

Realis ITS

Version 14.12.2022

# DatexII 3.3 profile realisevents-3.0

# DATEXII\_3\_Common

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## Schema Document Properties

<b>Target Namespace</b>	<a href="http://datex2.eu/schema/3/common">http://datex2.eu/schema/3/common</a>
<b>Version</b>	3.3
<b>Element and Attribute Namespaces</b>	

- 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	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
xs	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
com	<a href="http://datex2.eu/schema/3/common">http://datex2.eu/schema/3/common</a>

### 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: **HeaderInformation**

<b>Super-types:</b>	None
<b>Sub-types:</b>	None

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

### XML Instance Representation

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

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

#### Schema Component Representation

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

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### Complex Type: InternationalIdentifier

Super-types:	None
Sub-types:	None

<b>Name</b>	InternationalIdentifier
<b>Abstract</b>	no
<b>Documentation</b>	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>
```

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### Complex Type: MultilingualString

Super-types:	None
Sub-types:	None

<b>Name</b>	MultilingualString
<b>Abstract</b>	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>
```

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### Complex Type: MultilingualStringValue

Super-types:	xs:string < <a href="#">MultilingualStringValueType</a> (by restriction) < <a href="#">MultilingualStringValue</a> (by extension)
Sub-types:	None

<b>Name</b>	MultilingualStringValue
<b>Abstract</b>	no

#### XML Instance Representation

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

## Schema Component Representation

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

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## Complex Type: OverallPeriod

Super-types:	None
Sub-types:	None

<b>Name</b>	OverallPeriod
<b>Abstract</b>	no
<b>Documentation</b>	A continuous or discontinuous period of validity defined by overall bounding start and end times and the possible intersection of valid periods (potentially recurring) with the complement of exception periods (also potentially recurring).

### XML Instance Representation

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

## Schema Component Representation

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

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## Complex Type: PayloadPublication

Super-types:	None
Sub-types:	None

<b>Name</b>	PayloadPublication
<b>Abstract</b>	yes
<b>Documentation</b>	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>
```

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## Complex Type: Validity

Super-types:	None
Sub-types:	None

<b>Name</b>	Validity
<b>Abstract</b>	no

**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**

```
<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>
```

[top](#)**Complex Type: VehicleCharacteristics**

Super-types: None  
Sub-types: None

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

**XML Instance Representation**

```
<...>
  <com:vehicleType> com: VehicleTypeEnum </com:vehicleType> [0..*] ?
  <com:_vehicleCharacteristicsExtension> com: ExtensionType </com:_vehicleCharacteristicsExtension> [0..1]
</...>
```

**Schema Component Representation**

```
<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>
```

[top](#)**Complex Type: \_ConfidentialityValueEnum**

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

**Name** \_ConfidentialityValueEnum  
**Abstract** no

**XML Instance Representation**

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

**Schema Component Representation**

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

[top](#)**Complex Type: \_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: **\_InformationDeliveryServicesEnum**

Super-types: [xs:string](#) < [InformationDeliveryServicesEnum](#) (by restriction) < [\\_InformationDeliveryServicesEnum](#) (by extension)  
 Sub-types: None

Name [\\_InformationDeliveryServicesEnum](#)  
 Abstract no

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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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>

```

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### Complex Type: **\_PublicEventTypeEnum**

Super-types: [xs:string](#) < [PublicEventTypeEnum](#) (by restriction) < [\\_PublicEventTypeEnum](#) (by extension)  
 Sub-types: None

Name [\\_PublicEventTypeEnum](#)  
 Abstract no

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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### 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>
```

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### Complex Type: [\\_VehicleTypeEnum](#)

Super-types: [xs:string](#) < [VehicleTypeEnum](#) (by restriction) < [\\_VehicleTypeEnum](#) (by extension)  
Sub-types: None

Name [\\_VehicleTypeEnum](#)  
Abstract no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: [\\_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>
```

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### Complex Type: [\\_WinterEquipmentManagementTypeEnum](#)

Super-types: [xs:string](#) < [WinterEquipmentManagementTypeEnum](#) (by restriction) < [\\_WinterEquipmentManagementTypeEnum](#) (by extension)  
Sub-types: None

Name [\\_WinterEquipmentManagementTypeEnum](#)  
Abstract no

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Simple Type: AngleInDegrees

**Super-types:** [xs:nonNegativeInteger](#) < [NonNegativeInteger](#) (by restriction) < **AngleInDegrees** (by restriction)

**Sub-types:** None

**Name** AngleInDegrees

**Content**

- Base XSD Type: nonNegativeInteger
- $0 \leq \text{value} \leq 359$

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

#### Schema Component Representation

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

[top](#)

### Simple Type: Boolean

**Super-types:** [xs:boolean](#) < **Boolean** (by restriction)

**Sub-types:** None

**Name** Boolean

**Content**

- Base XSD Type: boolean

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

#### Schema Component Representation

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

[top](#)

### Simple Type: ConfidentialityValueEnum

**Super-types:** [xs:string](#) < **ConfidentialityValueEnum** (by restriction)

**Sub-types:**

- [\\_ConfidentialityValueEnum](#) (by extension)

**Name** ConfidentialityValueEnum

**Content**

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

**Documentation** Values of confidentiality.

#### Schema Component Representation

```
<xs:simpleType name="ConfidentialityValueEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="internalUse"/>
    <xs:enumeration value="noRestriction"/>
    <xs:enumeration value="restrictedToAuthorities"/>
    <xs:enumeration value="restrictedToAuthoritiesAndTrafficOperators"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

### Simple Type: CountryCode

**Super-types:** [xs:string](#) < [String](#) (by restriction) < **CountryCode** (by restriction)



Sub-types: None

Name CountryCode

Content

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

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

#### Schema Component Representation

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

[top](#)

## Simple Type: DateTime

Super-types: [xs:dateTime](#) < **DateTime** (by restriction)

Sub-types: None

Name DateTime

Content

- Base XSD Type: dateTime

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

#### Schema Component Representation

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

[top](#)

## Simple Type: Float

Super-types: [xs:float](#) < **Float** (by restriction)

Sub-types:

- [KilometresPerHour](#) (by restriction)
- [MetresAsFloat](#) (by restriction)
- [Percentage](#) (by restriction)
- [Seconds](#) (by restriction)

Name Float

Content

- Base XSD Type: float

Documentation A floating point number whose value space consists of the values  $m \times 2^e$ , 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>
```

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## Simple Type: InformationDeliveryServicesEnum

Super-types: [xs:string](#) < **InformationDeliveryServicesEnum** (by restriction)

Sub-types:

- [\\_InformationDeliveryServicesEnum](#) (by extension)

Name InformationDeliveryServicesEnum

Content

- Base XSD Type: string
- *value* comes from list: {'anyGeneralDeliveryService'|'safetyServices'|'vms'|'\_extended'}

Documentation List of service channels or devices on which information or data exchanged can be delivered.

#### Schema Component Representation

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

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## 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>
```

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## Simple Type: KilometresPerHour

Super-types: [xs:float](#) < [Float](#) (by restriction) < **KilometresPerHour** (by restriction)

Sub-types: None

Name KilometresPerHour

Content 

- Base XSD Type: float

Documentation A measure of speed defined in kilometres per hour.

### Schema Component Representation

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

[top](#)

## Simple Type: Language

Super-types: [xs:language](#) < **Language** (by restriction)

Sub-types: None

Name Language

Content 

- Base XSD Type: language

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

### Schema Component Representation

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

[top](#)

## Simple Type: LongString

Super-types: [xs:string](#) < **LongString** (by restriction)

Sub-types: None

Name LongString

Content 

- Base XSD Type: string

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

### Schema Component Representation

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

[top](#)

## Simple Type: 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>
```

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### 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>
```

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### Simple Type: MultilingualStringValue

Super-types: [xs:string](#) < **MultilingualStringValue** (by restriction)  
Sub-types:

- [MultilingualStringValue](#) (by extension)

**Name** MultilingualStringValue  
**Content**

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

#### Schema Component Representation

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

[top](#)

### Simple Type: NonNegativeInteger

Super-types: [xs:nonNegativeInteger](#) < **NonNegativeInteger** (by restriction)  
Sub-types:

- [AngleInDegrees](#) (by restriction)
- [MetresAsNonNegativeInteger](#) (by restriction)

**Name** NonNegativeInteger  
**Content**

- Base XSD Type: nonNegativeInteger

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

#### Schema Component Representation

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

[top](#)

### Simple Type: Percentage

Super-types: [xs:float](#) < [Float](#) (by restriction) < **Percentage** (by restriction)  
Sub-types: None

**Name** Percentage  
**Content**

- Base XSD Type: float

**Documentation** A measure of percentage.

#### Schema Component Representation

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

[top](#)

## Simple Type: PublicEventTypeEnum

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

Sub-types:

- [\\_PublicEventTypeEnum](#) (by extension)

Name PublicEventTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'majorEvent'|'other'|'\_extended'}

Documentation Types of public events.

### Schema Component Representation

```
<xs:simpleType name="PublicEventTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="majorEvent"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

## Simple Type: Seconds

Super-types: [xs:float](#) < [Float](#) (by restriction) < **Seconds** (by restriction)

Sub-types: None

Name Seconds

Content

- Base XSD Type: float

Documentation Seconds.

### Schema Component Representation

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

[top](#)

## Simple Type: String

Super-types: [xs:string](#) < **String** (by restriction)

Sub-types:

- [CountryCode](#) (by restriction)

Name String

Content

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

Documentation A character string whose value space is the set of finite-length sequences of characters. Every character has a corresponding Universal Character Set code point (as defined in ISO/IEC 10646), which is an integer.

### Schema Component Representation

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

[top](#)

## Simple Type: 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'|'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="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: {'lorry'|'other'|'\_extended'}

Documentation Types of vehicle.

### Schema Component Representation

```

<xs:simpleType name="VehicleTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="lorry"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: WeatherRelatedRoadConditionTypeEnum

Super-types: [xs:string](#) < **WeatherRelatedRoadConditionTypeEnum** (by restriction)

Sub-types:

- [\\_WeatherRelatedRoadConditionTypeEnum](#) (by extension)

Name WeatherRelatedRoadConditionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'blackIce'|'dry'|'freezingOfWetRoads'|'freezingRain'|'freshSnow'|'ice'|'iceBuildUp'|'iceWithWheelBarTracks'|'icyPatches'|'looseSnow'|'normalWinterCor'}

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="dry"/>
    <xs:enumeration value="freezingOfWetRoads"/>
    <xs:enumeration value="freezingRain"/>
    <xs:enumeration value="freshSnow"/>
    <xs:enumeration value="ice"/>
    <xs:enumeration value="iceBuildUp"/>
    <xs:enumeration value="iceWithWheelBarTracks"/>
    <xs:enumeration value="icyPatches"/>
    <xs:enumeration value="looseSnow"/>
    <xs:enumeration value="normalWinterConditionsForPedestrians"/>
    <xs:enumeration value="packedSnow"/>
    <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="wetIcyPavement"/>
    <xs:enumeration value="surfaceWater"/>
    <xs:enumeration value="wet"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

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## Simple Type: WinterEquipmentManagementTypeEnum

Super-types: [xs:string](#) < **WinterEquipmentManagementTypeEnum** (by restriction)

Sub-types:

- [\\_WinterEquipmentManagementTypeEnum](#) (by extension)

Name WinterEquipmentManagementTypeEnum

Content

- Base XSD Type: string

- *value* comes from list:  
{'useSnowChains'|'useSnowChainsOrTyres'|'useSnowTyres'|'winterEquipmentOnBoardRequired'|'other'|'\_extended'}

## Documentation

Instructions relating to the use of winter equipment.

## Schema Component Representation

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

[top](#)

## Simple Type: **\_VehicleTypeEnumExtensionType**

*Super-types:* [xs:string](#) < **\_VehicleTypeEnumExtensionType** (by restriction)

*Sub-types:* None

**Name** **\_VehicleTypeEnumExtensionType**

**Content**

- Base XSD Type: string

## Schema Component Representation

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

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# DATEXII\_3\_D2Payload

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## Schema Document Properties

<b>Target Namespace</b>	<a href="http://datex2.eu/schema/3/d2Payload">http://datex2.eu/schema/3/d2Payload</a>
<b>Version</b>	3.3
<b>Element and Attribute Namespaces</b>	<ul style="list-style-type: none"><li>• Global element and attribute declarations belong to this schema's target namespace.</li><li>• By default, local element declarations belong to this schema's target namespace.</li><li>• By default, local attribute declarations have no namespace.</li></ul>
<b>Schema Composition</b>	<ul style="list-style-type: none"><li>• This schema imports schema(s) from the following namespace(s):<ul style="list-style-type: none"><li>◦ <a href="http://datex2.eu/schema/3/situation">http://datex2.eu/schema/3/situation</a> (at DATEXII_3_Situation.xsd)</li><li>◦ <a href="http://datex2.eu/schema/3/locationReferencing">http://datex2.eu/schema/3/locationReferencing</a> (at DATEXII_3_LocationReferencing.xsd)</li><li>◦ <a href="http://datex2.eu/schema/3/common">http://datex2.eu/schema/3/common</a> (at DATEXII_3_Common.xsd)</li></ul></li></ul>

## Declared Namespaces

Prefix	Namespace
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
xs	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
sit	<a href="http://datex2.eu/schema/3/situation">http://datex2.eu/schema/3/situation</a>
loc	<a href="http://datex2.eu/schema/3/locationReferencing">http://datex2.eu/schema/3/locationReferencing</a>
com	<a href="http://datex2.eu/schema/3/common">http://datex2.eu/schema/3/common</a>
d2	<a href="http://datex2.eu/schema/3/d2Payload">http://datex2.eu/schema/3/d2Payload</a>

## Schema Component Representation

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

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## Global Declarations

Element: **payload**

<b>Name</b>	payload
<b>Type</b>	<a href="#">com:PayloadPublication</a>
<b><u>Nillable</u></b>	no
<b><u>Abstract</u></b>	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

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  - [Complex Type: OpenlrPathAttributes](#)
  - [Complex Type: OpenlrPoiWithAccessPoint](#)
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  - [Complex Type: PercentageDistanceAlongLinearElement](#)
  - [Complex Type: PointAlongLinearElement](#)
  - [Complex Type: PointByCoordinates](#)
  - [Complex Type: PointCoordinates](#)
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  - [Complex Type: PositionConfidenceEllipse](#)
  - [Complex Type: Referent](#)
  - [Complex Type: SingleRoadLinearLocation](#)
  - [Complex Type: SupplementaryPositionalDescription](#)
  - [Complex Type: AlertCDirectionEnum](#)
  - [Complex Type: AltitudeAccuracyEnum](#)
  - [Complex Type: CarriagewayEnum](#)
  - [Complex Type: DirectionEnum](#)
  - [Complex Type: HeightGradeEnum](#)
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  - [Complex Type: OpenlrFormOfWayEnum](#)
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  - [Complex Type: OpenlrOrientationEnum](#)
  - [Complex Type: OpenlrSideOfRoadEnum](#)
  - [Complex Type: PositionConfidenceCodedErrorEnum](#)
  - [Complex Type: ReferentTypeEnum](#)
  - [Simple Type: AlertCDirectionEnum](#)
  - [Simple Type: AlertCLocationCode](#)
  - [Simple Type: AltitudeAccuracyEnum](#)
  - [Simple Type: CarriagewayEnum](#)
  - [Simple Type: DirectionEnum](#)
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  - [Simple Type: OpenlrFormOfWayEnum](#)
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  - [Simple Type: OpenlrOrientationEnum](#)
  - [Simple Type: OpenlrSideOfRoadEnum](#)
  - [Simple Type: PositionConfidenceCodedErrorEnum](#)
  - [Simple Type: ReferentTypeEnum](#)

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## Schema Document Properties

<b>Target Namespace</b>	<a href="http://datex2.eu/schema/3/locationReferencing">http://datex2.eu/schema/3/locationReferencing</a>
<b>Version</b>	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	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
xs	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
com	<a href="http://datex2.eu/schema/3/common">http://datex2.eu/schema/3/common</a>
loc	<a href="http://datex2.eu/schema/3/locationReferencing">http://datex2.eu/schema/3/locationReferencing</a>

### 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>
```

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## Global Definitions

### Complex Type: AlertCDirection

Super-types:	None
Sub-types:	None

Name	AlertCDirection
<b>Abstract</b>	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>
```

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### Complex Type: AlertCLinear

Super-types:	None
Sub-types:	

- [AlertCLinearByCode](#) (by extension)
- [AlertCMethod2Linear](#) (by extension)
- [AlertCMethod4Linear](#) (by extension)

Name	AlertCLinear
<b>Abstract</b>	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

```
<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

```
<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

```

<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>

```

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### Complex Type: AlertCMethod2Point

Super-types:	<a href="#">AlertCPoint</a> < AlertCMethod2Point (by extension)
Sub-types:	None

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

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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### Complex Type: AlertCMethod2PrimaryPointLocation

Super-types:	None
Sub-types:	None

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

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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### 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>
```

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### 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:alertCDirection> loc:AlertCDirection </loc:alertCDirection> [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="alertCDirection" type="loc:AlertCDirection"/>  
        <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>
```

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### 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>

```

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### 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>

```

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### 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:alertCLocation> loc:AlertCLocation </loc:alertCLocation> [1]
  <loc:offsetDistance> loc:OffsetDistance </loc:offsetDistance> [1]
  <loc:_alertCMethod4SecondaryPointLocationExtension> com:ExtensionType
</loc:_alertCMethod4SecondaryPointLocationExtension> [0..1]
</...>

```

#### Schema Component Representation

```

<xs:complexType name="AlertCMethod4SecondaryPointLocation">
  <xs:sequence>
    <xs:element name="alertCLocation" type="loc:AlertCLocation"/>
    <xs:element name="offsetDistance" type="loc:OffsetDistance"/>
    <xs:element name="_alertCMethod4SecondaryPointLocationExtension" type="com:ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

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### 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>

```

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### Complex Type: **AltitudeConfidence**

Super-types:	None
Sub-types:	None

<b>Name</b>	AltitudeConfidence
<b>Abstract</b>	no
<b>Documentation</b>	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>

```

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### Complex Type: **Carriageway**

Super-types:	None
Sub-types:	None

<b>Name</b>	Carriageway
<b>Abstract</b>	no
<b>Documentation</b>	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:	<ul style="list-style-type: none"> <li>• <a href="#">DistanceFromLinearElementReferent</a> (by extension)</li> <li>• <a href="#">DistanceFromLinearElementStart</a> (by extension)</li> <li>• <a href="#">PercentageDistanceAlongLinearElement</a> (by extension)</li> </ul>

<b>Name</b>	DistanceAlongLinearElement
<b>Abstract</b>	yes
<b>Documentation</b>	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>
```

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### 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:_distanceFromLinearElementReferentReferentExtension> com:_ExtensionType  
</loc:_distanceFromLinearElementReferentReferentExtension> [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="_distanceFromLinearElementReferentReferentExtension" type="com:_ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

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### 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>
```

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### Complex Type: GmlLineString

Super-types: None



Sub-types:

- [GmlLinearRing](#) (by extension)

<b>Name</b>	GmlLineString
<b>Abstract</b>	no
<b>Documentation</b>	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>
```

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## Complex Type: GmlLinearRing

Super-types: [GmlLineString](#) < [GmlLinearRing](#) (by extension)

Sub-types: None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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## Complex Type: HeightCoordinate

Super-types: None

Sub-types: None

<b>Name</b>	HeightCoordinate
<b>Abstract</b>	no
<b>Documentation</b>	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>
```

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## 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>
```

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## 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:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [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:secondarySupplementaryDescription> loc:SupplementaryPositionalDescription
  </loc:secondarySupplementaryDescription> [0..1] ?
  <loc:_linearLocationExtension> com:ExtensionType </loc:_linearLocationExtension> [0..1]
</...>
```

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

#### Schema Component Representation

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

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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>
```

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#### 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:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [0..1] ?
  <loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
</...>
```

#### Schema Component Representation

```
<xs:complexType name="Location" abstract="true">
  <xs:complexContent>
    <xs:extension base="loc:LocationReference">
      <xs:sequence>
        <xs:element name="coordinatesForDisplay" type="loc:PointCoordinates" minOccurs="0"/>
        <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:	<ul style="list-style-type: none"> <li>• <a href="#">Location</a> (by extension) <ul style="list-style-type: none"> <li>◦ <a href="#">NetworkLocation</a> (by extension) <ul style="list-style-type: none"> <li>▪ <a href="#">LinearLocation</a> (by extension) <ul style="list-style-type: none"> <li>▪ <a href="#">SingleRoadLinearLocation</a> (by extension)</li> </ul> </li> <li>▪ <a href="#">PointLocation</a> (by extension)</li> </ul> </li> </ul> </li> </ul>

<b>Name</b>	LocationReference
<b>Abstract</b>	yes
<b>Documentation</b>	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:	<a href="#">LocationReference</a> < <a href="#">Location</a> (by extension) < <a href="#">NetworkLocation</a> (by extension)
Sub-types:	<ul style="list-style-type: none"> <li>• <a href="#">LinearLocation</a> (by extension) <ul style="list-style-type: none"> <li>◦ <a href="#">SingleRoadLinearLocation</a> (by extension)</li> </ul> </li> <li>• <a href="#">PointLocation</a> (by extension)</li> </ul>

<b>Name</b>	NetworkLocation
<b>Abstract</b>	yes
<b>Documentation</b>	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:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [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

<b>Name</b>	OffsetDistance
<b>Abstract</b>	no
<b>Documentation</b>	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>

```

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## 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>

```

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## 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>

```

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## 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>
```

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## 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>
```

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## 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>
```

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## 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>
```

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### Complex Type: OpenlrLinear

Super-types: None  
Sub-types: None

**Name** OpenlrLinear  
**Abstract** no  
**Documentation** OpenLR line location reference

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: OpenlrLocationReferencePoint

Super-types: [OpenlrBaseReferencePoint](#) < OpenlrLocationReferencePoint (by extension)  
Sub-types: None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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## Complex Type: OpenlrOffsets

Super-types:	None
Sub-types:	None

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

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: OpenlrPathAttributes

Super-types:	None
Sub-types:	None

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

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: OpenlrPoiWithAccessPoint

Super-types:	<a href="#">OpenlrPointLocationReference</a> < <a href="#">OpenlrBasePointLocation</a> (by extension) < <b>OpenlrPoiWithAccessPoint</b> (by extension)
Sub-types:	None

<b>Name</b>	OpenlrPoiWithAccessPoint
<b>Abstract</b>	no
<b>Documentation</b>	A point of interest (POI) along a line with access is a point location which is defined by a linear reference path, an offset value (defining the access point) from the starting node of this path and a coordinate pair that defines the POI itself.

### XML Instance Representation

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

### Schema Component Representation

```
<xs:complexType name="OpenlrPoiWithAccessPoint">
  <xs:complexContent>
```

```

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

```

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## Complex Type: **OpenlrPointAlongLine**

Super-types: [OpenlrPointLocationReference](#) < [OpenlrBasePointLocation](#) (by extension) < **OpenlrPointAlongLine** (by extension)  
 Sub-types: None

**Name** OpenlrPointAlongLine  
**Abstract** no  
**Documentation** Point along a line

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

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## Complex Type: **OpenlrPointLocationReference**

Super-types: None  
 Sub-types:
 

- [OpenlrBasePointLocation](#) (by extension)
  - [OpenlrPointAlongLine](#) (by extension)
  - [OpenlrPoiWithAccessPoint](#) (by extension)
- [OpenlrGeoCoordinate](#) (by extension)

**Name** OpenlrPointLocationReference  
**Abstract** yes  
**Documentation** A point location is a zero-dimensional element in a map that specifies a geometric location.

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

[top](#)

## Complex Type: **PercentageDistanceAlongLinearElement**

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

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

### XML Instance Representation

```

<...>
  <loc:distanceAlongLinearElementExtension> com:ExtensionType </loc:distanceAlongLinearElementExtension> [0..1]
  <loc:percentageDistanceAlong> com:Percentage </loc:percentageDistanceAlong> [1] ?
  <loc:percentageDistanceAlongLinearElementExtension> com:ExtensionType
  </loc:percentageDistanceAlongLinearElementExtension> [0..1]
</...>

```

#### Schema Component Representation

```

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

```

[top](#)

### Complex Type: PointAlongLinearElement

Super-types:	None
Sub-types:	None

**Name** PointAlongLinearElement

**Abstract** no

**Documentation** A point on a linear element where the linear element is either a part of or the whole of a linear object (i.e. a road), consistent with EN ISO 19148 definitions.

#### XML Instance Representation

```

<...>
  <loc:administrativeAreaOfPoint> com:MultilingualString </loc:administrativeAreaOfPoint> [0..1] ?
  <loc:directionAtPoint> loc:DirectionEnum </loc:directionAtPoint> [0..1] ?
  <loc:directionRelativeAtPoint> loc:LinearDirectionEnum </loc:directionRelativeAtPoint> [0..1] ?
  <loc:heightGradeOfPoint> loc:HeightGradeEnum </loc:heightGradeOfPoint> [0..1] ?
  <loc:linearElement> loc:LinearElement </loc:linearElement> [1]
  <loc:distanceAlongLinearElement> loc:DistanceAlongLinearElement </loc:distanceAlongLinearElement> [1]
  <loc:_pointAlongLinearElementExtension> com:ExtensionType </loc:_pointAlongLinearElementExtension> [0..1]
</...>

```

#### Schema Component Representation

```

<xs:complexType name="PointAlongLinearElement">
  <xs:sequence>
    <xs:element name="administrativeAreaOfPoint" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="directionAtPoint" type="loc:DirectionEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="directionRelativeAtPoint" type="loc:LinearDirectionEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="heightGradeOfPoint" type="loc:HeightGradeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="linearElement" type="loc:LinearElement"/>
    <xs:element name="distanceAlongLinearElement" type="loc:DistanceAlongLinearElement"/>
    <xs:element name="_pointAlongLinearElementExtension" type="com:ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

[top](#)

### Complex Type: PointByCoordinates

Super-types:	None
Sub-types:	None

**Name** PointByCoordinates

**Abstract** no

**Documentation** A single point defined only by a coordinate set with an optional bearing direction.

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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### Complex Type: PointCoordinates

Super-types:	None
--------------	------

Sub-types:	None
------------	------

<b>Name</b>	PointCoordinates
<b>Abstract</b>	no
<b>Documentation</b>	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>
```

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### Complex Type: PointLocation

Super-types:	<a href="#">LocationReference</a> < <a href="#">Location</a> (by extension) < <a href="#">NetworkLocation</a> (by extension) < <a href="#">PointLocation</a> (by extension)
Sub-types:	None

<b>Name</b>	PointLocation
<b>Abstract</b>	no
<b>Documentation</b>	Location representing a single geospatial point.

#### XML Instance Representation

```
<...>
<loc:_locationReferenceExtension> com:_ExtensionType </loc:_locationReferenceExtension> [0..1]
<loc:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [0..1] ?
<loc:locationExtension> com:_ExtensionType </loc:locationExtension> [0..1]
<loc:supplementaryPositionalDescription> loc:SupplementaryPositionalDescription
</loc:supplementaryPositionalDescription> [0..1]
<loc: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

<b>Name</b>	PositionAccuracy
<b>Abstract</b>	no
<b>Documentation</b>	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

<b>Name</b>	PositionConfidenceEllipse
<b>Abstract</b>	no
<b>Documentation</b>	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>
```

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### Complex Type: Referent

Super-types:	None
Sub-types:	None

<b>Name</b>	Referent
<b>Abstract</b>	no
<b>Documentation</b>	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>
```

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## 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:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [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:secondarySupplementaryDescription> loc:SupplementaryPositionalDescription
</loc:secondarySupplementaryDescription> [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:locationDescription> com:MultilingualString </loc:locationDescription> [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="locationDescription" type="com:MultilingualString" 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>
```

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## Complex Type: **\_AlertCDirectionEnum**

Super-types: [xs:string](#) < [\\_AlertCDirectionEnum](#) (by restriction) < [\\_AlertCDirectionEnum](#) (by extension)

Sub-types: None

**Name** \_AlertCDirectionEnum  
**Abstract** no

### XML Instance Representation

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

```
loc:AlertCDirectionEnum
</...>
```

#### Schema Component Representation

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

[top](#)

### Complex Type: AltitudeAccuracyEnum

Super-types: [xs:string](#) < [AltitudeAccuracyEnum](#) (by restriction) < [\\_AltitudeAccuracyEnum](#) (by extension)  
Sub-types: None

Name [\\_AltitudeAccuracyEnum](#)  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: CarriagewayEnum

Super-types: [xs:string](#) < [CarriagewayEnum](#) (by restriction) < [\\_CarriagewayEnum](#) (by extension)  
Sub-types: None

Name [\\_CarriagewayEnum](#)  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: DirectionEnum

Super-types: [xs:string](#) < [DirectionEnum](#) (by restriction) < [\\_DirectionEnum](#) (by extension)  
Sub-types: None

Name [\\_DirectionEnum](#)  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

**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>
```

**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>
```

**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>
```

[top](#)**Complex Type: OpenlrFormOfWayEnum**

Super-types: [xs:string](#) < [OpenlrFormOfWayEnum](#) (by restriction) < [\\_OpenlrFormOfWayEnum](#) (by extension)

Sub-types: None

Name [\\_OpenlrFormOfWayEnum](#)

**Abstract** no

**XML Instance Representation**

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

**Schema Component Representation**

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

```

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

```

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### 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>

```

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### 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>

```

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### Complex Type: **\_OpenlrSideOfRoadEnum**

Super-types: [xs:string](#) < [OpenlrSideOfRoadEnum](#) (by restriction) < [\\_OpenlrSideOfRoadEnum](#) (by extension)  
 Sub-types: None

Name [\\_OpenlrSideOfRoadEnum](#)  
 Abstract no

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

<xs:complexType name="_OpenlrSideOfRoadEnum">
  <xs:simpleContent>
    <xs:extension base="loc:OpenlrSideOfRoadEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

```

[top](#)

### Complex Type: **\_PositionConfidenceCodedErrorEnum**

Super-types: [xs:string](#) < [PositionConfidenceCodedErrorEnum](#) (by restriction) < [\\_PositionConfidenceCodedErrorEnum](#) (by extension)  
Sub-types: None

Name [\\_PositionConfidenceCodedErrorEnum](#)  
Abstract no

#### XML Instance Representation

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

#### Schema Component Representation

```
<xs:complexType name="\_PositionConfidenceCodedErrorEnum">  
  <xs:simpleContent>  
    <xs:extension base="loc:PositionConfidenceCodedErrorEnum">  
      <xs:attribute name="_extendedValue" type="xs:string"/>  
    </xs:extension>  
  </xs:simpleContent>  
</xs:complexType>
```

[top](#)

### Complex Type: [\\_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>
```

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### Simple Type: [AlertCDirectionEnum](#)

Super-types: [xs:string](#) < [AlertCDirectionEnum](#) (by restriction)  
Sub-types: 

- [\\_AlertCDirectionEnum](#) (by extension)

Name [AlertCDirectionEnum](#)  
Content

- Base XSD Type: string
- value comes from list: {'negative'|'positive'|'\_extended'}

Documentation Direction used to reach the primary location from the secondary location in ALERT-C location table, as defined in CEN ISO 14819-1

#### Schema Component Representation

```
<xs:simpleType name="AlertCDirectionEnum">  
  <xs:restriction base="xs:string">  
    <xs:enumeration value="negative"/>  
    <xs:enumeration value="positive"/>  
    <xs:enumeration value="_extended"/>  
  </xs:restriction>  
</xs:simpleType>
```

[top](#)

### Simple Type: [AlertCLocationCode](#)

Super-types: [com:NonNegativeInteger](#) < [AlertCLocationCode](#) (by restriction)  
Sub-types: None

Name [AlertCLocationCode](#)  
Content

- 'NonNegativeInteger' super type was not found in this schema. Its facets could not be printed out.
- 1 <= value <= 63487

Documentation A positive integer number (between 1 and 63 487) which uniquely identifies a pre-defined Alert C location

defined within an Alert-C table.

#### Schema Component Representation

```
<xs:simpleType name="AlertCLocationCode">
  <xs:restriction base="com:NonNegativeInteger">
    <xs:minInclusive value="1"/>
    <xs:maxInclusive value="63487"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

#### Simple Type: AltitudeAccuracyEnum

Super-types: [xs:string](#) < **AltitudeAccuracyEnum** (by restriction)

Sub-types: [\\_AltitudeAccuracyEnum](#) (by extension)

Name AltitudeAccuracyEnum

#### Content

- Base XSD Type: string
- *value* comes from list: {equalToOrLessThan1Centimetre|equalToOrLessThan2Centimetres|equalToOrLessThan5Centimetres|equalToOrLessThan10Centimetres|equalToOrLessThan20Centimetres|equalToOrLessThan50Centimetres|equalToOrLessThan1Metre|equalToOrLessThan2Metres|equalToOrLessThan5Metres|equalToOrLessThan10Metres|equalToOrLessThan20Metres|equalToOrLessThan50Metres|equalToOrLessThan100Metres|equalToOrLessThan200Metres|\_extended}

Documentation Coded level of vertical accuracy

#### Schema Component Representation

```
<xs:simpleType name="AltitudeAccuracyEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="equalToOrLessThan1Centimetre"/>
    <xs:enumeration value="equalToOrLessThan2Centimetres"/>
    <xs:enumeration value="equalToOrLessThan5Centimetres"/>
    <xs:enumeration value="equalToOrLessThan10Centimetres"/>
    <xs:enumeration value="equalToOrLessThan20Centimetres"/>
    <xs:enumeration value="equalToOrLessThan50Centimetres"/>
    <xs:enumeration value="equalToOrLessThan1Metre"/>
    <xs:enumeration value="equalToOrLessThan2Metres"/>
    <xs:enumeration value="equalToOrLessThan5Metres"/>
    <xs:enumeration value="equalToOrLessThan10Metres"/>
    <xs:enumeration value="equalToOrLessThan20Metres"/>
    <xs:enumeration value="equalToOrLessThan50Metres"/>
    <xs:enumeration value="equalToOrLessThan100Metres"/>
    <xs:enumeration value="equalToOrLessThan200Metres"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

#### Simple Type: CarriagewayEnum

Super-types: [xs:string](#) < **CarriagewayEnum** (by restriction)

Sub-types: [\\_CarriagewayEnum](#) (by extension)

Name CarriagewayEnum

#### Content

- Base XSD Type: string
- *value* comes from list: {entrySlipRoad|exitSlipRoad|mainCarriageway|\_extended}

Documentation List of descriptors identifying specific carriageway details.

#### Schema Component Representation

```
<xs:simpleType name="CarriagewayEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="entrySlipRoad"/>
    <xs:enumeration value="exitSlipRoad"/>
    <xs:enumeration value="mainCarriageway"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

#### Simple Type: DirectionEnum

Super-types: [xs:string](#) < **DirectionEnum** (by restriction)

Sub-types: [\\_DirectionEnum](#) (by extension)

Name DirectionEnum

#### Content

- Base XSD Type: string
- *value* comes from list: {aligned|allDirections|anticlockwise|bothWays|clockwise|innerRing|outerRing|eastBound|northBound|northEastBound|northWestBound|southBound|southEastBound|southWestBound|southWestBound|southWestBound|\_extended}

Documentation List of directions of travel.

#### Schema Component Representation

```

<xs:simpleType name="DirectionEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="aligned"/>
    <xs:enumeration value="allDirections"/>
    <xs:enumeration value="anticlockwise"/>
    <xs:enumeration value="bothWays"/>
    <xs:enumeration value="clockwise"/>
    <xs:enumeration value="innerRing"/>
    <xs:enumeration value="outerRing"/>
    <xs:enumeration value="eastBound"/>
    <xs:enumeration value="northBound"/>
    <xs:enumeration value="northEastBound"/>
    <xs:enumeration value="northWestBound"/>
    <xs:enumeration value="southBound"/>
    <xs:enumeration value="southEastBound"/>
    <xs:enumeration value="southWestBound"/>
    <xs:enumeration value="westBound"/>
    <xs:enumeration value="inboundTowardsTown"/>
    <xs:enumeration value="outboundFromTown"/>
    <xs:enumeration value="opposite"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: GmlPosList

Super-types: [com:LongString](#) < GmlPosList (by restriction)  
 Sub-types: None

Name GmlPosList

Content

- 'LongString' super type was not found in this schema. Its facets could not be printed out.
- pattern = `[-+]?[0-9]*\.[0-9]+(\s[-+]?[0-9]*\.[0-9]+){3,}`

Documentation List of coordinates, space-separated, within the same coordinate reference system, defining a geometric entity. Modelled on DirectPositionListType in GML (EN ISO 19136), but constrained to represent a 2D or 3D polyline.

### Schema Component Representation

```

<xs:simpleType name="GmlPosList">
  <xs:restriction base="com:LongString">
    <xs:pattern value="[-+]?[0-9]*\.[0-9]+(\s[-+]?[0-9]*\.[0-9]+){3,}" />
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: HeightGradeEnum

Super-types: [xs:string](#) < HeightGradeEnum (by restriction)  
 Sub-types: [\\_HeightGradeEnum](#) (by extension)

Name HeightGradeEnum

Content

- Base XSD Type: string
- value comes from list: {'aboveGrade'|'atGrade'|'belowGrade'|'\_extended'}

Documentation List of height or vertical gradings of road sections.

### Schema Component Representation

```

<xs:simpleType name="HeightGradeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="aboveGrade"/>
    <xs:enumeration value="atGrade"/>
    <xs:enumeration value="belowGrade"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: HeightTypeEnum

Super-types: [xs:string](#) < HeightTypeEnum (by restriction)  
 Sub-types: [\\_HeightTypeEnum](#) (by extension)

Name HeightTypeEnum

Content

- Base XSD Type: string
- value comes from list: {'ellipsoidalHeight'|'gravityRelatedHeight'|'relativeHeight'|'\_extended'}

Documentation Coded value for type of height

### Schema Component Representation

```

<xs:simpleType name="HeightTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ellipsoidalHeight"/>
    <xs:enumeration value="gravityRelatedHeight"/>
    <xs:enumeration value="relativeHeight"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: InfrastructureDescriptorEnum

**Super-types:** [xs:string](#) < **InfrastructureDescriptorEnum** (by restriction)

**Sub-types:**

- [\\_InfrastructureDescriptorEnum](#) (by extension)

**Name** InfrastructureDescriptorEnum

**Content**

- Base XSD Type: string
- *value* comes from list: {'InTunnel'|'onBridge'|'onConnector'|'\_extended'}

**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="inTunnel"/>
    <xs:enumeration value="onBridge"/>
    <xs:enumeration value="onConnector"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

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## 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>

```

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## 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>
```

[top](#)

## Simple Type: **OpenlrFunctionalRoadClassEnum**

Super-types: [xs:string](#) < **OpenlrFunctionalRoadClassEnum** (by restriction)

Sub-types:

- [\\_OpenlrFunctionalRoadClassEnum](#) (by extension)

Name OpenlrFunctionalRoadClassEnum

Content

- Base XSD Type: string
- *value* comes from list: {'frc0'|'frc1'|'frc2'|'frc3'|'frc4'|'frc5'|'frc6'|'frc7'|'\_extended'}

Documentation Enumeration of functional road class

### Schema Component Representation

```
<xs:simpleType name="OpenlrFunctionalRoadClassEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="frc0"/>
    <xs:enumeration value="frc1"/>
    <xs:enumeration value="frc2"/>
    <xs:enumeration value="frc3"/>
    <xs:enumeration value="frc4"/>
    <xs:enumeration value="frc5"/>
    <xs:enumeration value="frc6"/>
    <xs:enumeration value="frc7"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

## Simple Type: **OpenlrOrientationEnum**

Super-types: [xs:string](#) < **OpenlrOrientationEnum** (by restriction)

Sub-types:

- [\\_OpenlrOrientationEnum](#) (by extension)

Name OpenlrOrientationEnum

Content

- Base XSD Type: string
- *value* comes from list:  
{'noOrientationOrUnknown'|'withLineDirection'|'againstLineDirection'|'both'|'\_extended'}

Documentation Enumeration of orientation

### Schema Component Representation

```
<xs:simpleType name="OpenlrOrientationEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="noOrientationOrUnknown"/>
    <xs:enumeration value="withLineDirection"/>
    <xs:enumeration value="againstLineDirection"/>
    <xs:enumeration value="both"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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## Simple Type: **OpenlrSideOfRoadEnum**

**Super-types:** [xs:string](#) < **OpenlrSideOfRoadEnum** (by restriction)

**Sub-types:**

- [\\_OpenlrSideOfRoadEnum](#) (by extension)

**Name** OpenlrSideOfRoadEnum

**Content**

- Base XSD Type: string
- *value* comes from list: {'onRoadOrUnknown'|'right'|'left'|'both'|'\_extended'}

**Documentation** Enumeration of side of road

#### Schema Component Representation

```
<xs:simpleType name="OpenlrSideOfRoadEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="onRoadOrUnknown"/>
    <xs:enumeration value="right"/>
    <xs:enumeration value="left"/>
    <xs:enumeration value="both"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

### Simple Type: **PositionConfidenceCodedErrorEnum**

**Super-types:** [xs:string](#) < **PositionConfidenceCodedErrorEnum** (by restriction)

**Sub-types:**

- [\\_PositionConfidenceCodedErrorEnum](#) (by extension)

**Name** PositionConfidenceCodedErrorEnum

**Content**

- Base XSD Type: string
- *value* comes from list: {'outOfRange'|'unavailable'|'\_extended'}

**Documentation** Error code for horizontal or vertical position confidence

#### Schema Component Representation

```
<xs:simpleType name="PositionConfidenceCodedErrorEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="outOfRange"/>
    <xs:enumeration value="unavailable"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

### Simple Type: **ReferentTypeEnum**

**Super-types:** [xs:string](#) < **ReferentTypeEnum** (by restriction)

**Sub-types:**

- [\\_ReferentTypeEnum](#) (by extension)

**Name** ReferentTypeEnum

**Content**

- Base XSD Type: string
- *value* comes from list: {'boundary'|'intersection'|'referenceMarker'|'landmark'|'roadNode'|'\_extended'}

**Documentation** A set of types of known points along a linear object such as a road.

#### Schema Component Representation

```
<xs:simpleType name="ReferentTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="boundary"/>
    <xs:enumeration value="intersection"/>
    <xs:enumeration value="referenceMarker"/>
    <xs:enumeration value="landmark"/>
    <xs:enumeration value="roadNode"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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# DATEXII\_3\_Situation

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## Schema Document Properties

<b>Target Namespace</b>	<a href="http://datex2.eu/schema/3/situation">http://datex2.eu/schema/3/situation</a>
<b>Version</b>	3.3
<b>Element and Attribute Namespaces</b>	

- 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	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
xs	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
loc	<a href="http://datex2.eu/schema/3/locationReferencing">http://datex2.eu/schema/3/locationReferencing</a>
com	<a href="http://datex2.eu/schema/3/common">http://datex2.eu/schema/3/common</a>
sit	<a href="http://datex2.eu/schema/3/situation">http://datex2.eu/schema/3/situation</a>

## 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: **AbnormalTraffic**

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < **AbnormalTraffic** (by extension)

Sub-types: None

<b>Name</b>	AbnormalTraffic
<b>Abstract</b>	no
<b>Documentation</b>	A traffic condition which is not normal.

## XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:situationRecordExtension> com:_ExtensionType </sit:situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..1] ?
  <sit:trafficElementExtension> com:_ExtensionType </sit:trafficElementExtension> [0..1]
  <sit:abnormalTrafficType> sit:_AbnormalTrafficTypeEnum </sit:abnormalTrafficType> [0..1] ?
  <sit:queueLength> com:MetresAsNonNegativeInteger </sit:queueLength> [0..1] ?
  <sit:_abnormalTrafficExtension> com:_ExtensionType </sit:_abnormalTrafficExtension> [0..1]
</...>
```

## Schema Component Representation

```
<xs:complexType name="AbnormalTraffic">
  <xs:complexContent>
    <xs:extension base="sit:TrafficElement">
      <xs:sequence>
        <xs:element name="abnormalTrafficType" type="sit:_AbnormalTrafficTypeEnum" minOccurs="0" maxOccurs="1"/>
        <xs:element name="queueLength" type="com:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1"/>
        <xs:element name="_abnormalTrafficExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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### Complex Type: **Accident**

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < **Accident** (by extension)

Sub-types: None

<b>Name</b>	Accident
<b>Abstract</b>	no
<b>Documentation</b>	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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
<sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
<sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
<sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
<sit:severity> sit:SeverityEnum </sit:severity> [0..1] ?
<sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
<sit:validity> com:Validity </sit:validity> [1]
<sit:impact> sit:Impact </sit:impact> [0..1] ?
<sit:cause> sit:Cause </sit:cause> [0..1]
<sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
<sit:locationReference> loc:LocationReference </sit:locationReference> [1]
<sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
<sit:trafficConstrictionType> sit:TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..1] ?
<sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
<sit:_accidentType> sit:_AccidentTypeEnum </sit:_accidentType> [1..*] ?
<sit:_accidentExtension> com:_ExtensionType </sit:_accidentExtension> [0..1]
</...>

```

#### Schema Component Representation

```

<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="_accidentExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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### Complex Type: Activity

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < **Activity** (by extension)

Sub-types:

- [DisturbanceActivity](#) (by extension)
- [PublicEvent](#) (by extension)

<b>Name</b>	Activity
<b>Abstract</b>	yes
<b>Documentation</b>	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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..1] ?
  <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
  <sit:_activityExtension> com:_ExtensionType </sit:_activityExtension> [0..1]
</...>

```

#### Schema Component Representation

```

<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>

```

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### Complex Type: AnimalPresenceObstruction

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Obstruction](#) (by extension) < **AnimalPresenceObstruction** (by extension)

Sub-types: None

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

#### XML Instance Representation

```

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

```

```

<sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
<sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
<sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
<sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
<sit:severity> sit:SeverityEnum </sit:severity> [0..1] ?
<sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
<sit:validity> com:Validity </sit:validity> [1]
<sit:impact> sit:Impact </sit:impact> [0..1] ?
<sit:cause> sit:Cause </sit:cause> [0..1]
<sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
<sit:locationReference> loc:LocationReference </sit:locationReference> [1]
<sit:situationRecordExtension> com:ExtensionType </sit:situationRecordExtension> [0..1]
<sit:trafficConstrictionType> sit:TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..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>

```

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## Complex Type: Cause

Super-types:	None
Sub-types:	None

<b>Name</b>	Cause
<b>Abstract</b>	no
<b>Documentation</b>	Contains details of the cause of a record within a situation

#### XML Instance Representation

```

<...>
  <sit:causeDescription> com:MultilingualString </sit:causeDescription> [0..1] ?
  <sit:causeType> sit:CauseTypeEnum </sit:causeType> [0..1] ?
  <sit:_causeExtension> com:ExtensionType </sit:_causeExtension> [0..1]
</...>

```

#### Schema Component Representation

```

<xs:complexType name="Cause">
  <xs:sequence>
    <xs:element name="causeDescription" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="causeType" type="sit:CauseTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_causeExtension" type="com:ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

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## Complex Type: Comment

Super-types:	None
Sub-types:	None

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

#### XML Instance Representation

```

<...>
  <sit:comment> com:MultilingualString </sit:comment> [1] ?
  <sit:commentType> sit:CommentTypeEnum </sit:commentType> [0..1] ?
  <sit:_commentExtension> com:ExtensionType </sit:_commentExtension> [0..1]
</...>

```

#### Schema Component Representation

```

<xs:complexType name="Comment">
  <xs:sequence>
    <xs:element name="comment" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
    <xs:element name="commentType" type="sit:CommentTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_commentExtension" type="com:ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

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## 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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?  
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?  
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?  
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?  
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?  
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?  
  <sit:validity> com:Validity </sit:validity> [1]  
  <sit:impact> sit:Impact </sit:impact> [0..1] ?  
  <sit:cause> sit:Cause </sit:cause> [0..1]  
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?  
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]  
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]  
  <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..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>
```

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## Complex Type: ConstructionWorks

Super-types: [SituationRecord](#) < [OperatorAction](#) (by extension) < [Roadworks](#) (by extension) < **ConstructionWorks** (by extension)

Sub-types: None

**Name** ConstructionWorks  
**Abstract** no  
**Documentation** Roadworks involving the construction of new infrastructure.

### XML Instance Representation

```
<...  
  id="xs:string [1]"  
  version="xs:string [1]">  
  <sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?  
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?  
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?  
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?  
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?  
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?  
  <sit:validity> com:Validity </sit:validity> [1]  
  <sit:impact> sit:Impact </sit:impact> [0..1] ?  
  <sit:cause> sit:Cause </sit:cause> [0..1]  
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?  
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]  
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]  
  <sit:_operatorActionExtension> com:_ExtensionType </sit:_operatorActionExtension> [0..1]  
  <sit:_roadworksExtension> com:_ExtensionType </sit:_roadworksExtension> [0..1]  
  <sit:constructionWorkType> sit:_ConstructionWorkTypeEnum </sit:constructionWorkType> [1] ?  
  <sit:_constructionWorksExtension> com:_ExtensionType </sit:_constructionWorksExtension> [0..1]  
</...>
```

### Schema Component Representation

```
<xs:complexType name="ConstructionWorks">  
  <xs:complexContent>  
    <xs:extension base="sit:Roadworks">  
      <xs:sequence>  
        <xs:element name="constructionWorkType" type="sit:_ConstructionWorkTypeEnum" minOccurs="1" maxOccurs="1"/>  
        <xs:element name="_constructionWorksExtension" type="com:_ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

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## Complex Type: Delays

Super-types:	None
Sub-types:	None

<b>Name</b>	Delays
<b>Abstract</b>	no
<b>Documentation</b>	The details of the delays being caused by the situation element defined in the situation record. It is recommended to only use one of the optional attributes to avoid confusion.

### XML Instance Representation

```
<...>
  <sit:delayBand> sit:_DelayBandEnum </sit:delayBand> [0..1] ?
  <sit:delaysType> sit:_DelaysTypeEnum </sit:delaysType> [0..1] ?
  <sit:delayTimeValue> com:Seconds </sit:delayTimeValue> [0..1] ?
  <sit:_delaysExtension> com:_ExtensionType </sit:_delaysExtension> [0..1]
</...>
```

### Schema Component Representation

```
<xs:complexType name="Delays">
  <xs:sequence>
    <xs:element name="delayBand" type="sit:_DelayBandEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="delaysType" type="sit:_DelaysTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="delayTimeValue" type="com:Seconds" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_delaysExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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## Complex Type: DisturbanceActivity

Super-types:	<a href="#">SituationRecord</a> < <a href="#">TrafficElement</a> (by extension) < <a href="#">Activity</a> (by extension) < <b>DisturbanceActivity</b> (by extension)
Sub-types:	None

<b>Name</b>	DisturbanceActivity
<b>Abstract</b>	no
<b>Documentation</b>	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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..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:	<a href="#">SituationRecord</a> < <a href="#">TrafficElement</a> (by extension) < <a href="#">Obstruction</a> (by extension) < <b>EnvironmentalObstruction</b> (by extension)
Sub-types:	None

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

## XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
  <sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:_trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:_trafficConstrictionType> [0..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

<b>Name</b>	GeneralInstructionOrMessageToRoadUsers
<b>Abstract</b>	no
<b>Documentation</b>	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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <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:forVehiclesWithCharacteristicsOf> com:VehicleCharacteristics </sit:forVehiclesWithCharacteristicsOf> [0..*] ?
  <sit:_networkManagementExtension> com:_ExtensionType </sit:_networkManagementExtension> [0..1]
  <sit:_generalInstructionToRoadUsersType> sit:_GeneralInstructionToRoadUsersTypeEnum
  </sit:_generalInstructionToRoadUsersType> [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="_generalInstructionOrMessageToRoadUsersExtension" type="com:_ExtensionType"
          minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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## Complex Type: GeneralNetworkManagement



Super-types:	<a href="#">SituationRecord</a> < <a href="#">OperatorAction</a> (by extension) < <a href="#">NetworkManagement</a> (by extension) < <a href="#">GeneralNetworkManagement</a> (by extension)
Sub-types:	None

<b>Name</b>	GeneralNetworkManagement
<b>Abstract</b>	no
<b>Documentation</b>	Network management action that is instigated either manually or automatically by the network/road operator. Compliance with any resulting control may be advisory or mandatory.

#### XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]"
  <sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:_Impact </sit:impact> [0..1] ?
  <sit:cause> sit:_Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:_Comment </sit:generalPublicComment> [0..*] ?
  <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:forVehiclesWithCharacteristicsOf> com:_VehicleCharacteristics </sit:forVehiclesWithCharacteristicsOf> [0..*] ?
  <sit:_networkManagementExtension> com:_ExtensionType </sit:_networkManagementExtension> [0..1]
  <sit:_generalNetworkManagementType> sit:_GeneralNetworkManagementTypeEnum </sit:_generalNetworkManagementType> [1] ?
  <sit:_generalNetworkManagementExtension> com:_ExtensionType </sit:_generalNetworkManagementExtension> [0..1]
</...>
```

#### Schema Component Representation

```
<xs:complexType name="GeneralNetworkManagement">
  <xs:complexContent>
    <xs:extension base="sit:NetworkManagement">
      <xs:sequence>
        <xs:element name="generalNetworkManagementType" type="sit:_GeneralNetworkManagementTypeEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_generalNetworkManagementExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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### Complex Type: GeneralObstruction

Super-types:	<a href="#">SituationRecord</a> < <a href="#">TrafficElement</a> (by extension) < <a href="#">Obstruction</a> (by extension) < <a href="#">GeneralObstruction</a> (by extension)
Sub-types:	None

<b>Name</b>	GeneralObstruction
<b>Abstract</b>	no
<b>Documentation</b>	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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:_Impact </sit:impact> [0..1] ?
  <sit:cause> sit:_Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:_Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:_trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:_trafficConstrictionType> [0..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: **Impact**

Super-types:	None
Sub-types:	None

<b>Name</b>	Impact
<b>Abstract</b>	no
<b>Documentation</b>	An assessment of the impact that an event or operator action defined by the situation record has on the driving conditions.

## XML Instance Representation

```
<...>
  <sit:capacityRemaining> com:Percentage </sit:capacityRemaining> [0..1] ?
  <sit:numberOfLanesRestricted> com:NonNegativeInteger </sit:numberOfLanesRestricted> [0..1] ?
  <sit:numberOfOperationalLanes> com:NonNegativeInteger </sit:numberOfOperationalLanes> [0..1] ?
  <sit:residualLaneWidth> com:MetresAsFloat </sit:residualLaneWidth> [0..1] ?
  <sit:residualRoadWidth> com:MetresAsFloat </sit:residualRoadWidth> [0..1] ?
  <sit:delays> sit:Delays </sit:delays> [0..1]
  <sit:_impactExtension> com:_ExtensionType </sit:_impactExtension> [0..1]
</...>
```

## Schema Component Representation

```
<xs:complexType name="Impact">
  <xs:sequence>
    <xs:element name="capacityRemaining" type="com:Percentage" minOccurs="0" maxOccurs="1"/>
    <xs:element name="numberOfLanesRestricted" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="numberOfOperationalLanes" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="residualLaneWidth" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="residualRoadWidth" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="delays" type="sit:Delays" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_impactExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

Complex Type: **InfrastructureDamageObstruction**

Super-types:	<a href="#">SituationRecord</a> < <a href="#">TrafficElement</a> (by extension) < <a href="#">Obstruction</a> (by extension) < <a href="#">InfrastructureDamageObstruction</a> (by extension)
Sub-types:	None

<b>Name</b>	InfrastructureDamageObstruction
<b>Abstract</b>	no
<b>Documentation</b>	An obstruction on the road resulting from the failure or damage of infrastructure on, under, above or close to the road.

## XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
  <sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:_trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:_trafficConstrictionType> [0..1] ?
  <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
  <sit:_obstructionExtension> com:_ExtensionType </sit:_obstructionExtension> [0..1]
  <sit:_infrastructureDamageType> sit:_InfrastructureDamageTypeEnum </sit:_infrastructureDamageType> [1] ?
  <sit:_infrastructureDamageObstructionExtension> com:_ExtensionType
</sit:_infrastructureDamageObstructionExtension> [0..1]
</...>
```

## Schema Component Representation

```
<xs:complexType name="InfrastructureDamageObstruction">
  <xs:complexContent>
    <xs:extension base="sit:Obstruction">
      <xs:sequence>
        <xs:element name="infrastructureDamageType" type="sit:_InfrastructureDamageTypeEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_infrastructureDamageObstructionExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:_operatorActionExtension> com:_ExtensionType </sit:_operatorActionExtension> [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>
```

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**Complex Type: NetworkManagement**

Super-types: [SituationRecord](#) < [OperatorAction](#) (by extension) < [NetworkManagement](#) (by extension)  
 Sub-types:
 

- [GeneralInstructionOrMessageToRoadUsers](#) (by extension)
- [GeneralNetworkManagement](#) (by extension)
- [RoadOrCarriagewayOrLaneManagement](#) (by extension)
- [SpeedManagement](#) (by extension)
- [WinterDrivingManagement](#) (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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <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:_forVehiclesWithCharacteristicsOf> com:_VehicleCharacteristics </sit:_forVehiclesWithCharacteristicsOf> [0..*] ?
  <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="forVehiclesWithCharacteristicsOf" type="com:_VehicleCharacteristics" minOccurs="0"
          maxOccurs="unbounded"/>
        <xs:element name="_networkManagementExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
```

### Complex Type: NonWeatherRelatedRoadConditions

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Conditions](#) (by extension) < [RoadSurfaceConditions](#) (by extension) < **NonWeatherRelatedRoadConditions** (by extension)

Sub-types: None

<b>Name</b>	NonWeatherRelatedRoadConditions
<b>Abstract</b>	no
<b>Documentation</b>	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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..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)
- [InfrastructureDamageObstruction](#) (by extension)
- [VehicleObstruction](#) (by extension)

<b>Name</b>	Obstruction
<b>Abstract</b>	yes
<b>Documentation</b>	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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..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>
```

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## Complex Type: OperatorAction

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

Sub-types:

- [NetworkManagement](#) (by extension)
  - [GeneralInstructionOrMessageToRoadUsers](#) (by extension)
  - [GeneralNetworkManagement](#) (by extension)
  - [RoadOrCarriagewayOrLaneManagement](#) (by extension)
  - [SpeedManagement](#) (by extension)
  - [WinterDrivingManagement](#) (by extension)
- [Roadworks](#) (by extension)
  - [ConstructionWorks](#) (by extension)
  - [MaintenanceWorks](#) (by extension)

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

## XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
  <sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <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>
```

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## Complex Type: PoorEnvironmentConditions

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Conditions](#) (by extension) < **PoorEnvironmentConditions** (by extension)

Sub-types: None

<b>Name</b>	PoorEnvironmentConditions
<b>Abstract</b>	no
<b>Documentation</b>	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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..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>

```

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### Complex Type: PublicEvent

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Activity](#) (by extension) < **PublicEvent** (by extension)

Sub-types: None

<b>Name</b>	PublicEvent
<b>Abstract</b>	no
<b>Documentation</b>	Organised public event which could disrupt traffic.

#### XML Instance Representation

```

<...
id="xs:string [1]"
version="xs:string [1]">
  <sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit: _ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit: _SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit: _situationRecordExtension> com: _ExtensionType </sit: _situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit: _TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..1] ?
  <sit: _trafficElementExtension> com: _ExtensionType </sit: _trafficElementExtension> [0..1]
  <sit: _activityExtension> com: _ExtensionType </sit: _activityExtension> [0..1]
  <sit:publicEventType> com: _PublicEventTypeEnum </sit:publicEventType> [1] ?
  <sit: _publicEventExtension> com: _ExtensionType </sit: _publicEventExtension> [0..1]
</...>

```

#### Schema Component Representation

```

<xs:complexType name="PublicEvent">
  <xs:complexContent>
    <xs:extension base="sit:Activity">
      <xs:sequence>
        <xs:element name="publicEventType" type="com: _PublicEventTypeEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name=" _publicEventExtension" type="com: _ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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### Complex Type: RoadOrCarriagewayOrLaneManagement

Super-types: [SituationRecord](#) < [OperatorAction](#) (by extension) < [NetworkManagement](#) (by extension) < **RoadOrCarriagewayOrLaneManagement** (by extension)

Sub-types: None

<b>Name</b>	RoadOrCarriagewayOrLaneManagement
<b>Abstract</b>	no
<b>Documentation</b>	Road, carriageway or lane management action that is instigated by the network/road operator.

#### XML Instance Representation

```

<...
id="xs:string [1]"
version="xs:string [1]">
  <sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit: _ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit: _SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
</...>

```

```

<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:forVehiclesWithCharacteristicsOf> com:VehicleCharacteristics </sit:forVehiclesWithCharacteristicsOf> [0..*] ?
<sit:networkManagementExtension> com:ExtensionType </sit:networkManagementExtension> [0..1]
<sit:roadOrCarriagewayOrLaneManagementType> sit:RoadOrCarriagewayOrLaneManagementTypeEnum
</sit:roadOrCarriagewayOrLaneManagementType> [1] ?
<sit:roadOrCarriagewayOrLaneManagementExtension> com:ExtensionType
</sit:_roadOrCarriagewayOrLaneManagementExtension> [0..1]
</...>

```

#### Schema Component Representation

```

<xs:complexType name="RoadOrCarriagewayOrLaneManagement">
  <xs:complexContent>
    <xs:extension base="sit:NetworkManagement">
      <xs:sequence>
        <xs:element name="roadOrCarriagewayOrLaneManagementType"
          type="sit:RoadOrCarriagewayOrLaneManagementTypeEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_roadOrCarriagewayOrLaneManagementExtension" type="com:ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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### Complex Type: RoadSurfaceConditions

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Conditions](#) (by extension) < **RoadSurfaceConditions** (by extension)

Sub-types:

- [NonWeatherRelatedRoadConditions](#) (by extension)
- [WeatherRelatedRoadConditions](#) (by extension)

<b>Name</b>	RoadSurfaceConditions
<b>Abstract</b>	yes
<b>Documentation</b>	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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:situationRecordExtension> com:ExtensionType </sit:situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..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>

```

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### Complex Type: Roadworks

Super-types: [SituationRecord](#) < [OperatorAction](#) (by extension) < **Roadworks** (by extension)

Sub-types:

- [ConstructionWorks](#) (by extension)
- [MaintenanceWorks](#) (by extension)

<b>Name</b>	Roadworks
<b>Abstract</b>	yes
<b>Documentation</b>	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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?

```

```

</sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
</sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
</sit:probabilityOfOccurrence> sit:_ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
</sit:severity> sit:_SeverityEnum </sit:severity> [0..1] ?
</sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
</sit:validity> com:Validity </sit:validity> [1]
</sit:impact> sit:Impact </sit:impact> [0..1] ?
</sit:cause> sit:Cause </sit:cause> [0..1]
</sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
</sit:locationReference> loc:LocationReference </sit:locationReference> [1]
</sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
</sit:_operatorActionExtension> com:_ExtensionType </sit:_operatorActionExtension> [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="_roadworksExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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### Complex Type: Situation

Super-types:	None
Sub-types:	None

<b>Name</b>	Situation
<b>Abstract</b>	no
<b>Documentation</b>	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:overallSeverity> sit:_SeverityEnum </sit:overallSeverity> [0..1] ?
  <sit:situationVersionTime> com:DateTime </sit:situationVersionTime> [0..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="overallSeverity" type="sit:_SeverityEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="situationVersionTime" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
    <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>

```

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### Complex Type: SituationPublication

Super-types:	<a href="#">com:PayloadPublication</a> < SituationPublication (by extension)
Sub-types:	None

<b>Name</b>	SituationPublication
<b>Abstract</b>	no
<b>Documentation</b>	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>

```



### Complex Type: **SituationRecord**

Super-types: None

Sub-types:

- [OperatorAction](#) (by extension)
  - [NetworkManagement](#) (by extension)
    - [GeneralInstructionOrMessageToRoadUsers](#) (by extension)
    - [GeneralNetworkManagement](#) (by extension)
    - [RoadOrCarriagewayOrLaneManagement](#) (by extension)
    - [SpeedManagement](#) (by extension)
    - [WinterDrivingManagement](#) (by extension)
  - [Roadworks](#) (by extension)
    - [ConstructionWorks](#) (by extension)
    - [MaintenanceWorks](#) (by extension)
- [TrafficElement](#) (by extension)
  - [AbnormalTraffic](#) (by extension)
  - [Accident](#) (by extension)
  - [Activity](#) (by extension)
    - [DisturbanceActivity](#) (by extension)
    - [PublicEvent](#) (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)
    - [InfrastructureDamageObstruction](#) (by extension)
    - [VehicleObstruction](#) (by extension)

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

#### XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
  <sit:situationRecordCreationReference com:String />
  <sit:situationRecordCreationTime com:DateTime />
  <sit:situationRecordVersionTime com:DateTime />
  <sit:probabilityOfOccurrence sit:ProbabilityOfOccurrenceEnum />
  <sit:severity sit:_SeverityEnum />
  <sit:safetyRelatedMessage com:Boolean />
  <sit:validity com:Validity />
  <sit:impact sit:Impact />
  <sit:cause sit:Cause />
  <sit:generalPublicComment sit:Comment />
  <sit:locationReference loc:LocationReference />
  <sit:_situationRecordExtension com:_ExtensionType />
</...>
```

#### Schema Component Representation

```
<xs:complexType name="SituationRecord" abstract="true">
  <xs:sequence>
    <xs:element name="situationRecordCreationReference" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="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="severity" type="sit:_SeverityEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="safetyRelatedMessage" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="validity" type="com:Validity"/>
    <xs:element name="impact" type="sit:Impact" minOccurs="0"/>
    <xs:element name="cause" type="sit:Cause" minOccurs="0"/>
    <xs:element name="generalPublicComment" type="sit:Comment" minOccurs="0" maxOccurs="unbounded"/>
    <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>
```

### Complex Type: **SpeedManagement**

Super-types: [SituationRecord](#) < [OperatorAction](#) (by extension) < [NetworkManagement](#) (by extension) < [SpeedManagement](#) (by extension)

Sub-types: None

<b>Name</b>	SpeedManagement
<b>Abstract</b>	no
<b>Documentation</b>	Speed management action that is instigated by the network/road operator.

#### XML Instance Representation

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



```

version="xs:string [1]">
  <sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <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:forVehiclesWithCharacteristicsOf> com:VehicleCharacteristics </sit:forVehiclesWithCharacteristicsOf> [0..*] ?
  <sit:_networkManagementExtension> com:_ExtensionType </sit:_networkManagementExtension> [0..1]
  <sit:speedManagementType> sit:_SpeedManagementTypeEnum </sit:speedManagementType> [0..1] ?
  <sit:temporarySpeedLimit> com:KilometresPerHour </sit:temporarySpeedLimit> [0..1] ?
  <sit:_speedManagementExtension> com:_ExtensionType </sit:_speedManagementExtension> [0..1]
</...>

```

#### Schema Component Representation

```

<xs:complexType name="SpeedManagement">
  <xs:complexContent>
    <xs:extension base="sit:NetworkManagement">
      <xs:sequence>
        <xs:element name="speedManagementType" type="sit:_SpeedManagementTypeEnum" minOccurs="0" maxOccurs="1"/>
        <xs:element name="temporarySpeedLimit" type="com:KilometresPerHour" minOccurs="0" maxOccurs="1"/>
        <xs:element name="_speedManagementExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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### Complex Type: TrafficElement

Super-types: [SituationRecord](#) < TrafficElement (by extension)

Sub-types:

- [AbnormalTraffic](#) (by extension)
- [Accident](#) (by extension)
- [Activity](#) (by extension)
  - [DisturbanceActivity](#) (by extension)
  - [PublicEvent](#) (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)
  - [InfrastructureDamageObstruction](#) (by extension)
  - [VehicleObstruction](#) (by extension)

<b>Name</b>	TrafficElement
<b>Abstract</b>	yes
<b>Documentation</b>	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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:_situationRecordExtension> com:_ExtensionType </sit:_situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:_TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..1] ?
  <sit:_trafficElementExtension> com:_ExtensionType </sit:_trafficElementExtension> [0..1]
</...>

```

#### Schema Component Representation

```

<xs:complexType name="TrafficElement" abstract="true">
  <xs:complexContent>
    <xs:extension base="sit:SituationRecord">
      <xs:sequence>
        <xs:element name="trafficConstrictionType" type="sit:_TrafficConstrictionTypeEnum" minOccurs="0" 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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:situationRecordExtension> com:ExtensionType </sit:situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..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>
```

## 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:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
  <sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
  <sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
  <sit:probabilityOfOccurrence> sit:ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
  <sit:severity> sit:SeverityEnum </sit:severity> [0..1] ?
  <sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
  <sit:validity> com:Validity </sit:validity> [1]
  <sit:impact> sit:Impact </sit:impact> [0..1] ?
  <sit:cause> sit:Cause </sit:cause> [0..1]
  <sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
  <sit:locationReference> loc:LocationReference </sit:locationReference> [1]
  <sit:situationRecordExtension> com:ExtensionType </sit:situationRecordExtension> [0..1]
  <sit:trafficConstrictionType> sit:TrafficConstrictionTypeEnum </sit:trafficConstrictionType> [0..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: WinterDrivingManagement

**Super-types:** [SituationRecord](#) < [OperatorAction](#) (by extension) < [NetworkManagement](#) (by extension) < [WinterDrivingManagement](#) (by extension)

**Sub-types:** None

**Name** WinterDrivingManagement

**Abstract** no

**Documentation** Winter driving management action that is instigated by the network/road operator.

### XML Instance Representation

```

<...
id="xs:string [1]"
version="xs:string [1]">
<sit:situationRecordCreationReference> com:String </sit:situationRecordCreationReference> [0..1] ?
<sit:situationRecordCreationTime> com:DateTime </sit:situationRecordCreationTime> [1] ?
<sit:situationRecordVersionTime> com:DateTime </sit:situationRecordVersionTime> [1] ?
<sit:probabilityOfOccurrence> sit: ProbabilityOfOccurrenceEnum </sit:probabilityOfOccurrence> [1] ?
<sit:severity> sit: SeverityEnum </sit:severity> [0..1] ?
<sit:safetyRelatedMessage> com:Boolean </sit:safetyRelatedMessage> [0..1] ?
<sit:validity> com:Validity </sit:validity> [1]
<sit:impact> sit:Impact </sit:impact> [0..1] ?
<sit:cause> sit:Cause </sit:cause> [0..1]
<sit:generalPublicComment> sit:Comment </sit:generalPublicComment> [0..*] ?
<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:forVehiclesWithCharacteristicsOf> com:VehicleCharacteristics </sit:forVehiclesWithCharacteristicsOf> [0..*] ?
<sit: networkManagementExtension> com: ExtensionType </sit: networkManagementExtension> [0..1]
<sit:winterEquipmentManagementType> com: WinterEquipmentManagementTypeEnum </sit:winterEquipmentManagementType> [1] ?
<sit: winterDrivingManagementExtension> com: ExtensionType </sit: winterDrivingManagementExtension> [0..1]
</...>

```

### Schema Component Representation

```

<xs:complexType name="WinterDrivingManagement">
<xs:complexContent>
<xs:extension base="sit:NetworkManagement">
<xs:sequence>
<xs:element name="winterEquipmentManagementType" type="com: WinterEquipmentManagementTypeEnum"
minOccurs="1" maxOccurs="1"/>
<xs:element name="_winterDrivingManagementExtension" type="com: ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

[top](#)

## Complex Type: \_AbnormalTrafficTypeEnum

**Super-types:** [xs:string](#) < [AbnormalTrafficTypeEnum](#) (by restriction) < [\\_AbnormalTrafficTypeEnum](#) (by extension)

**Sub-types:** None

**Name** \_AbnormalTrafficTypeEnum

**Abstract** no

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

[top](#)

## Complex Type: \_AccidentTypeEnum

**Super-types:** [xs:string](#) < [AccidentTypeEnum](#) (by restriction) < [\\_AccidentTypeEnum](#) (by extension)

**Sub-types:** None

Name `_AccidentTypeEnum`  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: `_AnimalPresenceTypeEnum`

Super-types: `xs:string` < [AnimalPresenceTypeEnum](#) (by restriction) < `_AnimalPresenceTypeEnum` (by extension)  
Sub-types: None

Name `_AnimalPresenceTypeEnum`  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: `_CauseTypeEnum`

Super-types: `xs:string` < [CauseTypeEnum](#) (by restriction) < `_CauseTypeEnum` (by extension)  
Sub-types: None

Name `_CauseTypeEnum`  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: `_CommentTypeEnum`

Super-types: `xs:string` < [CommentTypeEnum](#) (by restriction) < `_CommentTypeEnum` (by extension)  
Sub-types: None

Name `_CommentTypeEnum`  
**Abstract** no

#### XML Instance Representation

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

## Schema Component Representation

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

[top](#)

## Complex Type: **\_ComplianceOptionEnum**

Super-types: [xs:string](#) < [ComplianceOptionEnum](#) (by restriction) < [\\_ComplianceOptionEnum](#) (by extension)

Sub-types: None

Name [\\_ComplianceOptionEnum](#)

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: **\_ConstructionWorkTypeEnum**

Super-types: [xs:string](#) < [ConstructionWorkTypeEnum](#) (by restriction) < [\\_ConstructionWorkTypeEnum](#) (by extension)

Sub-types: None

Name [\\_ConstructionWorkTypeEnum](#)

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: **\_DelayBandEnum**

Super-types: [xs:string](#) < [DelayBandEnum](#) (by restriction) < [\\_DelayBandEnum](#) (by extension)

Sub-types: None

Name [\\_DelayBandEnum](#)

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: DelaysTypeEnum

Super-types: [xs:string](#) < [DelaysTypeEnum](#) (by restriction) < [\\_DelaysTypeEnum](#) (by extension)  
Sub-types: None

Name [\\_DelaysTypeEnum](#)  
**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: DisturbanceActivityTypeEnum

Super-types: [xs:string](#) < [DisturbanceActivityTypeEnum](#) (by restriction) < [\\_DisturbanceActivityTypeEnum](#) (by extension)  
Sub-types: None

Name [\\_DisturbanceActivityTypeEnum](#)  
**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: EnvironmentalObstructionTypeEnum

Super-types: [xs:string](#) < [EnvironmentalObstructionTypeEnum](#) (by restriction) < [\\_EnvironmentalObstructionTypeEnum](#) (by extension)  
Sub-types: None

Name [\\_EnvironmentalObstructionTypeEnum](#)  
**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: GeneralInstructionToRoadUsersTypeEnum

Super-types: [xs:string](#) < [GeneralInstructionToRoadUsersTypeEnum](#) (by restriction) < [\\_GeneralInstructionToRoadUsersTypeEnum](#) (by extension)  
Sub-types: None

Name [\\_GeneralInstructionToRoadUsersTypeEnum](#)  
**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: GeneralNetworkManagementTypeEnum

Super-types: [xs:string](#) < [GeneralNetworkManagementTypeEnum](#) (by restriction) < [\\_GeneralNetworkManagementTypeEnum](#) (by extension)

Sub-types: None

Name [\\_GeneralNetworkManagementTypeEnum](#)

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: InfrastructureDamageTypeEnum

Super-types: [xs:string](#) < [InfrastructureDamageTypeEnum](#) (by restriction) < [\\_InfrastructureDamageTypeEnum](#) (by extension)

Sub-types: None

Name [\\_InfrastructureDamageTypeEnum](#)

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: NonWeatherRelatedRoadConditionTypeEnum

Super-types: [xs:string](#) < [NonWeatherRelatedRoadConditionTypeEnum](#) (by restriction) < [\\_NonWeatherRelatedRoadConditionTypeEnum](#) (by extension)

Sub-types: None

Name [\\_NonWeatherRelatedRoadConditionTypeEnum](#)

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

```

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

```

[top](#)

## Complex Type: **\_ObstructionTypeEnum**

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

Name **\_ObstructionTypeEnum**  
 Abstract no

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

[top](#)

## Complex Type: **\_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>
```

[top](#)

### Complex Type: [\\_RoadOrCarriagewayOrLaneManagementTypeEnum](#)

Super-types: [xs:string](#) < [RoadOrCarriagewayOrLaneManagementTypeEnum](#) (by restriction) < [\\_RoadOrCarriagewayOrLaneManagementTypeEnum](#) (by extension)  
Sub-types: None

Name [\\_RoadOrCarriagewayOrLaneManagementTypeEnum](#)  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: [\\_SeverityEnum](#)

Super-types: [xs:string](#) < [SeverityEnum](#) (by restriction) < [\\_SeverityEnum](#) (by extension)  
Sub-types: None

Name [\\_SeverityEnum](#)  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: [\\_SpeedManagementTypeEnum](#)

Super-types: [xs:string](#) < [SpeedManagementTypeEnum](#) (by restriction) < [\\_SpeedManagementTypeEnum](#) (by extension)  
Sub-types: None

Name [\\_SpeedManagementTypeEnum](#)  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: **\_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>
```

[top](#)

### Complex Type: **\_VehicleObstructionTypeEnum**

Super-types: [xs:string](#) < [VehicleObstructionTypeEnum](#) (by restriction) < [\\_VehicleObstructionTypeEnum](#) (by extension)  
 Sub-types: None

Name [\\_VehicleObstructionTypeEnum](#)  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Simple Type: **AbnormalTrafficTypeEnum**

Super-types: [xs:string](#) < [AbnormalTrafficTypeEnum](#) (by restriction)  
 Sub-types:
 

- [\\_AbnormalTrafficTypeEnum](#) (by extension)

Name [AbnormalTrafficTypeEnum](#)  
 Content
 

- Base XSD Type: string
- *value* comes from list: {stationaryTraffic|queuingTraffic|slowTraffic|heavyTraffic|unspecifiedAbnormalTraffic|other|'\_extended'}

Documentation Descriptive terms for abnormal traffic conditions specifically relating to the nature of the traffic movement, implying levels of service.

#### Schema Component Representation

```
<xs:simpleType name="AbnormalTrafficTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="stationaryTraffic"/>
    <xs:enumeration value="queuingTraffic"/>
  </xs:restriction>
</xs:simpleType>
```

```

<xs:enumeration value="slowTraffic"/>
<xs:enumeration value="heavyTraffic"/>
<xs:enumeration value="unspecifiedAbnormalTraffic"/>
<xs:enumeration value="other"/>
<xs:enumeration value="_extended"/>
</xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: AccidentTypeEnum

Super-types: [xs:string](#) < AccidentTypeEnum (by restriction)

Sub-types: [\\_AccidentTypeEnum](#) (by extension)

Name AccidentTypeEnum

### Content

- Base XSD Type: string
- *value* comes from list: {accident|accidentInvolvingTrain|collision|multipleVehicleAccident|secondaryAccident|seriousInjuryOrFatalAccident|other|\_extended}

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="accidentInvolvingTrain"/>
    <xs:enumeration value="collision"/>
    <xs:enumeration value="multipleVehicleAccident"/>
    <xs:enumeration value="secondaryAccident"/>
    <xs:enumeration value="seriousInjuryOrFatalAccident"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: AnimalPresenceTypeEnum

Super-types: [xs:string](#) < AnimalPresenceTypeEnum (by restriction)

Sub-types: [\\_AnimalPresenceTypeEnum](#) (by extension)

Name AnimalPresenceTypeEnum

### Content

- Base XSD Type: string
- *value* comes from list: {animalsOnTheRoad|herdOfAnimalsOnTheRoad|largeAnimalsOnTheRoad|\_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="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: CauseTypeEnum

Super-types: [xs:string](#) < CauseTypeEnum (by restriction)

Sub-types: [\\_CauseTypeEnum](#) (by extension)

Name CauseTypeEnum

### Content

- Base XSD Type: string
- *value* comes from list: {earlierIncident|problemsAtBorderPost|other|\_extended}

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

### Schema Component Representation

```

<xs:simpleType name="CauseTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="earlierIncident"/>
    <xs:enumeration value="problemsAtBorderPost"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

## Simple Type: CommentTypeEnum

Super-types: [xs:string](#) < **CommentTypeEnum** (by restriction)

Sub-types: 

- [\\_CommentTypeEnum](#) (by extension)

Name CommentTypeEnum

Content 

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

Documentation Classification of comment types.

### Schema Component Representation

```
<xs:simpleType name="CommentTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="dataProcessingNote"/>
    <xs:enumeration value="description"/>
    <xs:enumeration value="internalNote"/>
    <xs:enumeration value="warning"/>
    <xs:enumeration value="other"/>
    <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: {mandatory|\_extended}

Documentation Types of compliance.

### Schema Component Representation

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

## Simple Type: ConstructionWorkTypeEnum

Super-types: [xs:string](#) < **ConstructionWorkTypeEnum** (by restriction)

Sub-types: 

- [\\_ConstructionWorkTypeEnum](#) (by extension)

Name ConstructionWorkTypeEnum

Content 

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

Documentation Types of works relating to construction.

### Schema Component Representation

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

## Simple Type: DelayBandEnum

Super-types: [xs:string](#) < **DelayBandEnum** (by restriction)

Sub-types: 

- [\\_DelayBandEnum](#) (by extension)

**Name** DelayBandEnum

**Content**

- Base XSD Type: string
- *value* comes from list:  
{negligible|upToTenMinutes|betweenTenMinutesAndThirtyMinutes|betweenThirtyMinutesAndOneHour|betweenOneHourAndThreeHours|betwee

**Documentation** Classifications of a delay banded by length (i.e. the additional travel time).

**Schema Component Representation**

```
<xs:simpleType name="DelayBandEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="negligible"/>
    <xs:enumeration value="upToTenMinutes"/>
    <xs:enumeration value="betweenTenMinutesAndThirtyMinutes"/>
    <xs:enumeration value="betweenThirtyMinutesAndOneHour"/>
    <xs:enumeration value="betweenOneHourAndThreeHours"/>
    <xs:enumeration value="betweenThreeHoursAndSixHours"/>
    <xs:enumeration value="longerThanSixHours"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

### Simple Type: DelaysTypeEnum

**Super-types:** [xs:string](#) < **DelaysTypeEnum** (by restriction)

**Sub-types:**

- [\\_DelaysTypeEnum](#) (by extension)

**Name** DelaysTypeEnum

**Content**

- Base XSD Type: string
- *value* comes from list:  
{delays|delaysOfUncertainDuration|longDelays|veryLongDelays|\_extended}

**Documentation** Course classifications of a delay.

**Schema Component Representation**

```
<xs:simpleType name="DelaysTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="delays"/>
    <xs:enumeration value="delaysOfUncertainDuration"/>
    <xs:enumeration value="longDelays"/>
    <xs:enumeration value="veryLongDelays"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

### Simple Type: DisturbanceActivityTypeEnum

**Super-types:** [xs:string](#) < **DisturbanceActivityTypeEnum** (by restriction)

**Sub-types:**

- [\\_DisturbanceActivityTypeEnum](#) (by extension)

**Name** DisturbanceActivityTypeEnum

**Content**

- Base XSD Type: string
- *value* comes from list: {attackOnVehicle|blockadeOrBarrier|other|\_extended}

**Documentation** Types of disturbance activities.

**Schema Component Representation**

```
<xs:simpleType name="DisturbanceActivityTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="attackOnVehicle"/>
    <xs:enumeration value="blockadeOrBarrier"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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### 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|flooding|forestFire|grassFire|landslips|rockfalls|stormDamage|

**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="flooding"/>
    <xs:enumeration value="forestFire"/>
    <xs:enumeration value="grassFire"/>
    <xs:enumeration value="landslips"/>
    <xs:enumeration value="rockfalls"/>
    <xs:enumeration value="stormDamage"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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## 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: {'approachWithCare'|'noOvertaking'|'other'|'\_extended'}

**Documentation** General instructions that may be issued to road users (specifically drivers and sometimes passengers) by an operator or operational system in support of network management activities or emergency situations.

### Schema Component Representation

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

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## Simple Type: GeneralNetworkManagementTypeEnum

Super-types: [xs:string](#) < **GeneralNetworkManagementTypeEnum** (by restriction)

Sub-types:

- [\\_GeneralNetworkManagementTypeEnum](#) (by extension)

**Name** GeneralNetworkManagementTypeEnum

**Content**

- Base XSD Type: string
- *value* comes from list: {'temporaryTrafficLights'|'other'|'\_extended'}

**Documentation** Types of network management actions.

### Schema Component Representation

```
<xs:simpleType name="GeneralNetworkManagementTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="temporaryTrafficLights"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

## Simple Type: InfrastructureDamageTypeEnum

Super-types: [xs:string](#) < **InfrastructureDamageTypeEnum** (by restriction)

Sub-types:

- [\\_InfrastructureDamageTypeEnum](#) (by extension)

**Name** InfrastructureDamageTypeEnum

**Content**

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

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

### Schema Component Representation

```
<xs:simpleType name="InfrastructureDamageTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="damagedRoadSurface"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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

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## 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: {looseChippings|'mudOnRoad'|oilOnRoad'|petrolOnRoad'|roadSurfaceInPoorCondition'|slipperyRoad'|other'|\_extended'}

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

### Schema Component Representation

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

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## 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: {childrenOnRoadway|cyclistsOnRoadway|'incident'|objectOnTheRoad'|obstructionOnTheRoad'|peopleOnRoadway'|rescueAndRecoveryWork'|sh

Documentation Types of obstructions on the roadway.

### Schema Component Representation

```
<xs:simpleType name="ObstructionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="childrenOnRoadway"/>
    <xs:enumeration value="cyclistsOnRoadway"/>
    <xs:enumeration value="incident"/>
    <xs:enumeration value="objectOnTheRoad"/>
    <xs:enumeration value="obstructionOnTheRoad"/>
    <xs:enumeration value="peopleOnRoadway"/>
    <xs:enumeration value="rescueAndRecoveryWork"/>
    <xs:enumeration value="shedLoad"/>
    <xs:enumeration value="spillageOnTheRoad"/>
    <xs:enumeration value="unprotectedAccidentArea"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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## Simple Type: PoorEnvironmentTypeEnum

Super-types: [xs:string](#) < PoorEnvironmentTypeEnum (by restriction)

Sub-types: [\\_PoorEnvironmentTypeEnum](#) (by extension)

Name PoorEnvironmentTypeEnum

Content

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

Documentation Types of poor environmental conditions.

### Schema Component Representation

```
<xs:simpleType name="PoorEnvironmentTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="badWeather"/>
    <xs:enumeration value="blizzard"/>
    <xs:enumeration value="blowingDust"/>
```

```

<xs:enumeration value="blowingSnow"/>
<xs:enumeration value="crosswinds"/>
<xs:enumeration value="damagingHail"/>
<xs:enumeration value="denseFog"/>
<xs:enumeration value="eclipse"/>
<xs:enumeration value="extremeCold"/>
<xs:enumeration value="extremeHeat"/>
<xs:enumeration value="fog"/>
<xs:enumeration value="freezingFog"/>
<xs:enumeration value="frost"/>
<xs:enumeration value="gales"/>
<xs:enumeration value="gustyWinds"/>
<xs:enumeration value="hail"/>
<xs:enumeration value="heavyFrost"/>
<xs:enumeration value="heavyRain"/>
<xs:enumeration value="heavySnowfall"/>
<xs:enumeration value="hurricaneForceWinds"/>
<xs:enumeration value="lowSunGlare"/>
<xs:enumeration value="moderateFog"/>
<xs:enumeration value="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>

```

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### 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>

```

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### 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: {'clearanceWork'|'grassCuttingWork'|'maintenanceWork'|'repairWork'|'roadMarkingWork'|'roadworks'|'treeAndVegetationCuttingWork'|'other'|'\_extended'}

**Documentation** Types of road maintenance.

#### Schema Component Representation

```

<xs:simpleType name="RoadMaintenanceTypeEnum">
  <xs:restriction base="xs:string">

```



```

<xs:enumeration value="clearanceWork"/>
<xs:enumeration value="grassCuttingWork"/>
<xs:enumeration value="maintenanceWork"/>
<xs:enumeration value="repairWork"/>
<xs:enumeration value="roadMarkingWork"/>
<xs:enumeration value="roadworks"/>
<xs:enumeration value="treeAndVegetationCuttingWork"/>
<xs:enumeration value="other"/>
<xs:enumeration value="_extended"/>
</xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: RoadOrCarriagewayOrLaneManagementTypeEnum

Super-types: [xs:string](#) < **RoadOrCarriagewayOrLaneManagementTypeEnum** (by restriction)

Sub-types:

- [\\_RoadOrCarriagewayOrLaneManagementTypeEnum](#) (by extension)

**Name** RoadOrCarriagewayOrLaneManagementTypeEnum

**Content**

- Base XSD Type: string
- *value* comes from list:
  - {closedPermanentlyForTheWinter|contraflow|hardShoulderRunningInOperation|intermittentShortTermClosures|laneClosures|overnightClosures'

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

### Schema Component Representation

```

<xs:simpleType name="RoadOrCarriagewayOrLaneManagementTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="closedPermanentlyForTheWinter"/>
    <xs:enumeration value="contraflow"/>
    <xs:enumeration value="hardShoulderRunningInOperation"/>
    <xs:enumeration value="intermittentShortTermClosures"/>
    <xs:enumeration value="laneClosures"/>
    <xs:enumeration value="overnightClosures"/>
    <xs:enumeration value="roadCleared"/>
    <xs:enumeration value="roadClosed"/>
    <xs:enumeration value="rushHourLaneInOperation"/>
    <xs:enumeration value="singleAlternateLineTraffic"/>
    <xs:enumeration value="tidalFlowLaneInOperation"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

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## Simple Type: SeverityEnum

Super-types: [xs:string](#) < **SeverityEnum** (by restriction)

Sub-types:

- [\\_SeverityEnum](#) (by extension)

**Name** SeverityEnum

**Content**

- Base XSD Type: string
- *value* comes from list: {'highest'|'high'|'medium'|'low'|'lowest'|'none'|'unknown'|'\_extended'}

**Documentation** Levels of severity of a situation as whole assessed by the impact that the situation may have on traffic flow as perceived by the supplier.

### Schema Component Representation

```

<xs:simpleType name="SeverityEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="highest"/>
    <xs:enumeration value="high"/>
    <xs:enumeration value="medium"/>
    <xs:enumeration value="low"/>
    <xs:enumeration value="lowest"/>
    <xs:enumeration value="none"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

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## Simple Type: SpeedManagementTypeEnum

Super-types: [xs:string](#) < **SpeedManagementTypeEnum** (by restriction)

Sub-types:

- [\\_SpeedManagementTypeEnum](#) (by extension)

**Name** SpeedManagementTypeEnum

**Content**

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

**Documentation** Management actions relating to speed.

#### Schema Component Representation

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

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#### 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>
```

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#### 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:  
{'abnormalLoad'|'brokenDownVehicle'|'damagedVehicle'|'vehicleCarryingHazardousMaterials'|'vehicleOnWrongCarriageway'|'vehicleStuck'|'vehicleW

**Documentation** Types of obstructions involving vehicles.

#### Schema Component Representation

```
<xs:simpleType name="VehicleObstructionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="abnormalLoad"/>
    <xs:enumeration value="brokenDownVehicle"/>
    <xs:enumeration value="damagedVehicle"/>
    <xs:enumeration value="vehicleCarryingHazardousMaterials"/>
    <xs:enumeration value="vehicleOnWrongCarriageway"/>
    <xs:enumeration value="vehicleStuck"/>
    <xs:enumeration value="vehicleWithOverheightLoad"/>
    <xs:enumeration value="vehicleWithOverwideLoad"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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