value="snowPloughInAction"/>
    <xs:enumeration value="speedCamerasInAction"/>
    <xs:enumeration value="straightVerticalArrow"/>
    <xs:enumeration value="trafficDeviatedToOppositeCarriagewayAhead"/>
    <xs:enumeration value="trafficPartiallyDeviatedToOppositeCarriagewayAhead"/>
    <xs:enumeration value="tunnelClosed"/>
    <xs:enumeration value="verticalDiversion"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: PositionXAbsoluteEnum

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

Sub-types:

- _PositionXAbsoluteEnum (by extension)

Name PositionXAbsoluteEnum

Content

- Base XSD Type: string
- *value* comes from list: {'onLeft'|'inTheMiddle'|'onRight'|'_extended'}

Documentation Absolute horizontal positions of an item within an assigned space.

Schema Component Representation

```
<xs:simpleType name="PositionXAbsoluteEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="onLeft"/>
    <xs:enumeration value="inTheMiddle"/>
    <xs:enumeration value="onRight"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: PositionXRelativeEnum

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

Sub-types:

- _PositionXRelativeEnum (by extension)

Name PositionXRelativeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'toTheLeft'|'alignedOnTheLeftSide'|'centred'|'alignedOnTheRightSide'|'toTheRight'|'_extended'}

Documentation Relative horizontal positions of one item to another.

Schema Component Representation

```
<xs:simpleType name="PositionXRelativeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="toTheLeft"/>
    <xs:enumeration value="alignedOnTheLeftSide"/>
    <xs:enumeration value="centred"/>
    <xs:enumeration value="alignedOnTheRightSide"/>
    <xs:enumeration value="toTheRight"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: PositionYAbsoluteEnum

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

Sub-types:

- _PositionYAbsoluteEnum (by extension)

Name PositionYAbsoluteEnum

Content

- Base XSD Type: string
- *value* comes from list: {'atTop'|'inTheMiddle'|'atBottom'|'_extended'}

Documentation Absolute verticals positions of an item within an assigned space.

Schema Component Representation

```
<xs:simpleType name="PositionYAbsoluteEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="atTop"/>
    <xs:enumeration value="inTheMiddle"/>
    <xs:enumeration value="atBottom"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: PositionYRelativeEnum

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

Sub-types:

- _PositionYRelativeEnum (by extension)

Name PositionYRelativeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'above'|'alignedOnTheTopSide'|'centred'|'alignedOnTheBottomSide'|'below'|'_extended'}

Documentation Relative vertical positions of one item to another.

Schema Component Representation

```
<xs:simpleType name="PositionYRelativeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="above"/>
    <xs:enumeration value="alignedOnTheTopSide"/>
    <xs:enumeration value="centred"/>
    <xs:enumeration value="alignedOnTheBottomSide"/>
    <xs:enumeration value="below"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: SettingReasonEnum

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

Sub-types:

- _SettingReasonEnum (by extension)

Name SettingReasonEnum

Content

- Base XSD Type: string
- *value* comes from list: {'situation'|'operatorCreated'|'trafficManagement'|'travelTime'|'campaign'|'default'|'_extended'}

Documentation Coded reasons why a message has been selected for display on the sign.

Schema Component Representation

```
<xs:simpleType name="SettingReasonEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="situation"/>
    <xs:enumeration value="operatorCreated"/>
    <xs:enumeration value="trafficManagement"/>
    <xs:enumeration value="travelTime"/>
    <xs:enumeration value="campaign"/>
    <xs:enumeration value="default"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: SupplementalPictogramEnum

Super-types:	xs:string < **SupplementalPictogramEnum** (by restriction)
Sub-types:	• _SupplementalPictogramEnum (by extension)

Name SupplementalPictogramEnum

Content

- Base XSD Type: string
- *value* comes from list:
  {'distanceToTheBeginningOfTheApplicationZone'|'exceptAnyPowerDrivenVehicleDrawingTrailer'|'exceptBus'|'exceptGoodsVehicles'|'exceptSemitraile

Documentation Types of pictograms displayable in supplementary panels (normally below the main pictogram display which it qualifies).

Schema Component Representation

```
<xs:simpleType name="SupplementalPictogramEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="distanceToTheBeginningOfTheApplicationZone"/>
    <xs:enumeration value="exceptAnyPowerDrivenVehicleDrawingTrailer"/>
    <xs:enumeration value="exceptBus"/>
    <xs:enumeration value="exceptGoodsVehicles"/>
    <xs:enumeration value="exceptSemitrailer"/>
    <xs:enumeration value="exceptVehiclesCarryingDangerousGoods"/>
    <xs:enumeration value="inCaseOfIceOrSnow"/>
    <xs:enumeration value="lengthOfTheApplicationZone"/>
    <xs:enumeration value="restrictedToAnyPowerDrivenVehicleDrawingTrailer"/>
    <xs:enumeration value="restrictedToBus"/>
    <xs:enumeration value="restrictedToGoodsVehicles"/>
    <xs:enumeration value="restrictedToSemiTrailer"/>
    <xs:enumeration value="restrictedToVehiclesCarryingDangerousGoods"/>
    <xs:enumeration value="maintenanceVehicles"/>
    <xs:enumeration value="snowPloughs"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: UnitOfMeasureEnum

Super-types:	xs:string < **UnitOfMeasureEnum** (by restriction)
Sub-types:	• _UnitOfMeasureEnum (by extension)

Name UnitOfMeasureEnum

Content

- Base XSD Type: string
- *value* comes from list:
  {'feet'|'feetAndInches'|'kilometres'|'kilometresPerHour'|'metres'|'miles'|'milesPerHour'|'percentage'|'tonnes'|'yards'|'_extended'}

Documentation Identifies a unit of measure for a physical quantity

Schema Component Representation

```
<xs:simpleType name="UnitOfMeasureEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="feet"/>
    <xs:enumeration value="feetAndInches"/>
    <xs:enumeration value="kilometres"/>
    <xs:enumeration value="kilometresPerHour"/>
    <xs:enumeration value="metres"/>
    <xs:enumeration value="miles"/>
    <xs:enumeration value="milesPerHour"/>
    <xs:enumeration value="percentage"/>
    <xs:enumeration value="tonnes"/>
    <xs:enumeration value="yards"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: VmsControllerFaultEnum

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

- _VmsControllerFaultEnum (by extension)

Name VmsControllerFaultEnum

Content

- Base XSD Type: string
- *value* comes from list: {'communicationsFailure'|'powerFailure'|'unknown'|'other'|'_extended'}

Documentation Types of variable message sign controller faults.

Schema Component Representation

```
<xs:simpleType name="VmsControllerFaultEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="communicationsFailure"/>
    <xs:enumeration value="powerFailure"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: VmsFaultEnum

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

Sub-types:

- _VmsFaultEnum (by extension)

Name VmsFaultEnum

Content

- Base XSD Type: string
- *value* comes from list: {'incorrectMessageDisplayed'|'incorrectPictogramDisplayed'|'outOfService'|'unableToClearDown'|'unknown'|'other'|'_extended'}

Documentation Types of variable message sign faults.

Schema Component Representation

```
<xs:simpleType name="VmsFaultEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="incorrectMessageDisplayed"/>
    <xs:enumeration value="incorrectPictogramDisplayed"/>
    <xs:enumeration value="outOfService"/>
    <xs:enumeration value="unableToClearDown"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: WorkingStatusEnum

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

Sub-types:

- _WorkingStatusEnum (by extension)

Name WorkingStatusEnum

Content

- Base XSD Type: string
- *value* comes from list: {'blank'|'covered'|'notWorking'|'working'|'_extended'}

Documentation Identifies the working status of a VMS.

Schema Component Representation

```
<xs:simpleType name="WorkingStatusEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="blank"/>
    <xs:enumeration value="covered"/>
    <xs:enumeration value="notWorking"/>
    <xs:enumeration value="working"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top