Realis ITS

Version 14.12.2022

DatexII 3.3 profile realissrti-3.0

DATEXII_3_Common

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/common**
Version	3.3
Element and Attribute Namespaces	

- Global element and attribute declarations belong to this schema's target namespace.
- By default, local element declarations belong to this schema's target namespace.
- By default, local attribute declarations have no namespace.

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**

Schema Component Representation

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

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Global Definitions

Complex Type: DataValue

Super-types:	None
Sub-types:	

- SpeedValue (by extension)
- VehicleFlowValue (by extension)

Name	DataValue
Abstract	yes
Documentation	A data value of something that can be measured or calculated. Any provided meta-data values specified in the attributes override any specified generic characteristics such as defined for a specific measurement in the MeasurementSiteTable.

XML Instance Representation

```
<...
  accuracy="com:Percentage [0..1] ?"
  computationalMethod="com:ComputationMethodEnum [0..1] ?"
  numberOfIncompleteInputs="com:NonNegativeInteger [0..1] ?"
  numberOfInputValuesUsed="com:NonNegativeInteger [0..1] ?"
  smoothingFactor="com:Float [0..1] ?"
  standardDeviation="com:Float [0..1] ?"
  supplierCalculatedDataQuality="com:Percentage [0..1] ?">
    <com:dataError> com:Boolean </com:dataError> [0..1] ?
    <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1] ?
    <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DataValue" abstract="true">
  <xs:sequence>
    <xs:element name="dataError" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="reasonForDataError" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_dataValueExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="accuracy" type="com:Percentage" use="optional"/>
  <xs:attribute name="computationalMethod" type="com:ComputationMethodEnum" use="optional"/>
  <xs:attribute name="numberOfIncompleteInputs" type="com:NonNegativeInteger" use="optional"/>
  <xs:attribute name="numberOfInputValuesUsed" type="com:NonNegativeInteger" use="optional"/>
  <xs:attribute name="smoothingFactor" type="com:Float" use="optional"/>
  <xs:attribute name="standardDeviation" type="com:Float" use="optional"/>
  <xs:attribute name="supplierCalculatedDataQuality" type="com:Percentage" use="optional"/>
</xs:complexType>
```

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: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="informationStatus" type="com:_InformationStatusEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_headerInformationExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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>
```

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>
```

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>
```

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>
```

Complex Type: PayloadPublication

Super-types:	None
Sub-types:	None

Name	PayloadPublication

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

XML Instance Representation

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

Schema Component Representation

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

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>
```

Complex Type: SpeedValue

Super-types:	DataValue < **SpeedValue** (by extension)
Sub-types:	None

Name	SpeedValue
Abstract	no
Documentation	A measured or calculated value of speed.

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1] ? "
 computationalMethod="com:ComputationMethodEnum [0..1] ? "
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1] ? "
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1] ? "
 smoothingFactor="com:Float [0..1] ? "
 standardDeviation="com:Float [0..1] ? "
 supplierCalculatedDataQuality="com:Percentage [0..1] ? ">
   <com:dataError> com:Boolean </com:dataError> [0..1] ?
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1] ?
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:speed> com:KilometresPerHour </com:speed> [1] ?
   <com:_speedValueExtension> com:_ExtensionType </com:_speedValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SpeedValue">
   <xs:complexContent>
      <xs:extension base="com:DataValue">
         <xs:sequence>
            <xs:element name="speed" type="com:KilometresPerHour" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_speedValueExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
```

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

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

Schema Component Representation

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

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Complex Type: Vehicle

Super-types:	None
Sub-types:	None

Name Vehicle

Abstract no

Documentation Details of an individual vehicle.

XML Instance Representation

```
<...>
  <com:vehicleCharacteristics> com:VehicleCharacteristics </com:vehicleCharacteristics> [0..1]
  <com:_vehicleExtension> com:_ExtensionType </com:_vehicleExtension> [0..1]
</...>
```

Schema Component Representation

```xml
<xs:complexType name="Vehicle">
  <xs:sequence>
    <xs:element name="vehicleCharacteristics" type="com:VehicleCharacteristics" minOccurs="0"/>
    <xs:element name="_vehicleExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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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:vehicleType> com:_VehicleTypeEnum </com:vehicleType> [0..*] ?
  <com:_vehicleCharacteristicsExtension> com:_ExtensionType </com:_vehicleCharacteristicsExtension> [0..1]
</...>
```

Schema Component Representation

```xml
<xs:complexType name="VehicleCharacteristics">
  <xs:sequence>
    <xs:element name="vehicleType" type="com:_VehicleTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_vehicleCharacteristicsExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: VehicleFlowValue

Super-types:	[DataValue](#) < **VehicleFlowValue** (by extension)
Sub-types:	None

Name	VehicleFlowValue
Abstract	no
Documentation	A measured or calculated value of the flow rate of vehicles.

XML Instance Representation

```
<...
  accuracy="com:Percentage [0..1] ? "
  computationalMethod="com:ComputationMethodEnum [0..1] ? "
  numberOfIncompleteInputs="com:NonNegativeInteger [0..1] ? "
  numberOfInputValuesUsed="com:NonNegativeInteger [0..1] ? "
  smoothingFactor="com:Float [0..1] ? "
  standardDeviation="com:Float [0..1] ? "
  supplierCalculatedDataQuality="com:Percentage [0..1] ? ">
   <com:dataError> com:Boolean </com:dataError> [0..1] ?
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1] ?
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:vehicleFlowRate> com:VehiclesPerHour </com:vehicleFlowRate> [1] ?
   <com:_vehicleFlowValueExtension> com:_ExtensionType </com:_vehicleFlowValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VehicleFlowValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="vehicleFlowRate" type="com:VehiclesPerHour" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_vehicleFlowValueExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: _ComputationMethodEnum

Super-types:	[xs](#):string < [ComputationMethodEnum](#) (by restriction) < **_ComputationMethodEnum** (by extension)
Sub-types:	None

Name	_ComputationMethodEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

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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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

Simple Type: ComputationMethodEnum

Super-types:	xs:string < **ComputationMethodEnum** (by restriction)
Sub-types:	• _ComputationMethodEnum (by extension)

Name — ComputationMethodEnum

Content

- Base XSD Type: string
- *value* comes from list: {'arithmeticAverageOfSamplesBasedOnAFixedNumberOfSamples'|'arithmeticAverageOfSamplesInATimePeriod'|'harmonicAverageOfSamplesInATim

Documentation — Types of computational methods used in deriving data values for data sets.

Schema Component Representation

```
<xs:simpleType name="ComputationMethodEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="arithmeticAverageOfSamplesBasedOnAFixedNumberOfSamples"/>
    <xs:enumeration value="arithmeticAverageOfSamplesInATimePeriod"/>
    <xs:enumeration value="harmonicAverageOfSamplesInATimePeriod"/>
    <xs:enumeration value="medianOfSamplesInATimePeriod"/>
    <xs:enumeration value="movingAverageOfSamples"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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>
```

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>
```

Simple Type: Float

Super-types:	xs:float < **Float** (by restriction)
Sub-types:	[KilometresPerHour](#) (by restriction) [MetresAsFloat](#) (by restriction) [Percentage](#) (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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

Simple Type: NonNegativeInteger

Super-types:	xs:nonNegativeInteger < **NonNegativeInteger** (by restriction)
Sub-types:	• AngleInDegrees (by restriction) • MetresAsNonNegativeInteger (by restriction) • VehiclesPerHour (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>
```

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>
```

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: 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: 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>
```

Simple Type: VehiclesPerHour

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

Name VehiclesPerHour

Content
- Base XSD Type: nonNegativeInteger

Documentation Vehicles per hour.

Schema Component Representation

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

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>
```

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'|'m

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>
```

DATEXII_3_D2Payload

Table of Contents

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/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
sit	http://datex2.eu/schema/3/situation
loc	http://datex2.eu/schema/3/locationReferencing
com	http://datex2.eu/schema/3/common
d2	**http://datex2.eu/schema/3/d2Payload**

Schema Component Representation

```xml
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified"
version="3.3" targetNamespace="http://datex2.eu/schema/3/d2Payload">
   <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>
```

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 - _payloadSituationConstraint
   Selector - .//sit:situation
   Field(s) - @id
   -->
</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="_payloadSituationConstraint">
      <xs:selector xpath=".//sit:situation"/>
      <xs:field xpath="@id"/>
   </xs:unique>
</xs:element>
```

DATEXII_3_LocationReferencing

Table of Contents

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)

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
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:schema>
```

Global Definitions

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>
```

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>
```

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

```xml
<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>
```

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

```xml
<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>
```

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

```xml
<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>
```

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

```xml
<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>
```

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

```xml
<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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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: 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:_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="_carriagewayExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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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>
```

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>
```

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>
```

Complex Type: GmlLineString

Super-types:	None
Sub-types:	None

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>
```

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>
```

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>
```

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>
```

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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>
```

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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>
```

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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> com:_ExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
   <loc:supplementaryPositionalDescription> loc:SupplementaryPositionalDescription
   </loc:supplementaryPositionalDescription> [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>
```

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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>
```

Complex Type: Location

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

Sub-types:	• 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> com:_ExtensionType </loc:_locationReferenceExtension> [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="_locationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

Complex Type: LocationReference

Super-types:	None

Sub-types:	• Location (by extension)
	    ○ NetworkLocation (by extension)
	        ■ LinearLocation (by extension)
	            SingleRoadLinearLocation (by extension)
	        ■ PointLocation (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> com:_ExtensionType </loc:_locationReferenceExtension> [0..1]
</...>
```

Schema Component Representation

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

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> com:_ExtensionType </loc:_locationReferenceExtension> [0..1]
   <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
   <loc:supplementaryPositionalDescription> loc:SupplementaryPositionalDescription
   </loc:supplementaryPositionalDescription> [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="_networkLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

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>
```

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>
```

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>
```

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>
```

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

```xml
<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>
```

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

```xml
<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>
```

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

```xml
<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>
```

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

```xml
<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>
```

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

```xml
<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>
```

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

```xml
<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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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> com:_ExtensionType </loc:_locationReferenceExtension> [0..1]
  <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
  <loc:supplementaryPositionalDescription> loc:SupplementaryPositionalDescription
  </loc:supplementaryPositionalDescription> [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: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="openlrPointLocationReference" type="loc:OpenlrPointLocationReference" minOccurs="0"/>
        <xs:element name="_pointLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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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>
```

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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: 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> com:_ExtensionType </loc:_locationReferenceExtension> [0..1]
    <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
    <loc:supplementaryPositionalDescription> loc:SupplementaryPositionalDescription
    </loc:supplementaryPositionalDescription> [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: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="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

```
<...>
   <loc:infrastructureDescriptor> loc:_InfrastructureDescriptorEnum </loc:infrastructureDescriptor> [0..1] ?
   <loc:carriageway> loc:Carriageway </loc:carriageway> [0..*]
   <loc:_supplementaryPositionalDescriptionExtension> com:_ExtensionType
   </loc:_supplementaryPositionalDescriptionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SupplementaryPositionalDescription">
   <xs:sequence>
      <xs:element name="infrastructureDescriptor" type="loc:_InfrastructureDescriptorEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="carriageway" type="loc:Carriageway" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="_supplementaryPositionalDescriptionExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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: _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>
```

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>
```

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>
```

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>
```

<div align="right"><i>top</i></div>

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>
```

<div align="right"><i>top</i></div>

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>
```

<div align="right"><i>top</i></div>

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>
```

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>
```

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>
```

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>
```

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

```xml
<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>
```

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

```xml
<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>
```

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>
```

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>
```

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>
```

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: 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>
```

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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: OpenlrFormOfWayEnum

Super-types:	xs:string < **OpenlrFormOfWayEnum** (by restriction)
Sub-types:	• _OpenlrFormOfWayEnum (by extension)

Name	OpenlrFormOfWayEnum
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>
```

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>
```

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>
```

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"/>
```

```xml
      <xs:enumeration value="right"/>
      <xs:enumeration value="left"/>
      <xs:enumeration value="both"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

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

```xml
<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>
```

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

```xml
<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>
```

DATEXII_3_Situation

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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/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
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/locationReferencing"
   schemaLocation="DATEXII_3_LocationReferencing.xsd"/>
   <xs:import namespace="http://datex2.eu/schema/3/common" schemaLocation="DATEXII_3_Common.xsd"/>
   ...
</xs:schema>
```

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Global Definitions

Complex Type: Accident

Super-types:	SituationRecord < TrafficElement (by extension) < **Accident** (by extension)
Sub-types:	None

Name	Accident
Abstract	no
Documentation	Accidents are events where one or more vehicles are involved in collisions or in leaving the roadway. These include collisions between vehicles or with other road users or obstacles.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
  <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
  <sit:accidentType> sit:_AccidentTypeEnum </sit:accidentType> [1..*] ?
  <sit:vehicleInvolved> com:Vehicle </sit:vehicleInvolved> [0..*] ?
  <sit:_accidentExtension> com:_ExtensionType </sit:_accidentExtension> [0..1]
</...>
```

Schema Component Representation

```xml
<xs:complexType name="Accident">
  <xs:complexContent>
    <xs:extension base="sit:TrafficElement">
      <xs:sequence>
        <xs:element name="accidentType" type="sit:_AccidentTypeEnum" minOccurs="1" maxOccurs="unbounded"/>
        <xs:element name="vehicleInvolved" type="com:Vehicle" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="_accidentExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Complex Type: Activity

Super-types:	SituationRecord < TrafficElement (by extension) < **Activity** (by extension)
Sub-types:	• DisturbanceActivity (by extension)

Name	Activity
Abstract	yes
Documentation	Deliberate human action external to the traffic stream or roadway which could disrupt traffic.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
  <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
  <sit:_activityExtension> com:_ExtensionType </sit:_activityExtension> [0..1]
</...>
```

Schema Component Representation

```xml
<xs:complexType name="Activity" abstract="true">
  <xs:complexContent>
    <xs:extension base="sit:TrafficElement">
      <xs:sequence>
        <xs:element name="_activityExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Complex Type: AnimalPresenceObstruction

Super-types:	SituationRecord < TrafficElement (by extension) < Obstruction (by extension) < **AnimalPresenceObstruction** (by extension)
Sub-types:	None

Name	AnimalPresenceObstruction
Abstract	no
Documentation	An obstruction on the road resulting from the presence of animals.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
   <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
   <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
   <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
   <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
   <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
   <sit:_obstructionExtension> com:_ExtensionType </sit:_obstructionExtension> [0..1]
   <sit:animalPresenceType> sit:_AnimalPresenceTypeEnum </sit:animalPresenceType> [1] ?
   <sit:_animalPresenceObstructionExtension> com:_ExtensionType </sit:_animalPresenceObstructionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AnimalPresenceObstruction">
   <xs:complexContent>
      <xs:extension base="sit:Obstruction">
         <xs:sequence>
            <xs:element name="animalPresenceType" type="sit:_AnimalPresenceTypeEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_animalPresenceObstructionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

Complex Type: Conditions

Super-types:	SituationRecord < TrafficElement (by extension) < **Conditions** (by extension)

Sub-types:	• PoorEnvironmentConditions (by extension)
	• RoadSurfaceConditions (by extension)
	   ○ NonWeatherRelatedRoadConditions (by extension)
	   ○ WeatherRelatedRoadConditions (by extension)

Name	Conditions
Abstract	no
Documentation	Any conditions which have the potential to degrade normal driving conditions.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
   <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
   <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
   <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
   <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
   <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
   <sit:_conditionsExtension> com:_ExtensionType </sit:_conditionsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Conditions">
   <xs:complexContent>
      <xs:extension base="sit:TrafficElement">
         <xs:sequence>
            <xs:element name="_conditionsExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

Complex Type: DisturbanceActivity

Super-types:	SituationRecord < TrafficElement (by extension) < Activity (by extension) < **DisturbanceActivity** (by extension)
Sub-types:	None

Name	DisturbanceActivity
Abstract	no
Documentation	Deliberate human action of either a public disorder nature or of a situation alert type which could disrupt traffic.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
   <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
   <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
   <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
   <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
   <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
   <sit:_activityExtension> com:_ExtensionType </sit:_activityExtension> [0..1]
   <sit:disturbanceActivityType> sit:_DisturbanceActivityTypeEnum </sit:disturbanceActivityType> [1] ?
   <sit:_disturbanceActivityExtension> com:_ExtensionType </sit:_disturbanceActivityExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DisturbanceActivity">
   <xs:complexContent>
      <xs:extension base="sit:Activity">
         <xs:sequence>
            <xs:element name="disturbanceActivityType" type="sit:_DisturbanceActivityTypeEnum" minOccurs="1"
            maxOccurs="1"/>
            <xs:element name="_disturbanceActivityExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

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Complex Type: EnvironmentalObstruction

Super-types:	SituationRecord < TrafficElement (by extension) < Obstruction (by extension) < **EnvironmentalObstruction** (by extension)
Sub-types:	None

Name	EnvironmentalObstruction
Abstract	no
Documentation	An obstruction on the road resulting from an environmental cause.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
   <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
   <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
   <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
   <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
   <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
   <sit:_obstructionExtension> com:_ExtensionType </sit:_obstructionExtension> [0..1]
   <sit:environmentalObstructionType> sit:_EnvironmentalObstructionTypeEnum </sit:environmentalObstructionType> [1] ?
   <sit:_environmentalObstructionExtension> com:_ExtensionType </sit:_environmentalObstructionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="EnvironmentalObstruction">
   <xs:complexContent>
      <xs:extension base="sit:Obstruction">
         <xs:sequence>
            <xs:element name="environmentalObstructionType" type="sit:_EnvironmentalObstructionTypeEnum" minOccurs="1"
            maxOccurs="1"/>
            <xs:element name="_environmentalObstructionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

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Complex Type: GeneralInstructionOrMessageToRoadUsers

Super-types:	SituationRecord < OperatorAction (by extension) < NetworkManagement (by extension) < **GeneralInstructionOrMessageToRoadUsers** (by extension)
Sub-types:	None

Name	GeneralInstructionOrMessageToRoadUsers
Abstract	no
Documentation	General instruction and/or message that is issued by the network/road operator which is applicable to drivers and sometimes passengers.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
```

```
    <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
    <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
    <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
    <sit:validity> com:Validity </sit:validity> [1]
    <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
    <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
    <sit:_operatorActionExtension> com:_ExtensionType </sit:_operatorActionExtension> [0..1]
    <sit:complianceOption> sit:_ComplianceOptionEnum </sit:complianceOption> [1] ?
    <sit:_networkManagementExtension> com:_ExtensionType </sit:_networkManagementExtension> [0..1]
    <sit:generalInstructionToRoadUsersType> sit:_GeneralInstructionToRoadUsersTypeEnum
    </sit:generalInstructionToRoadUsersType> [0..1] ?
    <sit:generalMessageToRoadUsers> com:MultilingualString </sit:generalMessageToRoadUsers> [0..1] ?
    <sit:_generalInstructionOrMessageToRoadUsersExtension> com:_ExtensionType
    </sit:_generalInstructionOrMessageToRoadUsersExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GeneralInstructionOrMessageToRoadUsers">
  <xs:complexContent>
    <xs:extension base="sit:NetworkManagement">
      <xs:sequence>
        <xs:element name="generalInstructionToRoadUsersType" type="sit:_GeneralInstructionToRoadUsersTypeEnum"
        minOccurs="0" maxOccurs="1"/>
        <xs:element name="generalMessageToRoadUsers" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
        <xs:element name="_generalInstructionOrMessageToRoadUsersExtension" type="com:_ExtensionType"
        minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Complex Type: **GeneralObstruction**

Super-types:	[SituationRecord](#) < [TrafficElement](#) (by extension) < [Obstruction](#) (by extension) < **GeneralObstruction** (by extension)
Sub-types:	None

Name	GeneralObstruction
Abstract	no
Documentation	Any stationary or moving obstacle of a physical nature, other than of an animal, vehicle, environmental, or damaged equipment nature.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
  <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
  <sit:_obstructionExtension> com:_ExtensionType </sit:_obstructionExtension> [0..1]
  <sit:obstructionType> sit:_ObstructionTypeEnum </sit:obstructionType> [1..*] ?
  <sit:_generalObstructionExtension> com:_ExtensionType </sit:_generalObstructionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GeneralObstruction">
  <xs:complexContent>
    <xs:extension base="sit:Obstruction">
      <xs:sequence>
        <xs:element name="obstructionType" type="sit:_ObstructionTypeEnum" minOccurs="1" maxOccurs="unbounded"/>
        <xs:element name="_generalObstructionExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Complex Type: **MaintenanceVehicles**

Super-types:	None
Sub-types:	None

Name	MaintenanceVehicles
Abstract	no
Documentation	Details of the maintenance vehicles involved in the roadworks activity.

XML Instance Representation

```
<...>
  <sit:maintenanceVehicleActions> sit:_MaintenanceVehicleActionsEnum </sit:maintenanceVehicleActions> [0..*] ?
  <sit:_maintenanceVehiclesExtension> com:_ExtensionType </sit:_maintenanceVehiclesExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="MaintenanceVehicles">
  <xs:sequence>
    <xs:element name="maintenanceVehicleActions" type="sit:_MaintenanceVehicleActionsEnum" minOccurs="0"
    maxOccurs="unbounded"/>
    <xs:element name="_maintenanceVehiclesExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: MaintenanceWorks

Super-types:	SituationRecord < OperatorAction (by extension) < Roadworks (by extension) < **MaintenanceWorks** (by extension)
Sub-types:	None

Name	MaintenanceWorks
Abstract	no
Documentation	Roadworks involving the maintenance or installation of infrastructure.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:_operatorActionExtension> com:_ExtensionType </sit:_operatorActionExtension> [0..1]
  <sit:maintenanceVehicles> sit:MaintenanceVehicles </sit:maintenanceVehicles> [0..1]
  <sit:_roadworksExtension> com:_ExtensionType </sit:_roadworksExtension> [0..1]
  <sit:roadMaintenanceType> sit:_RoadMaintenanceTypeEnum </sit:roadMaintenanceType> [1..*] ?
  <sit:_maintenanceWorksExtension> com:_ExtensionType </sit:_maintenanceWorksExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="MaintenanceWorks">
  <xs:complexContent>
    <xs:extension base="sit:Roadworks">
      <xs:sequence>
        <xs:element name="roadMaintenanceType" type="sit:_RoadMaintenanceTypeEnum" minOccurs="1"
        maxOccurs="unbounded"/>
        <xs:element name="_maintenanceWorksExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: NetworkManagement

Super-types:	SituationRecord < OperatorAction (by extension) < **NetworkManagement** (by extension)
Sub-types:	• GeneralInstructionOrMessageToRoadUsers (by extension)

Name	NetworkManagement
Abstract	yes
Documentation	Network management action which is applicable to the road network and its users.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:_operatorActionExtension> com:_ExtensionType </sit:_operatorActionExtension> [0..1]
  <sit:complianceOption> sit:_ComplianceOptionEnum </sit:complianceOption> [1] ?
  <sit:_networkManagementExtension> com:_ExtensionType </sit:_networkManagementExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NetworkManagement" abstract="true">
  <xs:complexContent>
    <xs:extension base="sit:OperatorAction">
      <xs:sequence>
        <xs:element name="complianceOption" type="sit:_ComplianceOptionEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_networkManagementExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Complex Type: **NonWeatherRelatedRoadConditions**

Super-types:	SituationRecord < TrafficElement (by extension) < Conditions (by extension) < RoadSurfaceConditions (by extension) < **NonWeatherRelatedRoadConditions** (by extension)
Sub-types:	None

Name	NonWeatherRelatedRoadConditions
Abstract	no
Documentation	Road surface conditions that are not related to the weather but which may affect driving conditions.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
   <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
   <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
   <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
   <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
   <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
   <sit:_conditionsExtension> com:_ExtensionType </sit:_conditionsExtension> [0..1]
   <sit:_roadSurfaceConditionsExtension> com:_ExtensionType </sit:_roadSurfaceConditionsExtension> [0..1]
   <sit:nonWeatherRelatedRoadConditionType> sit:_NonWeatherRelatedRoadConditionTypeEnum
   </sit:nonWeatherRelatedRoadConditionType> [1..*] ?
   <sit:_nonWeatherRelatedRoadConditionsExtension> com:_ExtensionType
   </sit:_nonWeatherRelatedRoadConditionsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NonWeatherRelatedRoadConditions">
   <xs:complexContent>
      <xs:extension base="sit:RoadSurfaceConditions">
         <xs:sequence>
            <xs:element name="nonWeatherRelatedRoadConditionType" type="sit:_NonWeatherRelatedRoadConditionTypeEnum"
            minOccurs="1" maxOccurs="unbounded"/>
            <xs:element name="_nonWeatherRelatedRoadConditionsExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

Complex Type: **Obstruction**

Super-types:	SituationRecord < TrafficElement (by extension) < **Obstruction** (by extension)
Sub-types:	• AnimalPresenceObstruction (by extension) • EnvironmentalObstruction (by extension) • GeneralObstruction (by extension) • VehicleObstruction (by extension)

Name	Obstruction
Abstract	yes
Documentation	Any stationary or moving obstacle of a physical nature (e.g. obstacles or vehicles from an earlier accident, shed loads on carriageway, rock fall, abnormal or dangerous loads, or animals etc.) which could disrupt or endanger traffic.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
   <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
   <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
   <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
   <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
   <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
   <sit:_obstructionExtension> com:_ExtensionType </sit:_obstructionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Obstruction" abstract="true">
   <xs:complexContent>
      <xs:extension base="sit:TrafficElement">
         <xs:sequence>
            <xs:element name="_obstructionExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

Complex Type: OperatorAction

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

Sub-types:	• NetworkManagement (by extension)
	    ○ GeneralInstructionOrMessageToRoadUsers (by extension)
	• Roadworks (by extension)
	    ○ MaintenanceWorks (by extension)

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:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
   <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
   <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
   <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
   <sit:_operatorActionExtension> com:_ExtensionType </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="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: PoorEnvironmentConditions

Super-types:	SituationRecord < TrafficElement (by extension) < Conditions (by extension) < **PoorEnvironmentConditions** (by extension)
Sub-types:	None

Name	PoorEnvironmentConditions
Abstract	no
Documentation	Any environmental conditions which may be affecting the driving conditions on the road.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
   <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
   <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
   <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
   <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
   <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
   <sit:_conditionsExtension> com:_ExtensionType </sit:_conditionsExtension> [0..1]
   <sit:poorEnvironmentType> sit:_PoorEnvironmentTypeEnum </sit:poorEnvironmentType> [1..*] ?
   <sit:_poorEnvironmentConditionsExtension> com:_ExtensionType </sit:_poorEnvironmentConditionsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PoorEnvironmentConditions">
   <xs:complexContent>
      <xs:extension base="sit:Conditions">
         <xs:sequence>
            <xs:element name="poorEnvironmentType" type="sit:_PoorEnvironmentTypeEnum" minOccurs="1"
            maxOccurs="unbounded"/>
            <xs:element name="_poorEnvironmentConditionsExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: RoadSurfaceConditions

Super-types:	SituationRecord < TrafficElement (by extension) < Conditions (by extension) < **RoadSurfaceConditions** (by extension)
Sub-types:	• NonWeatherRelatedRoadConditions (by extension)

- **WeatherRelatedRoadConditions** (by extension)

Name	RoadSurfaceConditions
Abstract	yes
Documentation	Conditions of the road surface which may affect driving conditions. These may be related to the weather (e.g. ice, snow etc.) or to other conditions (e.g. oil, mud, leaves etc. on the road)

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
   <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
   <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
   <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
   <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
   <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
   <sit:_conditionsExtension> com:_ExtensionType </sit:_conditionsExtension> [0..1]
   <sit:_roadSurfaceConditionsExtension> com:_ExtensionType </sit:_roadSurfaceConditionsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RoadSurfaceConditions" abstract="true">
   <xs:complexContent>
      <xs:extension base="sit:Conditions">
         <xs:sequence>
            <xs:element name="_roadSurfaceConditionsExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Roadworks

Super-types:	SituationRecord < OperatorAction (by extension) < **Roadworks** (by extension)
Sub-types:	• MaintenanceWorks (by extension)

Name	Roadworks
Abstract	yes
Documentation	Road maintenance, installation and construction activities, works in the road, or other construction or maintenance actions that may affect normal operation of a road.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
   <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
   <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
   <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
   <sit:validity> com:Validity </sit:validity> [1]
   <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
   <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
   <sit:_operatorActionExtension> com:_ExtensionType </sit:_operatorActionExtension> [0..1]
   <sit:maintenanceVehicles> sit:MaintenanceVehicles </sit:maintenanceVehicles> [0..1]
   <sit:_roadworksExtension> com:_ExtensionType </sit:_roadworksExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Roadworks" abstract="true">
   <xs:complexContent>
      <xs:extension base="sit:OperatorAction">
         <xs:sequence>
            <xs:element name="maintenanceVehicles" type="sit:MaintenanceVehicles" minOccurs="0"/>
            <xs:element name="_roadworksExtension" type="com:_ExtensionType" 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>
```

<div align="right">

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</div>

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>
```

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</div>

Complex Type: SituationRecord

Super-types:	None
Sub-types:	

- OperatorAction (by extension)
  - NetworkManagement (by extension)
    - GeneralInstructionOrMessageToRoadUsers (by extension)
  - Roadworks (by extension)
    - MaintenanceWorks (by extension)
- TrafficElement (by extension)
  - Accident (by extension)
  - Activity (by extension)
    - DisturbanceActivity (by extension)
  - Conditions (by extension)
    - PoorEnvironmentConditions (by extension)
    - RoadSurfaceConditions (by extension)
      - NonWeatherRelatedRoadConditions (by extension)
      - WeatherRelatedRoadConditions (by extension)
  - Obstruction (by extension)
    - AnimalPresenceObstruction (by extension)
    - EnvironmentalObstruction (by extension)
    - GeneralObstruction (by extension)
    - VehicleObstruction (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:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
    <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
    <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
    <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
    <sit:validity> com:Validity </sit:validity> [1]
    <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
    <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
```

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

Schema Component Representation

```xml
<xs:complexType name="SituationRecord" abstract="true">
  <xs:sequence>
    <xs:element name="situationRecordCreationTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="situationRecordVersionTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="probabilityOfOccurrence" type="sit:_ProbabilityOfOccurrenceEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="safetyRelatedMessage" type="com:Boolean" minOccurs="1" maxOccurs="1"/>
    <xs:element name="validity" type="com:Validity"/>
    <xs:element name="locationReference" type="loc:LocationReference"/>
    <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: TrafficElement

Super-types:	SituationRecord < **TrafficElement** (by extension)
Sub-types:	- Accident (by extension) - Activity (by extension) - DisturbanceActivity (by extension) - Conditions (by extension) - PoorEnvironmentConditions (by extension) - RoadSurfaceConditions (by extension) - NonWeatherRelatedRoadConditions (by extension) - WeatherRelatedRoadConditions (by extension) - Obstruction (by extension) - AnimalPresenceObstruction (by extension) - EnvironmentalObstruction (by extension) - GeneralObstruction (by extension) - VehicleObstruction (by extension)

Name	TrafficElement
Abstract	yes
Documentation	An event which is not planned by the traffic operator, which is affecting, or has the potential to affect traffic flow.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
    <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
    <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
    <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
    <sit:validity> com:Validity </sit:validity> [1]
    <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
    <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
    <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
    <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
</...>
```

Schema Component Representation

```xml
<xs:complexType name="TrafficElement" abstract="true">
  <xs:complexContent>
    <xs:extension base="sit:SituationRecord">
      <xs:sequence>
        <xs:element name="trafficConstrictionType" type="sit:_TrafficConstrictionTypeEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_trafficElementExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Complex Type: VehicleObstruction

Super-types:	SituationRecord < TrafficElement (by extension) < Obstruction (by extension) < **VehicleObstruction** (by extension)
Sub-types:	None

Name	VehicleObstruction
Abstract	no
Documentation	An obstruction on the road caused by one or more vehicles.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
    <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
    <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
    <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
    <sit:validity> com:Validity </sit:validity> [1]
    <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
```

```
    <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
    <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
    <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
    <sit:_obstructionExtension> com:_ExtensionType </sit:_obstructionExtension> [0..1]
    <sit:vehicleObstructionType> sit:_VehicleObstructionTypeEnum </sit:vehicleObstructionType> [1] ?
    <sit:_vehicleObstructionExtension> com:_ExtensionType </sit:_vehicleObstructionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VehicleObstruction">
  <xs:complexContent>
    <xs:extension base="sit:Obstruction">
      <xs:sequence>
        <xs:element name="vehicleObstructionType" type="sit:_VehicleObstructionTypeEnum" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="_vehicleObstructionExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: WeatherRelatedRoadConditions

Super-types:	SituationRecord < TrafficElement (by extension) < Conditions (by extension) < RoadSurfaceConditions (by extension) < **WeatherRelatedRoadConditions** (by extension)
Sub-types:	None

Name	WeatherRelatedRoadConditions
Abstract	no
Documentation	Road surface conditions that are related to the weather which may affect the driving conditions, such as ice, snow or water.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
    <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
    <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
    <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [1] ?
    <sit:validity> com:Validity </sit:validity> [1]
    <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
    <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
    <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [1] ?
    <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
    <sit:_conditionsExtension> com:_ExtensionType </sit:_conditionsExtension> [0..1]
    <sit:_roadSurfaceConditionsExtension> com:_ExtensionType </sit:_roadSurfaceConditionsExtension> [0..1]
    <sit:weatherRelatedRoadConditionType> com:_WeatherRelatedRoadConditionTypeEnum
    </sit:weatherRelatedRoadConditionType> [1..*] ?
    <sit:_weatherRelatedRoadConditionsExtension> com:_ExtensionType </sit:_weatherRelatedRoadConditionsExtension>
    [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="WeatherRelatedRoadConditions">
  <xs:complexContent>
    <xs:extension base="sit:RoadSurfaceConditions">
      <xs:sequence>
        <xs:element name="weatherRelatedRoadConditionType" type="com:_WeatherRelatedRoadConditionTypeEnum"
        minOccurs="1" maxOccurs="unbounded"/>
        <xs:element name="_weatherRelatedRoadConditionsExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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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>
```

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

Complex Type: _AnimalPresenceTypeEnum

Super-types:	<u>xs</u>:string < <u>AnimalPresenceTypeEnum</u> (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>
```

Complex Type: _ComplianceOptionEnum

Super-types:	<u>xs</u>:string < <u>ComplianceOptionEnum</u> (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>
```

Complex Type: _DisturbanceActivityTypeEnum

Super-types:	<u>xs</u>:string < <u>DisturbanceActivityTypeEnum</u> (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>
```

Complex Type: _EnvironmentalObstructionTypeEnum

Super-types:	<u>xs</u>:string < <u>EnvironmentalObstructionTypeEnum</u> (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>
```

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>
```

Complex Type: _MaintenanceVehicleActionsEnum

Super-types:	xs:string < MaintenanceVehicleActionsEnum (by restriction) < **_MaintenanceVehicleActionsEnum** (by extension)
Sub-types:	None

Name	_MaintenanceVehicleActionsEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

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: _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: _ProbabilityOfOccurrenceEnum

Super-types:	xs:string < ProbabilityOfOccurrenceEnum (by restriction) < _ProbabilityOfOccurrenceEnum (by extension)
Sub-types:	None

Name   _ProbabilityOfOccurrenceEnum

Abstract   no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_ProbabilityOfOccurrenceEnum">
  <xs:simpleContent>
    <xs:extension base="sit:ProbabilityOfOccurrenceEnum">
      <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>
```

Complex Type: _TrafficConstrictionTypeEnum

Super-types:	xs:string < TrafficConstrictionTypeEnum (by restriction) < **_TrafficConstrictionTypeEnum** (by extension)
Sub-types:	None

Name _TrafficConstrictionTypeEnum

Abstract no

XML Instance Representation

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

Schema Component Representation

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

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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'|'doNotAllow...

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

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>
```

Simple Type: MaintenanceVehicleActionsEnum

Super-types:	xs:string < **MaintenanceVehicleActionsEnum** (by restriction)
Sub-types:	• _MaintenanceVehicleActionsEnum (by extension)

Name   MaintenanceVehicleActionsEnum

Content
- Base XSD Type: string
- *value* comes from list:
  {'maintenanceAction'|'maintenanceVehiclesMergingIntoTrafficFlow'|'slowMoving'|'stoppingToServiceEquipments'|'_extended'}

Documentation   Types of maintenance vehicle actions associated with roadworks.

Schema Component Representation

```
<xs:simpleType name="MaintenanceVehicleActionsEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="maintenanceAction"/>
      <xs:enumeration value="maintenanceVehiclesMergingIntoTrafficFlow"/>
      <xs:enumeration value="slowMoving"/>
      <xs:enumeration value="stoppingToServiceEquipments"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

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

```xml
<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>
```

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

```xml
<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>
```

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'|'fr

Documentation Types of poor environmental conditions.

Schema Component Representation

```xml
<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>
```

Simple Type: ProbabilityOfOccurrenceEnum

Super-types:	xs:string < **ProbabilityOfOccurrenceEnum** (by restriction)
Sub-types:	• _ProbabilityOfOccurrenceEnum (by extension)

Name	ProbabilityOfOccurrenceEnum
Content	• Base XSD Type: string
	• *value* comes from list: {'certain'|'probable'|'riskOf'|'_extended'}
Documentation	Levels of confidence that the sender has in the information, ordered {certain, probable, risk of}.

Schema Component Representation

```
<xs:simpleType name="ProbabilityOfOccurrenceEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="certain"/>
    <xs:enumeration value="probable"/>
    <xs:enumeration value="riskOf"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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'|'maintenancePe
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: TrafficConstrictionTypeEnum

Super-types:	xs:string < **TrafficConstrictionTypeEnum** (by restriction)
Sub-types:	• _ TrafficConstrictionTypeEnum (by extension)

Name TrafficConstrictionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'carriagewayBlocked'|'carriagewayPartiallyObstructed'|'lanesBlocked'|'lanesPartiallyObstructed'|'roadBlocked'|'roadPartiallyObstructed'|'_extended'}

Documentation Types of constriction to which traffic is subjected as a result of an event.

Schema Component Representation

```
<xs:simpleType name="TrafficConstrictionTypeEnum">
    <xs:restriction base="xs:string">
        <xs:enumeration value="carriagewayBlocked"/>
        <xs:enumeration value="carriagewayPartiallyObstructed"/>
        <xs:enumeration value="lanesBlocked"/>
        <xs:enumeration value="lanesPartiallyObstructed"/>
        <xs:enumeration value="roadBlocked"/>
        <xs:enumeration value="roadPartiallyObstructed"/>
        <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'|'highSpeedE

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"/>
```

```xml
      <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>
```