

Realis ITS

Version 06.12.2022

# DatexII 3.3 profile realiswind-3.0

# DATEXII\_3\_CommonExtension

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## Schema Document Properties

<b>Target Namespace</b>	<a href="http://datex2.eu/schema/3/commonExtension">http://datex2.eu/schema/3/commonExtension</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/common">http://datex2.eu/schema/3/common</a> (at DATEXII_3_Common.xsd)</li></ul></li></ul>

## Declared Namespaces

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

## Schema Component Representation

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

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## Global Definitions

### Complex Type: DayWeekMonthExtended

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

<b>Name</b>	DayWeekMonthExtended
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<b>Abstract</b>	no
<b>Documentation</b>	Extension of class DayWeekMonth.

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: FuzzyPeriod

Super-types:	None
Sub-types:	None

<b>Name</b>	FuzzyPeriod
<b>Abstract</b>	no
<b>Documentation</b>	Class for fuzzy periods of a day.

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: PeriodExtended

Super-types:	None
Sub-types:	None

<b>Name</b>	PeriodExtended
<b>Abstract</b>	no
<b>Documentation</b>	Extension class for Period.

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: **\_ApplicableDaysWithinMonthEnum**

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

**Sub-types:** None

**Name** [\\_ApplicableDaysWithinMonthEnum](#)

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: **\_FuzzyTimeEnum**

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

**Sub-types:** None

**Name** [\\_FuzzyTimeEnum](#)

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

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

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## Simple Type: **ApplicableDaysWithinMonthEnum**

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

*Sub-types:*

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

**Name** ApplicableDaysWithinMonthEnum

**Content**

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

**Documentation** Types of days within a month.

### Schema Component Representation

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

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## Simple Type: **FuzzyTimeEnum**

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

*Sub-types:*

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

**Name** FuzzyTimeEnum

**Content**

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

**Documentation** Enumeration for fuzzy time periods.

### Schema Component Representation

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

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# DATEXII\_3\_Common

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  - [Simple Type: CountryCode](#)
  - [Simple Type: DateTime](#)
  - [Simple Type: DayEnum](#)
  - [Simple Type: Float](#)
  - [Simple Type: InformationDeliveryServicesEnum](#)
  - [Simple Type: InformationStatusEnum](#)
  - [Simple Type: InstanceOfDayEnum](#)
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  - [Simple Type: SpecialDayTypeEnum](#)
  - [Simple Type: String](#)
  - [Simple Type: Time](#)
  - [Simple Type: TimePrecisionEnum](#)

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## Schema Document Properties

Target Namespace	<a href="http://datex2.eu/schema/3/common">http://datex2.eu/schema/3/common</a>
Version	3.3
Element and Attribute Namespaces	<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>
Schema Composition	<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/commonExtension">http://datex2.eu/schema/3/commonExtension</a> (at DATEXII_3_CommonExtension.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>
comx	<a href="http://datex2.eu/schema/3/commonExtension">http://datex2.eu/schema/3/commonExtension</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:import namespace="http://datex2.eu/schema/3/commonExtension" schemaLocation="DATEXII_3_CommonExtension.xsd"/>
  ...
</xs:schema>
```

</xs:schema>

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## Global Definitions

### Complex Type: **CalendarWeekWithinMonth**

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: **DataValue**

**Super-types:** None  
**Sub-types:**

- [DirectionBearingValue](#) (by extension)
- [WindSpeedValue](#) (by extension)

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: **DayWeekMonth**

**Super-types:** None  
**Sub-types:**

- [CalendarWeekWithinMonth](#) (by extension)
- [InstanceOfDayWithinMonth](#) (by extension)

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

#### XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **DirectionBearingValue**

Super-types:	<a href="#">DataValue</a> < <b>DirectionBearingValue</b> (by extension)
Sub-types:	None

Name	DirectionBearingValue
<u>Abstract</u>	no
Documentation	A measured or calculated value of direction as a bearing.

XML Instance Representation

```
<...>
  <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
  <com:_directionBearing> com:_AngleInDegrees </com:_directionBearing> [1] ?
  <com:_directionBearingValueExtension> com:_ExtensionType </com:_directionBearingValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DirectionBearingValue">
  <xs:complexContent>
    <xs:extension base="com:_DataValue">
      <xs:sequence>
        <xs:element name="directionBearing" type="com:_AngleInDegrees" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_directionBearingValueExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: **HeaderInformation**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```
<...>
  <com:_confidentiality> com:_ConfidentialityValueEnum </com:_confidentiality> [0..1] ?
  <com:_allowedDeliveryChannel> com:_InformationDeliveryServicesEnum </com:_allowedDeliveryChannel> [0..*] ?
  <com:_informationStatus> com:_InformationStatusEnum </com:_informationStatus> [1] ?
  <com:_headerInformationExtension> com:_ExtensionType </com:_headerInformationExtension> [0..1]
</...>
```

Schema Component Representation

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

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Complex Type: **InstanceOfDayWithinMonth**

Super-types:	<a href="#">DayWeekMonth</a> < <b>InstanceOfDayWithinMonth</b> (by extension)
Sub-types:	None

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

XML Instance Representation

```
<...>
  <com:_applicableDay> com:_DayEnum </com:_applicableDay> [0..7] ?
</...>
```



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

#### Schema Component Representation

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

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### Complex Type: **InternationalIdentifier**

Super-types: None  
Sub-types: None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: **MultilingualString**

Super-types: None  
Sub-types: None

Name MultilingualString  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: **MultilingualStringValue**

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

Name MultilingualStringValue  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: NamedArea

Super-types:	None
Sub-types:	None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: PayloadPublication

Super-types:	None
Sub-types:	None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: Period

Super-types:	None
Sub-types:	None

Name	Period
<u>Abstract</u>	no

Documentation

A continuous time period or a set of discontinuous time periods defined by the intersection of a set of criteria all within an overall delimiting interval.

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: PublicHoliday

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

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: Reference

Super-types:	None
Sub-types:	None

Name	Reference
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: Source

Super-types:	None
Sub-types:	None

Name	Source
<b>Abstract</b>	no
<b>Documentation</b>	Details of the source from which the information was obtained.

XML Instance Representation

```
<...>
  <com:sourceCountry> com:CountryCode </com:sourceCountry> [0..1] ?
  <com:sourceIdentification> com:String </com:sourceIdentification> [0..1] ?
  <com:sourceName> com:MultilingualString </com:sourceName> [0..1] ?
  <com:sourceType> com:_SourceTypeEnum </com:sourceType> [0..1] ?
  <com:reliable> com:Boolean </com:reliable> [0..1] ?
  <com:_sourceExtension> com:_ExtensionType </com:_sourceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Source">
  <xs:sequence>
    <xs:element name="sourceCountry" type="com:CountryCode" minOccurs="0" maxOccurs="1"/>
    <xs:element name="sourceIdentification" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="sourceName" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="sourceType" type="com:_SourceTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="reliable" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_sourceExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: **SpecialDay**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li>• <a href="#">PublicHoliday</a> (by extension)</li></ul>

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **TimePeriodOfDay**

Super-types:	None
Sub-types:	None

Name	TimePeriodOfDay
<b>Abstract</b>	no
<b>Documentation</b>	Specification of a continuous period of time within a 24 hour period.

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **VersionedReference**

Super-types:None

Sub-types:None

Name

VersionedReference

Abstract

no

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **Wind**

Super-types:None

Sub-types:None

Name

Wind

Abstract

no

Documentation

Wind conditions on the road.

XML Instance Representation

<...>  
  <com:windMeasurementHeight> com:MetresAsNonNegativeInteger </com:windMeasurementHeight> [0..1] ?  
  <com:windSpeed> com:WindSpeedValue </com:windSpeed> [0..1] ?  
  <com:maximumWindSpeed> com:WindSpeedValue </com:maximumWindSpeed> [0..1] ?  
  <com:windDirectionBearing> com:DirectionBearingValue </com:windDirectionBearing> [0..1] ?  
  <com:\_windExtension> com:\_ExtensionType </com:\_windExtension> [0..1]  
</...>

Schema Component Representation

<xs:complexType name="Wind">  
  <xs:sequence>  
    <xs:element name="windMeasurementHeight" type="com:MetresAsNonNegativeInteger" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="windSpeed" type="com:WindSpeedValue" minOccurs="0"/>  
    <xs:element name="maximumWindSpeed" type="com:WindSpeedValue" minOccurs="0"/>  
    <xs:element name="windDirectionBearing" type="com:DirectionBearingValue" minOccurs="0"/>  
    <xs:element name="\_windExtension" type="com:\_ExtensionType" minOccurs="0"/>  
  </xs:sequence>  
</xs:complexType>

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Complex Type: **WindSpeedValue**

Super-types:[DataValue](#) < WindSpeedValue (by extension)

Sub-types:None

Name

WindSpeedValue

Abstract

no

Documentation

A measured or calculated value of wind speed.

XML Instance Representation

<...>  
  <com: dataValueExtension> com:\_ExtensionType </com: dataValueExtension> [0..1]  
  <com:windSpeed> com:MetresPerSecond </com:windSpeed> [1] ?  
  <com:\_windSpeedValueExtension> com:\_ExtensionType </com:\_windSpeedValueExtension> [0..1]  
</...>

Schema Component Representation

<xs:complexType name="WindSpeedValue">  
  <xs:complexContent>  
    <xs:extension base="com:DataValue">  
      <xs:sequence>  
        <xs:element name="windSpeed" type="com:MetresPerSecond" minOccurs="1" maxOccurs="1"/>  
        <xs:element name="\_windSpeedValueExtension" type="com:\_ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>

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Complex Type: **\_CalendarWeekWithinMonthEnum**

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

Sub-types: None

Name \_CalendarWeekWithinMonthEnum

**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

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### 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>
```

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### Complex Type: \_DayEnum

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

Sub-types: None

Name \_DayEnum

**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: \_DayWeekMonthExtensionType

Super-types: None

Sub-types: None

Name \_DayWeekMonthExtensionType

**Abstract** no

#### XML Instance Representation

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

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

#### Schema Component Representation

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

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### Complex Type: **\_ExtensionType**

Super-types:	None
Sub-types:	None

Name	_ExtensionType
<b>Abstract</b>	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 < <a href="#">InformationDeliveryServicesEnum</a> (by restriction) < <a href="#">_InformationDeliveryServicesEnum</a> (by extension)
Sub-types:	None

Name	_InformationDeliveryServicesEnum
<b>Abstract</b>	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 < <a href="#">InformationStatusEnum</a> (by restriction) < <a href="#">_InformationStatusEnum</a> (by extension)
Sub-types:	None

Name	_InformationStatusEnum
<b>Abstract</b>	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: **\_InstanceOfDayEnum**

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

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: [\\_MonthOfYearEnum](#)

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

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: [\\_PeriodExtensionType](#)

Super-types: None  
Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [\\_PublicEventTypeEnum](#)

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

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

XML Instance Representation

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



```
com:PublicEventTypeEnum
</...>
```

#### Schema Component Representation

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

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### Complex Type: **\_SourceTypeEnum**

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

Sub-types: None

Name **\_SourceTypeEnum**

**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: **\_SpecialDayTypeEnum**

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

Sub-types: None

Name **\_SpecialDayTypeEnum**

**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: **\_TimePrecisionEnum**

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

Sub-types: None

Name **\_TimePrecisionEnum**

**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

## Simple Type: **AngleInDegrees**

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

**Sub-types:** None

**Name** AngleInDegrees

**Content**

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

**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>
```

## Simple Type: **Boolean**

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

**Sub-types:** None

**Name** Boolean

**Content**

- Base XSD Type: boolean

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

### Schema Component Representation

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

## Simple Type: **CalendarWeekWithinMonthEnum**

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

**Sub-types:**

- [CalendarWeekWithinMonthEnum](#) (by extension)

**Name** CalendarWeekWithinMonthEnum

**Content**

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

**Documentation** Calendar week within month (see ISO8601).

### Schema Component Representation

```
<xs:simpleType name="CalendarWeekWithinMonthEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="firstWeek"/>
    <xs:enumeration value="secondWeek"/>
    <xs:enumeration value="thirdWeek"/>
    <xs:enumeration value="fourthWeek"/>
    <xs:enumeration value="fifthWeek"/>
    <xs:enumeration value="sixthWeek"/>
    <xs:enumeration value="lastWeek"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

## 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}

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>
```

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Simple Type: **CountryCode**

Super-types:	<a href="#">xs:string</a> < <a href="#">String</a> (by restriction) < <b>CountryCode</b> (by restriction)
Sub-types:	None

Name	CountryCode
Content	<ul style="list-style-type: none"><li>Base XSD Type: string</li><li><i>length</i> &lt;= 1024</li><li><i>length</i> &lt;= 2</li></ul>
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:	<a href="#">xs:dateTime</a> < <b>DateTime</b> (by restriction)
Sub-types:	None

Name	DateTime
Content	<ul style="list-style-type: none"><li>Base XSD Type: dateTime</li></ul>
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>
```

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Simple Type: **DayEnum**

Super-types:	<a href="#">xs:string</a> < <b>DayEnum</b> (by restriction)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">_DayEnum</a> (by extension)</li></ul>

Name	DayEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: string</li><li><i>value</i> comes from list: {monday tuesday wednesday thursday friday saturday sunday _extended}</li></ul>
Documentation	Days of the week.

Schema Component Representation

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

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## Simple Type: **Float**

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

Sub-types:

- [MetresAsFloat](#) (by restriction)
- [MetresPerSecond](#) (by restriction)
- [Percentage](#) (by restriction)

Name Float

Content

- Base XSD Type: float

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

[top](#)

## Simple Type: **InstanceOfDayEnum**

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

Sub-types:

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

Name InstanceOfDayEnum

Content

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

Documentation Instances of a day of the week in a month

Schema Component Representation

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

[top](#)

Simple Type: **Integer**

Super-types:	<a href="#">xs:integer</a> < <b>Integer</b> (by restriction)
Sub-types:	None

Name	Integer
Content	<ul style="list-style-type: none"><li>Base XSD Type: integer</li></ul>
Documentation	An integer number whose value space is the set {-2147483648, -2147483647, -2147483646, ..., -2, -1, 0, 1, 2, ..., 2147483645, 2147483646, 2147483647}.

Schema Component Representation

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

[top](#)

Simple Type: **Language**

Super-types:	<a href="#">xs:language</a> < <b>Language</b> (by restriction)
Sub-types:	None

Name	Language
Content	<ul style="list-style-type: none"><li>Base XSD Type: language</li></ul>
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:	<a href="#">xs:string</a> < <b>LongString</b> (by restriction)
Sub-types:	None

Name	LongString
Content	<ul style="list-style-type: none"><li>Base XSD Type: string</li></ul>
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:	<a href="#">xs:float</a> < <a href="#">Float</a> (by restriction) < <b>MetresAsFloat</b> (by restriction)
Sub-types:	None

Name	MetresAsFloat
Content	<ul style="list-style-type: none"><li>Base XSD Type: float</li></ul>
Documentation	A measure of distance defined in metres in a floating point format.

Schema Component Representation

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

## Simple Type: **MetresAsNonNegativeInteger**

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

**Sub-types:** None

**Name** MetresAsNonNegativeInteger

**Content**

- Base XSD Type: nonNegativeInteger

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

### Schema Component Representation

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

## Simple Type: **MetresPerSecond**

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

**Sub-types:** None

**Name** MetresPerSecond

**Content**

- Base XSD Type: float

**Documentation** A measure of speed defined in metres per second.

### Schema Component Representation

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

## Simple Type: **MonthOfYearEnum**

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

**Sub-types:**

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

**Name** MonthOfYearEnum

**Content**

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

**Documentation** A list of the months of the year.

### Schema Component Representation

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

## 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:  
{agriculturalShow|airShow|artEvent|athleticsMeeting|commercialEvent|culturalEvent|ballGame|baseballGame|basketballGame|beerFestival|

Documentation Types of public events.

### Schema Component Representation

```
<xs:simpleType name="PublicEventTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="agriculturalShow"/>
    <xs:enumeration value="airShow"/>
    <xs:enumeration value="artEvent"/>
    <xs:enumeration value="athleticsMeeting"/>
    <xs:enumeration value="commercialEvent"/>
    <xs:enumeration value="culturalEvent"/>
    <xs:enumeration value="ballGame"/>
    <xs:enumeration value="baseballGame"/>
    <xs:enumeration value="basketballGame"/>
    <xs:enumeration value="beerFestival"/>
    <xs:enumeration value="bicycleRace"/>
    <xs:enumeration value="boatRace"/>
    <xs:enumeration value="boatShow"/>
    <xs:enumeration value="boxingTournament"/>
    <xs:enumeration value="bullFight"/>
    <xs:enumeration value="ceremonialEvent"/>
    <xs:enumeration value="concert"/>
    <xs:enumeration value="cricketMatch"/>
    <xs:enumeration value="exhibition"/>
    <xs:enumeration value="fair"/>
    <xs:enumeration value="festival"/>
    <xs:enumeration value="filmFestival"/>
    <xs:enumeration value="filmTVMaking"/>
    <xs:enumeration value="fireworkDisplay"/>
    <xs:enumeration value="flowerEvent"/>
    <xs:enumeration value="foodFestival"/>
    <xs:enumeration value="footballMatch"/>
    <xs:enumeration value="funfair"/>
    <xs:enumeration value="gardeningOrFlowerShow"/>
  </xs:restriction>
</xs:simpleType>
```

```

<xs:enumeration value="golfTournament"/>
<xs:enumeration value="hockeyGame"/>
<xs:enumeration value="horseRaceMeeting"/>
<xs:enumeration value="internationalSportsMeeting"/>
<xs:enumeration value="majorEvent"/>
<xs:enumeration value="marathon"/>
<xs:enumeration value="market"/>
<xs:enumeration value="match"/>
<xs:enumeration value="motorShow"/>
<xs:enumeration value="motorSportRaceMeeting"/>
<xs:enumeration value="openAirConcert"/>
<xs:enumeration value="parade"/>
<xs:enumeration value="procession"/>
<xs:enumeration value="raceMeeting"/>
<xs:enumeration value="rugbyMatch"/>
<xs:enumeration value="severalMajorEvents"/>
<xs:enumeration value="show"/>
<xs:enumeration value="showJumping"/>
<xs:enumeration value="soundAndLightShow"/>
<xs:enumeration value="sportsMeeting"/>
<xs:enumeration value="stateOccasion"/>
<xs:enumeration value="streetFestival"/>
<xs:enumeration value="tennisTournament"/>
<xs:enumeration value="theatricalEvent"/>
<xs:enumeration value="tournament"/>
<xs:enumeration value="tradeFair"/>
<xs:enumeration value="waterSportsMeeting"/>
<xs:enumeration value="wineFestival"/>
<xs:enumeration value="winterSportsMeeting"/>
<xs:enumeration value="unknown"/>
<xs:enumeration value="other"/>
<xs:enumeration value="_extended"/>
</xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: **SourceTypeEnum**

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

**Sub-types:**

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

**Name** SourceTypeEnum

**Content**

- Base XSD Type: string
- *value* comes from list:  
{*automobileClubPatrol*|*cameraObservation*|*freightVehicleOperator*|*inductionLoopMonitoringStation*|*infraredMonitoringStation*|*microwaveMonitoringStation*|*mobileTelephoneCaller*|*nonPoliceEmergencyServicePatrol*|*otherInformation*|*otherOfficialVehicle*|*policePatrol*|*privateBreakdownService*|*publicAndPrivateUtilities*|*registeredMotoristObserver*|*roadAuthorities*|*roadOperatorPatrol*|*roadsideTelephoneCaller*|*spotterAircraft*|*trafficMonitoringStation*|*transitOperator*|*vehicleProbeMeasurement*|*videoProcessingMonitoringStation*|*\_extended*}

**Documentation** Type of sources from which situation information may be derived.

### Schema Component Representation

```

<xs:simpleType name="SourceTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="automobileClubPatrol"/>
    <xs:enumeration value="cameraObservation"/>
    <xs:enumeration value="freightVehicleOperator"/>
    <xs:enumeration value="inductionLoopMonitoringStation"/>
    <xs:enumeration value="infraredMonitoringStation"/>
    <xs:enumeration value="microwaveMonitoringStation"/>
    <xs:enumeration value="mobileTelephoneCaller"/>
    <xs:enumeration value="nonPoliceEmergencyServicePatrol"/>
    <xs:enumeration value="otherInformation"/>
    <xs:enumeration value="otherOfficialVehicle"/>
    <xs:enumeration value="policePatrol"/>
    <xs:enumeration value="privateBreakdownService"/>
    <xs:enumeration value="publicAndPrivateUtilities"/>
    <xs:enumeration value="registeredMotoristObserver"/>
    <xs:enumeration value="roadAuthorities"/>
    <xs:enumeration value="roadOperatorPatrol"/>
    <xs:enumeration value="roadsideTelephoneCaller"/>
    <xs:enumeration value="spotterAircraft"/>
    <xs:enumeration value="trafficMonitoringStation"/>
    <xs:enumeration value="transitOperator"/>
    <xs:enumeration value="vehicleProbeMeasurement"/>
    <xs:enumeration value="videoProcessingMonitoringStation"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: **SpecialDayTypeEnum**

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

**Sub-types:**

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

**Name** SpecialDayTypeEnum

**Content**

- Base XSD Type: string
- *value* comes from list:  
{*dayBeforePublicHoliday*|*publicHoliday*|*dayFollowingPublicHoliday*|*longWeekendDay*|*inLieuOfPublicHoliday*|*schoolDay*|*schoolHolidays*|*publicHoliday*|*otherSpecialDay*|*\_extended*}

**Documentation** Collection of special types of days.



Schema Component Representation

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

[top](#)

Simple Type: **String**

Super-types:

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

Sub-types:

- [CountryCode](#) (by restriction)

Name	String
Content	<ul style="list-style-type: none"><li>Base XSD Type: string</li><li><i>length</i> &lt;= 1024</li></ul>
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: **Time**

Super-types:

[xs:time](#) < **Time** (by restriction)

Sub-types:

None

Name	Time
Content	<ul style="list-style-type: none"><li>Base XSD Type: time</li></ul>
Documentation	An instant of time that recurs every day. The value space of time is the space of time of day values as defined in § 5.3 of [ISO 8601]. Specifically, it is a set of zero-duration daily time instances.

Schema Component Representation

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

[top](#)

Simple Type: **TimePrecisionEnum**

Super-types:

[xs:string](#) < **TimePrecisionEnum** (by restriction)

Sub-types:

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

Name	TimePrecisionEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: string</li><li><i>value</i> comes from list: {<i>tenthsOfSecond</i> <i>second</i> <i>minute</i> <i>quarterHour</i> <i>halfHour</i> <i>hour</i> <i>_extended</i>}</li></ul>
Documentation	List of precisions to which times can be given.

Schema Component Representation

```
<xs:simpleType name="TimePrecisionEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="tenthsOfSecond"/>
    <xs:enumeration value="second"/>
    <xs:enumeration value="minute"/>
    <xs:enumeration value="quarterHour"/>
    <xs:enumeration value="halfHour"/>
    <xs:enumeration value="hour"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</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/locationExtension">http://datex2.eu/schema/3/locationExtension</a> (at DATEXII_3_LocationExtension.xsd)</li><li>◦ <a href="http://datex2.eu/schema/3/commonExtension">http://datex2.eu/schema/3/commonExtension</a> (at DATEXII_3_CommonExtension.xsd)</li><li>◦ <a href="http://datex2.eu/schema/3/parking">http://datex2.eu/schema/3/parking</a> (at DATEXII_3_Parking.xsd)</li><li>◦ <a href="http://datex2.eu/schema/3/roadTrafficData">http://datex2.eu/schema/3/roadTrafficData</a> (at DATEXII_3_RoadTrafficData.xsd)</li><li>◦ <a href="http://datex2.eu/schema/3/facilities">http://datex2.eu/schema/3/facilities</a> (at DATEXII_3_Facilities.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>
locx	<a href="http://datex2.eu/schema/3/locationExtension">http://datex2.eu/schema/3/locationExtension</a>
comx	<a href="http://datex2.eu/schema/3/commonExtension">http://datex2.eu/schema/3/commonExtension</a>
prk	<a href="http://datex2.eu/schema/3/parking">http://datex2.eu/schema/3/parking</a>
roa	<a href="http://datex2.eu/schema/3/roadTrafficData">http://datex2.eu/schema/3/roadTrafficData</a>
fac	<a href="http://datex2.eu/schema/3/facilities">http://datex2.eu/schema/3/facilities</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/locationExtension"
schemaLocation="DATEXII_3_LocationExtension.xsd"/>
```

```
<xs:import namespace="http://datex2.eu/schema/3/commonExtension"
schemaLocation="DATEXII_3_CommonExtension.xsd"/>
<xs:import namespace="http://datex2.eu/schema/3/parking"
schemaLocation="DATEXII_3_Parking.xsd"/>
<xs:import namespace="http://datex2.eu/schema/3/roadTrafficData"
schemaLocation="DATEXII_3_RoadTrafficData.xsd"/>
<xs:import namespace="http://datex2.eu/schema/3/facilities"
schemaLocation="DATEXII_3_Facilities.xsd"/>
<xs:import namespace="http://datex2.eu/schema/3/locationReferencing"
schemaLocation="DATEXII_3_LocationReferencing.xsd"/>
<xs:import namespace="http://datex2.eu/schema/3/common"
schemaLocation="DATEXII_3_Common.xsd"/>
...
</xs:schema>
```

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## Global Declarations

### Element: **payload**

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

#### XML Instance Representation

```
<d2:payload> com:PayloadPublication </d2:payload>
```

#### Schema Component Representation

```
<xs:element name="payload" type="com:PayloadPublication" />
```

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# DATEXII\_3\_Facilities

---

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- [Schema Document Properties](#)
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  - [Simple Type: TimeZone](#)

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## Schema Document Properties

<b>Target Namespace</b>	<a href="http://datex2.eu/schema/3/facilities">http://datex2.eu/schema/3/facilities</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/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>
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>
fac	<a href="http://datex2.eu/schema/3/facilities">http://datex2.eu/schema/3/facilities</a>

## Schema Component Representation

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

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## Global Definitions

### Simple Type: **TimeZone**

Super-types:	<a href="#">com:String</a> < <b>TimeZone</b> (by restriction)
Sub-types:	None

**Name** TimeZone

**Content**

- **'String' super type was not found in this schema. Its facets could not be printed out.**
- *pattern* = `[ -+ ] [ 0 - 9 ] [ 0 - 9 ] : [ 0 - 9 ] [ 0 - 9 ] Z`

**Documentation**

Identifies a time zone by specifying the difference to UTC in hours and minutes, as defined in ISO 8601.

**Schema Component Representation**

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

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# DATEXII\_3\_LocationExtension

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  - [Complex Type: Address](#)
  - [Complex Type: AddressLine](#)
  - [Complex Type: FacilityLocation](#)
  - [Complex Type: NamedAreaExtended](#)
  - [Complex Type: SupplementaryPositionalDescriptionExtended](#)
  - [Complex Type: AddressLineTypeEnum](#)
  - [Complex Type: HouseNumberSideEnum](#)
  - [Simple Type: AddressLineTypeEnum](#)
  - [Simple Type: HouseNumberSideEnum](#)
  - [Simple Type: NamedAreaCode](#)

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## Schema Document Properties

Target Namespace	<a href="http://datex2.eu/schema/3/locationExtension">http://datex2.eu/schema/3/locationExtension</a>
Version	3.3
Element and Attribute Namespaces	<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>
Schema Composition	<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/common">http://datex2.eu/schema/3/common</a> (at DATEXII_3_Common.xsd)</li><li>◦ <a href="http://datex2.eu/schema/3/facilities">http://datex2.eu/schema/3/facilities</a> (at DATEXII_3_Facilities.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>
com	<a href="http://datex2.eu/schema/3/common">http://datex2.eu/schema/3/common</a>
fac	<a href="http://datex2.eu/schema/3/facilities">http://datex2.eu/schema/3/facilities</a>
locx	<a href="http://datex2.eu/schema/3/locationExtension">http://datex2.eu/schema/3/locationExtension</a>

### Schema Component Representation

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

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## Global Definitions

### Complex Type: Address

Super-types:	None
Sub-types:	None

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

### XML Instance Representation

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

### Schema Component Representation

```

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

```

[top](#)

## Complex Type: AddressLine

Super-types: None

Sub-types: None

**Name** AddressLine

**Abstract** no

**Documentation** A class defining information concerning one line of a postal address.

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

[top](#)

## Complex Type: FacilityLocation

Super-types: None

Sub-types: None

**Name** FacilityLocation

**Abstract** no

**Documentation** A location for which a time zone and an address can be specified

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

[top](#)

## Complex Type: NamedAreaExtended

Super-types: None

Sub-types: None

**Name** NamedAreaExtended

**Abstract** no

## XML Instance Representation

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

## Schema Component Representation

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

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

Super-types: None

Sub-types: None

Name SupplementaryPositionalDescriptionExtended

**Abstract** no

Documentation Extension of class SupplementaryPositionalDescription.

## XML Instance Representation

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

## Schema Component Representation

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

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

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

Sub-types: None

Name \_AddressLineTypeEnum

**Abstract** no

## XML Instance Representation

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

## Schema Component Representation

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

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

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

Sub-types: None

Name \_HouseNumberSideEnum

**Abstract** no

## XML Instance Representation



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

#### Schema Component Representation

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

[top](#)

### Simple Type: AddressLineTypeEnum

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

Sub-types:

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

Name AddressLineTypeEnum

Content

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

Documentation A list of supported address line types.

#### Schema Component Representation

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

[top](#)

### Simple Type: HouseNumberSideEnum

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

Sub-types:

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

Name HouseNumberSideEnum

Content

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

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

#### Schema Component Representation

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

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### Simple Type: NamedAreaCode

Super-types: [com:String](#) < NamedAreaCode (by restriction)

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

**Name** NamedAreaCode

**Content**

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

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

#### Schema Component Representation

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

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# DATEXII\_3\_LocationReferencing

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## Schema Document Properties

**Target Namespace** <http://datex2.eu/schema/3/locationReferencing>

**Version** 3.3

### Element and Attribute Namespaces

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

### Schema Composition

- This schema imports schema(s) from the following namespace(s):
  - <http://datex2.eu/schema/3/common> (at DATEXII\_3\_Common.xsd)
  - <http://datex2.eu/schema/3/locationExtension> (at DATEXII\_3\_LocationExtension.xsd)

## Declared Namespaces

Prefix	Namespace
xml	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>

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

Schema Component Representation

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

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Global Definitions

Complex Type: **AlertCArea**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **AlertCDirection**

Super-types:	None
Sub-types:	None

Name	AlertCDirection
<u>Abstract</u>	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:	<ul style="list-style-type: none"><li><a href="#">AlertCLinearByCode</a> (by extension)</li><li><a href="#">AlertCMethod2Linear</a> (by extension)</li><li><a href="#">AlertCMethod4Linear</a> (by extension)</li></ul>

<b>Name</b>	AlertCLinear
<b><u>Abstract</u></b>	yes
<b>Documentation</b>	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>
```

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### Complex Type: AlertCLinearByCode

Super-types: [AlertCLinear](#) < AlertCLinearByCode (by extension)

Sub-types: None

<b>Name</b>	AlertCLinearByCode
<b><u>Abstract</u></b>	no
<b>Documentation</b>	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>
```

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### Complex Type: AlertCLocation

Super-types: None

Sub-types: None

<b>Name</b>	AlertCLocation
<b><u>Abstract</u></b>	no
<b>Documentation</b>	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>
```

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## 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: [AlertCPoint](#) < AlertCMethod2Point (by extension)  
Sub-types: None

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

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: AlertCMethod2PrimaryPointLocation

Super-types: None  
Sub-types: None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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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:	<a href="#">AlertCLinear</a> < AlertCMethod4Linear (by extension)
Sub-types:	None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: AlertCMethod4Point

Super-types:	<a href="#">AlertCPoint</a> < AlertCMethod4Point (by extension)
Sub-types:	None



<b>Name</b>	AlertCMethod4Point
<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 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

<b>Name</b>	AlertCMethod4PrimaryPointLocation
<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 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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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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

Name AltitudeConfidence

**Abstract** no

**Documentation** Evaluation of the altitude confidence assessed according to ETSI ISO 102894-2

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: AreaDestination

Super-types: [Destination](#) < AreaDestination (by extension)

Sub-types: None

Name AreaDestination

**Abstract** no

**Documentation** The specification of the destination of a defined route or itinerary which is an area.

### XML Instance Representation

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

### Schema Component Representation

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

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

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## Complex Type: **AreaLocation**

**Super-types:** [LocationReference](#) < [Location](#) (by extension) < **AreaLocation** (by extension)

**Sub-types:** None

**Name** AreaLocation

**Abstract** no

**Documentation** Location representing a geographic or geometric defined area which may be qualified by height information to provide additional geospatial discrimination (e.g. for snow in an area but only above a certain altitude).

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: **Carriageway**

**Super-types:** None

**Sub-types:** None

**Name** Carriageway

**Abstract** no

**Documentation** Supplementary positional information which details carriageway and lane locations. Several instances may exist where the element being described extends over more than one carriageway.

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: **Destination**

**Super-types:** None

**Sub-types:**

- [AreaDestination](#) (by extension)
- [PointDestination](#) (by extension)

**Name** Destination

**Abstract** yes

## XML Instance Representation

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

## Schema Component Representation

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

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

Super-types: None

Sub-types:

- [DistanceFromLinearElementReferent](#) (by extension)
- [DistanceFromLinearElementStart](#) (by extension)
- [PercentageDistanceAlongLinearElement](#) (by extension)

Name DistanceAlongLinearElement

**Abstract** yes

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

## XML Instance Representation

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

## Schema Component Representation

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

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

Super-types: [DistanceAlongLinearElement](#) < DistanceFromLinearElementReferent (by extension)

Sub-types: None

Name DistanceFromLinearElementReferent

**Abstract** no

**Documentation** Distance of a point along a linear element measured from a "from referent" on the linear element, in the sense relative to the linear element definition rather than the direction of traffic flow or optionally towards a "towards referent".

## XML Instance Representation

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

## Schema Component Representation

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

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

Super-types: [DistanceAlongLinearElement](#) < DistanceFromLinearElementStart (by extension)

Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: ExternalReferencing

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: GmlLineString

Super-types:	None
Sub-types:	<ul style="list-style-type: none"><li><a href="#">GmlLinearRing</a> (by extension)</li></ul>

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: GmlLinearRing

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

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

**XML Instance Representation**

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

**Schema Component Representation**

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

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**Complex Type: GmlMultiPolygon**

Super-types: None  
Sub-types: None

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

**XML Instance Representation**

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

**Schema Component Representation**

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

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**Complex Type: GmlPolygon**

Super-types: None  
Sub-types: None

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

**XML Instance Representation**

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

**Schema Component Representation**

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

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**Complex Type: HeightCoordinate**

Super-types:	None
Sub-types:	None

Name	HeightCoordinate
<b>Abstract</b>	no
Documentation	Third coordinate for points defined geodetically

XML Instance Representation

<pre>&lt;...&gt;   &lt;loc:heightValue&gt; com:MetresAsFloat &lt;/loc:heightValue&gt; [1] ?   &lt;loc:heightType&gt; loc:_HeightTypeEnum &lt;/loc:heightType&gt; [0..1] ?   &lt;loc:altitudeConfidence&gt; loc:AltitudeConfidence &lt;/loc:altitudeConfidence&gt; [0..1]   &lt;loc:verticalPositionAccuracy&gt; loc:PositionAccuracy &lt;/loc:verticalPositionAccuracy&gt; [0..1] ?   &lt;loc:_heightCoordinateExtension&gt; com:_ExtensionType &lt;/loc:_heightCoordinateExtension&gt; [0..1] &lt;/...&gt;</pre>
---

Schema Component Representation

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

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Complex Type: **IsoNamedArea**

Super-types:	NamedArea < <a href="#">NamedArea</a> (by extension) < <b>IsoNamedArea</b> (by extension)
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **Itinerary**

Super-types:	<a href="#">LocationReference</a> < <b>Itinerary</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">ItineraryByIndexedLocations</a> (by extension)</li><li><a href="#">ItineraryByReference</a> (by extension)</li></ul>

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

XML Instance Representation

<pre>&lt;...&gt;   &lt;loc:_locationReferenceExtension&gt; loc:_LocationReferenceExtensionType &lt;/loc:_locationReferenceExtension&gt; [0..1]   &lt;loc:routeDestination&gt; loc:Destination &lt;/loc:routeDestination&gt; [0..*] ?   &lt;loc:_itineraryExtension&gt; com:_ExtensionType &lt;/loc:_itineraryExtension&gt; [0..1] &lt;/...&gt;</pre>
--

Schema Component Representation

<pre>&lt;xs:complexType name="Itinerary" abstract="true"&gt;   &lt;xs:complexContent&gt;</pre>
--

```

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

```

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## Complex Type: **ItineraryByIndexedLocations**

Super-types: [LocationReference](#) < [Itinerary](#) (by extension) < **ItineraryByIndexedLocations** (by extension)

Sub-types: None

**Name** ItineraryByIndexedLocations

**Abstract** no

**Documentation** Multiple physically separate locations arranged as an ordered set that defines an itinerary or route. The index qualifier indicates the order.

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

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## Complex Type: **ItineraryByReference**

Super-types: [LocationReference](#) < [Itinerary](#) (by extension) < **ItineraryByReference** (by extension)

Sub-types: None

**Name** ItineraryByReference

**Abstract** no

**Documentation** Multiple (i.e. more than one) physically separate locations which are ordered that constitute an itinerary or route where they are defined by reference to a predefined itinerary.

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

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## Complex Type: **Lane**

Super-types: None

Sub-types: None

**Name** Lane

**Abstract** no



Documentation Indicates a specific lane or group of lanes.

XML Instance Representation

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

Schema Component Representation

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

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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>
```

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

**Schema Component Representation**

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

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

Super-types:	None
Sub-types:	None

**Name** LinearWithinLinearElement**Abstract**

no

**Documentation**

A linear section along a linear element where the linear element is either a part of or the whole of a linear object (i.e. a road), consistent with ISO 19148 definitions.

**XML Instance Representation**

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

**Schema Component Representation**

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

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

Super-types:	<a href="#">LocationReference</a> < <b>Location</b> (by extension)
Sub-types:	<ul style="list-style-type: none"><li>• <a href="#">AreaLocation</a> (by extension)</li><li>• <a href="#">LocationByReference</a> (by extension)</li><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>

**Name** Location**Abstract**

yes

**Documentation**

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

**XML Instance Representation**

```
<...>
```

```

<loc: locationReferenceExtension> loc: LocationReferenceExtensionType </loc: locationReferenceExtension> [0..1]
<loc:externalReferencing> loc:ExternalReferencing </loc:externalReferencing> [0..*]
<loc:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [0..1] ?
<loc:_locationExtension> com:_ExtensionType </loc:_locationExtension> [0..1]
</...>

```

#### Schema Component Representation

```

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

```

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### Complex Type: **LocationByReference**

Super-types: [LocationReference](#) < [Location](#) (by extension) < **LocationByReference** (by extension)

Sub-types: None

Name LocationByReference

**Abstract** no

Documentation A location defined by reference to a predefined location.

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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### Complex Type: **LocationGroup**

Super-types: [LocationReference](#) < **LocationGroup** (by extension)

Sub-types:

- [LocationGroupByList](#) (by extension)
- [LocationGroupByReference](#) (by extension)

Name LocationGroup

**Abstract** yes

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

#### XML Instance Representation

```

<...>
  <loc: locationReferenceExtension> loc: LocationReferenceExtensionType </loc: locationReferenceExtension> [0..1]
  <loc:_locationGroupExtension> com:_ExtensionType </loc:_locationGroupExtension> [0..1]
</...>

```

#### Schema Component Representation

```

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

```

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### Complex Type: **LocationGroupByList**

Super-types: [LocationReference](#) < [LocationGroup](#) (by extension) < **LocationGroupByList** (by extension)

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: LocationGroupByReference

Super-types:	<a href="#">LocationReference</a> < <a href="#">LocationGroup</a> (by extension) < <b>LocationGroupByReference</b> (by extension)
Sub-types:	None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: LocationReference

Super-types:	None
Sub-types:	<ul style="list-style-type: none"> <li>• <a href="#">Itinerary</a> (by extension)           <ul style="list-style-type: none"> <li>◦ <a href="#">ItineraryByIndexedLocations</a> (by extension)</li> <li>◦ <a href="#">ItineraryByReference</a> (by extension)</li> </ul> </li> <li>• <a href="#">Location</a> (by extension)           <ul style="list-style-type: none"> <li>◦ <a href="#">AreaLocation</a> (by extension)</li> <li>◦ <a href="#">LocationByReference</a> (by extension)</li> <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> <li>• <a href="#">LocationGroup</a> (by extension)           <ul style="list-style-type: none"> <li>◦ <a href="#">LocationGroupByList</a> (by extension)</li> <li>◦ <a href="#">LocationGroupByReference</a> (by extension)</li> </ul> </li> </ul>

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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## Complex Type: NamedArea

Super-types: NamedArea < **NamedArea** (by extension)

Sub-types:

- [IsoNamedArea](#) (by extension)
- [NamedArea](#) (by extension)
- [NutsNamedArea](#) (by extension)

Name NamedArea

**Abstract** no

**Documentation** An area defined by a name and/or in terms of known boundaries, such as country or county boundaries or allocated control area of particular authority. The attributes do not form a union; instead, the smallest intersection forms the resulting area.

#### XML Instance Representation

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

#### Schema Component Representation

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

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## Complex Type: NetworkLocation

Super-types: [LocationReference](#) < [Location](#) (by extension) < **NetworkLocation** (by extension)

Sub-types:

- [LinearLocation](#) (by extension)
  - [SingleRoadLinearLocation](#) (by extension)
- [PointLocation](#) (by extension)

Name NetworkLocation

**Abstract** yes

**Documentation** The specification of a location on a network (as a point or a linear location).

#### XML Instance Representation

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

#### Schema Component Representation

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

## Complex Type: NutsNamedArea

Super-types:	NamedArea < <a href="#">NamedArea</a> (by extension) < <b>NutsNamedArea</b> (by extension)
Sub-types:	None

**Name** NutsNamedArea

**Abstract** no

**Documentation** The NUTS-Code representation for the named area (Nomenclature of territorial units for statistics) or its LAU code representation (Local Administrative Unit).

### XML Instance Representation

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

### Schema Component Representation

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

## Complex Type: OffsetDistance

Super-types:	None
Sub-types:	None

**Name** OffsetDistance

**Abstract** no

**Documentation** The non-negative offset distance from the ALERT-C referenced point to the actual point.

### XML Instance Representation

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

### Schema Component Representation

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

## Complex Type: OpenlrAreaLocationReference

Super-types:	None
Sub-types:	<ul style="list-style-type: none"> <li>• <a href="#">OpenlrCircleLocationReference</a> (by extension)</li> <li>• <a href="#">OpenlrClosedLineLocationReference</a> (by extension)</li> <li>• <a href="#">OpenlrGridLocationReference</a> (by extension)</li> <li>• <a href="#">OpenlrPolygonLocationReference</a> (by extension)</li> <li>• <a href="#">OpenlrRectangleLocationReference</a> (by extension)</li> </ul>

**Name** OpenlrAreaLocationReference

**Abstract** yes

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

### XML Instance Representation

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

### Schema Component Representation

```

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

```

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## Complex Type: **OpenlrBasePointLocation**

Super-types: [OpenlrPointLocationReference](#) < **OpenlrBasePointLocation** (by extension)

Sub-types:

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

<b>Name</b>	OpenlrBasePointLocation
<b>Abstract</b>	yes
<b>Documentation</b>	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)

<b>Name</b>	OpenlrBaseReferencePoint
<b>Abstract</b>	yes
<b>Documentation</b>	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: **OpenlrCircleLocationReference**

Super-types: [OpenlrAreaLocationReference](#) < **OpenlrCircleLocationReference** (by extension)

Sub-types: None

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



#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: OpenlrClosedLineLocationReference

Super-types: [OpenlrAreaLocationReference](#) < OpenlrClosedLineLocationReference (by extension)

Sub-types: None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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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: **OpenlrGridLocationReference**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

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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

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: OpenlrPathAttributes

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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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

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

XML Instance Representation

```
<...>
```

```
<loc:openlrPointLocationReferenceExtension> com:_ExtensionType </loc:openlrPointLocationReferenceExtension>
[0..1]
<loc:openlrSideOfRoad> loc:_OpenlrSideOfRoadEnum </loc:openlrSideOfRoad> [1] ?
<loc:openlrOrientation> loc:_OpenlrOrientationEnum </loc:openlrOrientation> [1] ?
<loc:openlrLocationReferencePoint> loc:_OpenlrLocationReferencePoint </loc:openlrLocationReferencePoint> [1] ?
<loc:openlrLastLocationReferencePoint> loc:_OpenlrLastLocationReferencePoint
</loc:openlrLastLocationReferencePoint> [1] ?
<loc:openlrOffsets> loc:_OpenlrOffsets </loc:openlrOffsets> [0..1] ?
<loc:_openlrBasePointLocationExtension> com:_ExtensionType </loc:_openlrBasePointLocationExtension> [0..1]
<loc:_openlrCoordinates> loc:_PointCoordinates </loc:_openlrCoordinates> [1] ?
<loc:_openlrPoiWithAccessPointExtension> com:_ExtensionType </loc:_openlrPoiWithAccessPointExtension> [0..1]
</...>
```

Schema Component Representation

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

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Complex Type: **OpenlrPointAlongLine**

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

Name	OpenlrPointAlongLine
<b>Abstract</b>	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:	<ul style="list-style-type: none"><li><a href="#">OpenlrBasePointLocation</a> (by extension)<ul style="list-style-type: none"><li><a href="#">OpenlrPointAlongLine</a> (by extension)</li><li><a href="#">OpenlrPoiWithAccessPoint</a> (by extension)</li></ul></li><li><a href="#">OpenlrGeoCoordinate</a> (by extension)</li></ul>

Name	OpenlrPointLocationReference
<b>Abstract</b>	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>
```

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Complex Type: **OpenlrPolygonCorners**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **OpenlrPolygonLocationReference**

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

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **OpenlrRectangle**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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## Complex Type: [OpenlrRectangleLocationReference](#)

**Super-types:** [OpenlrAreaLocationReference](#) < [OpenlrRectangleLocationReference](#) (by extension)

**Sub-types:** None

**Name** OpenlrRectangleLocationReference

**Abstract** no

**Documentation** The openLR method of area definition by providing a rectangular shape defined by two geo-coordinate pairs

### XML Instance Representation

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

### Schema Component Representation

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

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## 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>
```

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## 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>

```

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## 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

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

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

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## Complex Type: **PointDestination**

Super-types: [Destination](#) < PointDestination (by extension)  
Sub-types: None

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

### XML Instance Representation

```

<...>

```



```

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

```

#### Schema Component Representation

```

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

```

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### Complex Type: **PointLocation**

Super-types: [LocationReference](#) < [Location](#) (by extension) < [NetworkLocation](#) (by extension) < [PointLocation](#) (by extension)

Sub-types: None

**Name** PointLocation

**Abstract** no

**Documentation** Location representing a single geospatial point.

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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### Complex Type: **PositionAccuracy**

Super-types: None

Sub-types: None

**Name** PositionAccuracy

**Abstract** no

**Documentation** Horizontal position accuracy parameters defined according to EN 16803-1

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

</xs:complexType>

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## Complex Type: **PositionConfidenceEllipse**

Super-types: None  
Sub-types: None

Name PositionConfidenceEllipse

Abstract no

Documentation Confidence ellipse position defined in a shape of ellipse with a predefined confidence level (e.g. 95 %). The centre of the ellipse shape corresponds to the reference position point for which the position accuracy is evaluated.

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: **Referent**

Super-types: None  
Sub-types: None

Name Referent

Abstract no

Documentation A referent on a linear object that has a known location such as a node, a reference marker (e.g. a marker-post), an intersection etc.

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: **RoadInformation**

Super-types: None  
Sub-types: None

Name RoadInformation

Abstract no

Documentation Information on a road

#### XML Instance Representation

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

#### Schema Component Representation

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

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

#### Schema Component Representation

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

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### Complex Type: SupplementaryPositionalDescription

**Super-types:** None

**Sub-types:** None

**Name** SupplementaryPositionalDescription

**Abstract** no

**Documentation** A collection of supplementary positional information which improves the precision of the location.

#### XML Instance Representation

```
<...
  locationPrecision="com:MetresAsNonNegativeInteger [0..1] ? ">
  <loc:directionPurpose> loc:DirectionPurposeEnum </loc:directionPurpose> [0..1] ?
  <loc:geographicDescriptor> loc:_GeographicCharacteristicEnum </loc:geographicDescriptor> [0..1] ?
  <loc:infrastructureDescriptor> loc:_InfrastructureDescriptorEnum </loc:infrastructureDescriptor> [0..1] ?
  <loc:lengthAffected> com:MetresAsFloat </loc:lengthAffected> [0..1] ?
  <loc:locationDescription> com:MultilingualString </loc:locationDescription> [0..1] ?
  <loc:positionOnCarriageway> loc:_RelativePositionOnCarriagewayEnum </loc:positionOnCarriageway> [0..1] ?
  <loc:sequentialRampNumber> com:NonNegativeInteger </loc:sequentialRampNumber> [0..1] ?
  <loc:carriageway> loc:Carriageway </loc:carriageway> [0..*]
  <loc:namedArea> loc:NamedArea </loc:namedArea> [0..1]
  </loc:supplementaryPositionalDescription>
```

```

<loc:roadInformation> loc:RoadInformation </loc:roadInformation> [0..*] ?
<loc:_supplementaryPositionalDescriptionExtension> loc:\_SupplementaryPositionalDescriptionExtensionType
</loc:_supplementaryPositionalDescriptionExtension> [0..1]
</...>

```

#### Schema Component Representation

```

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

```

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### Complex Type: [TpegAreaDescriptor](#)

Super-types: [TpegDescriptor](#) < [TpegAreaDescriptor](#) (by extension)

Sub-types: None

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

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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### Complex Type: [TpegAreaLocation](#)

Super-types: None

Sub-types:

- [TpegGeometricArea](#) (by extension)
- [TpegNamedOnlyArea](#) (by extension)

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

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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## Complex Type: TpegDescriptor

Super-types: None

Sub-types:

- [TpegAreaDescriptor](#) (by extension)
- [TpegPointDescriptor](#) (by extension)
  - [TpegJlcPointDescriptor](#) (by extension)
  - [TpegJunctionPointDescriptor](#) (by extension)
  - [TpegOtherPointDescriptor](#) (by extension)

Name TpegDescriptor

**Abstract** yes

**Documentation** A collection of information providing descriptive references to locations using the TPEG-Loc location referencing approach.

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: TpegFramedPoint

Super-types: [TpegPointLocation](#) < TpegFramedPoint (by extension)

Sub-types: None

Name TpegFramedPoint

**Abstract** no

**Documentation** A point on the road network which is framed between two other points on the same road.

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: TpegGeometricArea

Super-types: [TpegAreaLocation](#) < TpegGeometricArea (by extension)

Sub-types: None

Name TpegGeometricArea

**Abstract** no

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

### XML Instance Representation

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

```
<loc:name> loc:TpegAreaDescriptor </loc:name> [0..1] ?
<loc:_tpegGeometricAreaExtension> com:_ExtensionType </loc:_tpegGeometricAreaExtension> [0..1]
</...>
```

#### Schema Component Representation

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

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### Complex Type: TpegHeight

Super-types: None  
Sub-types: None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: TpegIlcPointDescriptor

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: TpegJunction

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

**Name** TpegJunction

<b>Abstract</b>	no
<b>Documentation</b>	A point on the road network which is a road junction point.

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: TpegJunctionPointDescriptor

Super-types:	<a href="#">TpegDescriptor</a> < <a href="#">TpegPointDescriptor</a> (by extension) < <b>TpegJunctionPointDescriptor</b> (by extension)
Sub-types:	None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: TpegLinearLocation

Super-types:	None
Sub-types:	None

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

#### XML Instance Representation

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

#### Schema Component Representation

```
<xs:complexType name="TpegLinearLocation">
  <xs:sequence>
    <xs:element name="tpegDirection" type="loc:_DirectionEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="tpegLinearLocationType" type="loc:_TpegLoc01LinearLocationSubtypeEnum" minOccurs="1"
maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
```



```

<xs:element name="to" type="loc:TpegPoint"/>
<xs:element name="from" type="loc:TpegPoint"/>
<xs:element name="_tpegLinearLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

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## Complex Type: TpegNamedOnlyArea

Super-types: [TpegAreaLocation](#) < TpegNamedOnlyArea (by extension)  
 Sub-types: None

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

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

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## Complex Type: TpegNonJunctionPoint

Super-types: [TpegPoint](#) < TpegNonJunctionPoint (by extension)  
 Sub-types: None

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

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

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## Complex Type: TpegOtherPointDescriptor

Super-types: [TpegDescriptor](#) < [TpegPointDescriptor](#) (by extension) < TpegOtherPointDescriptor (by extension)  
 Sub-types: None

Name TpegOtherPointDescriptor  
 Abstract no  
 Documentation General descriptor for describing a point.

### XML Instance Representation

```

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

```



```

<loc:tpegOtherPointDescriptorType> loc:_TpegLoc03OtherPointDescriptorSubtypeEnum
</loc:tpegOtherPointDescriptorType> [1] ?
<loc:_tpegOtherPointDescriptorExtension> com:_ExtensionType </loc:_tpegOtherPointDescriptorExtension> [0..1]
</...>

```

#### Schema Component Representation

```

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

```

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### Complex Type: TpegPoint

Super-types: None

Sub-types:

- [TpegJunction](#) (by extension)
- [TpegNonJunctionPoint](#) (by extension)

Name TpegPoint

**Abstract** yes

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

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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### Complex Type: TpegPointDescriptor

Super-types: [TpegDescriptor](#) < TpegPointDescriptor (by extension)

Sub-types:

- [TpegIliCPointDescriptor](#) (by extension)
- [TpegJunctionPointDescriptor](#) (by extension)
- [TpegOtherPointDescriptor](#) (by extension)

Name TpegPointDescriptor

**Abstract** yes

Documentation A descriptor for describing a point location.

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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### Complex Type: TpegPointLocation

Super-types: None

Sub-types:

- [TpegFramedPoint](#) (by extension)
- [TpegSimplePoint](#) (by extension)

Name TpegPointLocation

**Abstract** yes

## Documentation

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

## XML Instance Representation

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

## Schema Component Representation

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

[top](#)

## Complex Type: TpegSimplePoint

Super-types:	<a href="#">TpegPointLocation</a> < <b>TpegSimplePoint</b> (by extension)
Sub-types:	None

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

## XML Instance Representation

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

## Schema Component Representation

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

[top](#)

## Complex Type: \_AlertCDirectionEnum

Super-types:	xs:string < <a href="#">AlertCDirectionEnum</a> (by restriction) < <b>_AlertCDirectionEnum</b> (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 < <a href="#">AltitudeAccuracyEnum</a> (by restriction) < <b>_AltitudeAccuracyEnum</b> (by extension)
Sub-types:	None

Name	_AltitudeAccuracyEnum
Abstract	no

## XML Instance Representation

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

## Schema Component Representation

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

[top](#)

## Complex Type: **\_AreaPlacesEnum**

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

Name	_AreaPlacesEnum
<b>Abstract</b>	no

## XML Instance Representation

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

## Schema Component Representation

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

[top](#)

## Complex Type: **\_CarriagewayEnum**

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

Name	_CarriagewayEnum
<b>Abstract</b>	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:	<a href="#">xs:string</a> < <a href="#">DirectionEnum</a> (by restriction) < <b>_DirectionEnum</b> (by extension)
Sub-types:	None

Name	_DirectionEnum
<b>Abstract</b>	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:extension>  
  </xs:simpleContent>  
</xs:complexType>
```

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

[top](#)

## Complex Type: **\_DirectionPurposeEnum**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: **\_GeographicCharacteristicEnum**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: **\_HeightGradeEnum**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: **\_HeightTypeEnum**

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

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

Name	_HeightTypeEnum
<b>Abstract</b>	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>
```

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

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

Name	_InfrastructureDescriptorEnum
<b>Abstract</b>	no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

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

Super-types:	None
Sub-types:	None

Name	_IntermediatePointOnLinearElement
<b>Abstract</b>	no

#### XML Instance Representation

```
<...
  index="xs:int [1]">
    <loc:referent> loc:Referent </loc:referent> [1]
  </...>
```

#### Schema Component Representation

```
<xs:complexType name="_IntermediatePointOnLinearElement">
  <xs:sequence>
    <xs:element name="referent" type="loc:Referent" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="index" type="xs:int" use="required"/>
</xs:complexType>
```

[top](#)

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

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

Name	_LaneEnum
<b>Abstract</b>	no

#### XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **\_LinearDirectionEnum**

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

Name	<a href="#">_LinearDirectionEnum</a>
<b>Abstract</b>	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:	<a href="#">xs:string</a> < <a href="#">LinearElementNatureEnum</a> (by restriction) < <a href="#">_LinearElementNatureEnum</a> (by extension)
Sub-types:	None

Name	<a href="#">_LinearElementNatureEnum</a>
<b>Abstract</b>	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>
```

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Complex Type: **\_LocationContainedInItinerary**

Super-types:	None
Sub-types:	None

Name	<a href="#">_LocationContainedInItinerary</a>
<b>Abstract</b>	no

XML Instance Representation

```
<...
  index="xs:int [1]">
  <loc:location> loc:Location </loc:location> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_LocationContainedInItinerary">
  <xs:sequence>
    <xs:element name="location" type="loc:Location" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="index" type="xs:int" use="required"/>
</xs:complexType>
```

[top](#)

Complex Type: **\_LocationReferenceExtensionType**

Super-types:	None
Sub-types:	None

Name	_LocationReferenceExtensionType
<u>Abstract</u>	no

XML Instance Representation

```
<...>
  <loc:facilityLocation> locx:FacilityLocation </loc:facilityLocation> [0..1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_LocationReferenceExtensionType">
  <xs:sequence>
    <xs:element name="facilityLocation" type="locx:FacilityLocation" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

[top](#)

Complex Type: **\_NamedAreaExtensionType**

Super-types:	None
Sub-types:	None

Name	_NamedAreaExtensionType
<u>Abstract</u>	no

XML Instance Representation

```
<...>
  <loc:namedAreaExtended> locx:NamedAreaExtended </loc:namedAreaExtended> [0..1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_NamedAreaExtensionType">
  <xs:sequence>
    <xs:element name="namedAreaExtended" type="locx:NamedAreaExtended" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

[top](#)

Complex Type: **\_NamedAreaTypeEnum**

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

Name	_NamedAreaTypeEnum
<u>Abstract</u>	no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **\_NutsCodeTypeEnum**

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

Name	_NutsCodeTypeEnum
<u>Abstract</u>	no

XML Instance Representation

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

#### Schema Component Representation

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

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

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

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

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

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

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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



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

[top](#)

## Complex Type: **\_OpenlrSideOfRoadEnum**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

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## 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>
```

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## Complex Type: **\_PredefinedItineraryVersionedReference**

Super-types: [com:VersionedReference](#) < [\\_PredefinedItineraryVersionedReference](#) (by extension)  
Sub-types: None

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

### XML Instance Representation

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

### Schema Component Representation

```
<xs:complexType name="_PredefinedItineraryVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="loc:PredefinedItinerary"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

## Complex Type: **\_PredefinedLocationGroupVersionedReference**

Super-types: [com:VersionedReference](#) < [\\_PredefinedLocationGroupVersionedReference](#) (by extension)

Sub-types: None

Name `_PredefinedLocationGroupVersionedReference`  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

```
<xs:complexType name="_PredefinedLocationGroupVersionedReference">  
  <xs:complexContent>  
    <xs:extension base="com:VersionedReference">  
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="loc:PredefinedLocationGroup"/>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

[top](#)

### Complex Type: `_PredefinedLocationVersionedReference`

Super-types: [com:VersionedReference](#) < `_PredefinedLocationVersionedReference` (by extension)

Sub-types: None

Name `_PredefinedLocationVersionedReference`  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

```
<xs:complexType name="_PredefinedLocationVersionedReference">  
  <xs:complexContent>  
    <xs:extension base="com:VersionedReference">  
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="loc:PredefinedLocation"/>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

[top](#)

### Complex Type: `_ReferentTypeEnum`

Super-types: `xs:string` < [ReferentTypeEnum](#) (by restriction) < `_ReferentTypeEnum` (by extension)

Sub-types: None

Name `_ReferentTypeEnum`  
**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: `_RelativePositionOnCarriagewayEnum`

Super-types: `xs:string` < [RelativePositionOnCarriagewayEnum](#) (by restriction) < `_RelativePositionOnCarriagewayEnum` (by extension)

Sub-types: None

Name `_RelativePositionOnCarriagewayEnum`  
**Abstract** no

#### XML Instance Representation

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

```
loc:RelativePositionOnCarriagewayEnum
</...>
```

#### Schema Component Representation

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

[top](#)

### Complex Type: **\_SubdivisionTypeEnum**

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: **\_SupplementaryPositionalDescriptionExtensionType**

Super-types: None  
Sub-types: None

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

#### XML Instance Representation

```
<...>
  <loc:supplementaryPositionalDescriptionExtended> locx:SupplementaryPositionalDescriptionExtended
</loc:supplementaryPositionalDescriptionExtended> [0..1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

#### Schema Component Representation

```
<xs:complexType name="_SupplementaryPositionalDescriptionExtensionType">
  <xs:sequence>
    <xs:element name="supplementaryPositionalDescriptionExtended"
      type="loc:SupplementaryPositionalDescriptionExtended" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

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### Complex Type: **\_TpegLoc01AreaLocationSubtypeEnum**

Super-types: [xs:string](#) < [TpegLoc01AreaLocationSubtypeEnum](#) (by restriction) < [\\_TpegLoc01AreaLocationSubtypeEnum](#) (by extension)  
Sub-types: None

Name [\\_TpegLoc01AreaLocationSubtypeEnum](#)  
**Abstract** no

#### XML Instance Representation

```
<...
  _extendedValue="xs:string [0..1]">
  loc:TpegLoc01AreaLocationSubtypeEnum
</...>
```

#### Schema Component Representation

```
<xs:complexType name="_TpegLoc01AreaLocationSubtypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:TpegLoc01AreaLocationSubtypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
```

</xs:complexType>

[top](#)

## Complex Type: **\_TpegLoc01FramedPointLocationSubtypeEnum**

Super-types: [xs:string](#) < [\\_TpegLoc01FramedPointLocationSubtypeEnum](#) (by restriction) < [\\_TpegLoc01FramedPointLocationSubtypeEnum](#) (by extension)

Sub-types: None

Name [\\_TpegLoc01FramedPointLocationSubtypeEnum](#)

**Abstract** no

### XML Instance Representation

```
<...  
  _extendedValue="xs:string [0..1]">  
    loc:TpegLoc01FramedPointLocationSubtypeEnum  
  </...>
```

### Schema Component Representation

```
<xs:complexType name="_TpegLoc01FramedPointLocationSubtypeEnum">  
  <xs:simpleContent>  
    <xs:extension base="loc:TpegLoc01FramedPointLocationSubtypeEnum">  
      <xs:attribute name="_extendedValue" type="xs:string"/>  
    </xs:extension>  
  </xs:simpleContent>  
</xs:complexType>
```

[top](#)

## Complex Type: **\_TpegLoc01LinearLocationSubtypeEnum**

Super-types: [xs:string](#) < [\\_TpegLoc01LinearLocationSubtypeEnum](#) (by restriction) < [\\_TpegLoc01LinearLocationSubtypeEnum](#) (by extension)

Sub-types: None

Name [\\_TpegLoc01LinearLocationSubtypeEnum](#)

**Abstract** no

### XML Instance Representation

```
<...  
  _extendedValue="xs:string [0..1]">  
    loc:TpegLoc01LinearLocationSubtypeEnum  
  </...>
```

### Schema Component Representation

```
<xs:complexType name="_TpegLoc01LinearLocationSubtypeEnum">  
  <xs:simpleContent>  
    <xs:extension base="loc:TpegLoc01LinearLocationSubtypeEnum">  
      <xs:attribute name="_extendedValue" type="xs:string"/>  
    </xs:extension>  
  </xs:simpleContent>  
</xs:complexType>
```

[top](#)

## Complex Type: **\_TpegLoc01SimplePointLocationSubtypeEnum**

Super-types: [xs:string](#) < [\\_TpegLoc01SimplePointLocationSubtypeEnum](#) (by restriction) < [\\_TpegLoc01SimplePointLocationSubtypeEnum](#) (by extension)

Sub-types: None

Name [\\_TpegLoc01SimplePointLocationSubtypeEnum](#)

**Abstract** no

### XML Instance Representation

```
<...  
  _extendedValue="xs:string [0..1]">  
    loc:TpegLoc01SimplePointLocationSubtypeEnum  
  </...>
```

### Schema Component Representation

```
<xs:complexType name="_TpegLoc01SimplePointLocationSubtypeEnum">  
  <xs:simpleContent>  
    <xs:extension base="loc:TpegLoc01SimplePointLocationSubtypeEnum">  
      <xs:attribute name="_extendedValue" type="xs:string"/>  
    </xs:extension>  
  </xs:simpleContent>  
</xs:complexType>
```

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## Complex Type: **\_TpegLoc03AreaDescriptorSubtypeEnum**

Super-types: [xs:string](#) < [\\_TpegLoc03AreaDescriptorSubtypeEnum](#) (by restriction) < [\\_TpegLoc03AreaDescriptorSubtypeEnum](#) (by extension)

	extension)
Sub-types:	None

**Name** \_TpegLoc03AreaDescriptorSubtypeEnum

**Abstract** no

#### XML Instance Representation

```
<...
  _extendedValue="xs:string [0..1]">
    loc:TpegLoc03AreaDescriptorSubtypeEnum
  </...>
```

#### Schema Component Representation

```
<xs:complexType name="_TpegLoc03AreaDescriptorSubtypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:TpegLoc03AreaDescriptorSubtypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

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### Complex Type: **\_TpegLoc03IlcPointDescriptorSubtypeEnum**

Super-types:	<a href="#">xs:string</a> < <a href="#">TpegLoc03IlcPointDescriptorSubtypeEnum</a> (by restriction) < <a href="#">_TpegLoc03IlcPointDescriptorSubtypeEnum</a> (by extension)
Sub-types:	None

**Name** \_TpegLoc03IlcPointDescriptorSubtypeEnum

**Abstract** no

#### XML Instance Representation

```
<...
  _extendedValue="xs:string [0..1]">
    loc:TpegLoc03IlcPointDescriptorSubtypeEnum
  </...>
```

#### Schema Component Representation

```
<xs:complexType name="_TpegLoc03IlcPointDescriptorSubtypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:TpegLoc03IlcPointDescriptorSubtypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

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### Complex Type: **\_TpegLoc03JunctionPointDescriptorSubtypeEnum**

Super-types:	<a href="#">xs:string</a> < <a href="#">TpegLoc03JunctionPointDescriptorSubtypeEnum</a> (by restriction) < <a href="#">_TpegLoc03JunctionPointDescriptorSubtypeEnum</a> (by extension)
Sub-types:	None

**Name** \_TpegLoc03JunctionPointDescriptorSubtypeEnum

**Abstract** no

#### XML Instance Representation

```
<...
  _extendedValue="xs:string [0..1]">
    loc:TpegLoc03JunctionPointDescriptorSubtypeEnum
  </...>
```

#### Schema Component Representation

```
<xs:complexType name="_TpegLoc03JunctionPointDescriptorSubtypeEnum">
  <xs:simpleContent>
    <xs:extension base="loc:TpegLoc03JunctionPointDescriptorSubtypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

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### Complex Type: **\_TpegLoc03OtherPointDescriptorSubtypeEnum**

Super-types:	<a href="#">xs:string</a> < <a href="#">TpegLoc03OtherPointDescriptorSubtypeEnum</a> (by restriction) < <a href="#">_TpegLoc03OtherPointDescriptorSubtypeEnum</a> (by extension)
Sub-types:	None

**Name** \_TpegLoc03OtherPointDescriptorSubtypeEnum

**Abstract** no

#### XML Instance Representation

```
<...  
  _extendedValue="xs:string [0..1]">  
    loc:TpegLoc03OtherPointDescriptorSubtypeEnum  
</...>
```

#### Schema Component Representation

```
<xs:complexType name="_TpegLoc03OtherPointDescriptorSubtypeEnum">  
  <xs:simpleContent>  
    <xs:extension base="loc:TpegLoc03OtherPointDescriptorSubtypeEnum">  
      <xs:attribute name="_extendedValue" type="xs:string"/>  
    </xs:extension>  
  </xs:simpleContent>  
</xs:complexType>
```

[top](#)

### Complex Type: **\_TpegLoc04HeightTypeEnum**

Super-types: [xs:string](#) < [TpegLoc04HeightTypeEnum](#) (by restriction) < [\\_TpegLoc04HeightTypeEnum](#) (by extension)  
Sub-types: None

Name [\\_TpegLoc04HeightTypeEnum](#)  
**Abstract** no

#### XML Instance Representation

```
<...  
  _extendedValue="xs:string [0..1]">  
    loc:TpegLoc04HeightTypeEnum  
</...>
```

#### Schema Component Representation

```
<xs:complexType name="_TpegLoc04HeightTypeEnum">  
  <xs:simpleContent>  
    <xs:extension base="loc:TpegLoc04HeightTypeEnum">  
      <xs:attribute name="_extendedValue" type="xs:string"/>  
    </xs:extension>  
  </xs:simpleContent>  
</xs:complexType>
```

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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>
```

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### Simple Type: **AlertCLocationCode**

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

Name [AlertCLocationCode](#)  
Content

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

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

#### Schema Component Representation

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

## Simple Type: **AltitudeAccuracyEnum**

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

**Sub-types:**

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

**Name** AltitudeAccuracyEnum

**Content**

- Base XSD Type: string
- *value* comes from list:  
{'equalToOrLessThan1Centimetre'|'equalToOrLessThan2Centimetres'|'equalToOrLessThan5Centimetres'|'equalToOrLessThan10Centimetres'|'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>
```

## Simple Type: **AreaPlacesEnum**

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

**Sub-types:**

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

**Name** AreaPlacesEnum

**Content**

- Base XSD Type: string
- *value* comes from list:  
{'atBorders'|'atHighAltitudes'|'inBuiltUpAreas'|'inForestedAreas'|'inGalleries'|'inLowLyingAreas'|'inRuralAreas'|'inShadedAreas'|'inTheInnerCityAreas'|'inTunnels'|'onBridges'|'onDownhillSections'|'onElevatedSections'|'onEnteringOrLeavingTunnels'|'onFlyovers'|'onPasses'|'onUndergroundSections'|'onUnderpasses'|'\_extended'}

**Documentation** Type of area place(s)

### Schema Component Representation

```
<xs:simpleType name="AreaPlacesEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="atBorders"/>
    <xs:enumeration value="atHighAltitudes"/>
    <xs:enumeration value="inBuiltUpAreas"/>
    <xs:enumeration value="inForestedAreas"/>
    <xs:enumeration value="inGalleries"/>
    <xs:enumeration value="inLowLyingAreas"/>
    <xs:enumeration value="inRuralAreas"/>
    <xs:enumeration value="inShadedAreas"/>
    <xs:enumeration value="inTheInnerCityAreas"/>
    <xs:enumeration value="inTunnels"/>
    <xs:enumeration value="onBridges"/>
    <xs:enumeration value="onDownhillSections"/>
    <xs:enumeration value="onElevatedSections"/>
    <xs:enumeration value="onEnteringOrLeavingTunnels"/>
    <xs:enumeration value="onFlyovers"/>
    <xs:enumeration value="onPasses"/>
    <xs:enumeration value="onUndergroundSections"/>
    <xs:enumeration value="onUnderpasses"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

## Simple Type: **CarriagewayEnum**

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

**Sub-types:**

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

**Name** CarriagewayEnum

**Content**

- Base XSD Type: string

- *value* comes from list:  
{'connectingCarriageway'|'cycleTrack'|'entrySlipRoad'|'exitSlipRoad'|'flyover'|'footpath'|'leftHandFeederRoad'|'leftHandParallelCarriageway'|'mainCarriageway'|'oppositeCarriageway'|'parallelCarriageway'|'rightHandFeederRoad'|'rightHandParallelCarriageway'|'roundabout'|'serviceRoad'|'slipRoads'|'underpass'|'unspecifiedCarriageway'|'\_extended'}

**Documentation** List of descriptors identifying specific carriageway details.

#### Schema Component Representation

```
<xs:simpleType name="CarriagewayEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="connectingCarriageway"/>
    <xs:enumeration value="cycleTrack"/>
    <xs:enumeration value="entrySlipRoad"/>
    <xs:enumeration value="exitSlipRoad"/>
    <xs:enumeration value="flyover"/>
    <xs:enumeration value="footpath"/>
    <xs:enumeration value="leftHandFeederRoad"/>
    <xs:enumeration value="leftHandParallelCarriageway"/>
    <xs:enumeration value="mainCarriageway"/>
    <xs:enumeration value="oppositeCarriageway"/>
    <xs:enumeration value="parallelCarriageway"/>
    <xs:enumeration value="rightHandFeederRoad"/>
    <xs:enumeration value="rightHandParallelCarriageway"/>
    <xs:enumeration value="roundabout"/>
    <xs:enumeration value="serviceRoad"/>
    <xs:enumeration value="slipRoads"/>
    <xs:enumeration value="underpass"/>
    <xs:enumeration value="unspecifiedCarriageway"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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### 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'|'westBound'|'inboundTowardsTown'|'outboundFromTown'|'opposite'|'unknown'|'other'|'\_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>
```

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### Simple Type: DirectionPurposeEnum

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

*Sub-types:*

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

**Name** DirectionPurposeEnum

**Content**

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

**Documentation** Main purpose of a direction of a road

#### Schema Component Representation

```
<xs:simpleType name="DirectionPurposeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="inbound"/>
    <xs:enumeration value="outbound"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```



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

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## Simple Type: GeographicCharacteristicEnum

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

Sub-types:

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

Name GeographicCharacteristicEnum

Content

- Base XSD Type: string
- *value* comes from list: {'aroundABendInRoad'|'onBorder'|'onPass'|'overCrestOfHill'|'\_extended'}

Documentation Descriptor to help to identify a specific location.

### Schema Component Representation

```
<xs:simpleType name="GeographicCharacteristicEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="aroundABendInRoad"/>
    <xs:enumeration value="onBorder"/>
    <xs:enumeration value="onPass"/>
    <xs:enumeration value="overCrestOfHill"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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## 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>
```

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## 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>
```

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## Simple Type: HeightTypeEnum

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

Sub-types:

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

Name HeightTypeEnum

Content	<ul style="list-style-type: none"><li>Base XSD Type: string</li><li><i>value</i> comes from list: {'ellipsoidalHeight' 'gravityRelatedHeight' 'relativeHeight' '_extended'}</li></ul>
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>
```

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Simple Type: **InfrastructureDescriptorEnum**

Super-types:	<a href="#">xs:string</a> < <b>InfrastructureDescriptorEnum</b> (by restriction)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">_InfrastructureDescriptorEnum</a> (by extension)</li></ul>

Name	InfrastructureDescriptorEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: string</li><li><i>value</i> comes from list: {'atMotorwayInterchange' 'atRestArea' 'atServiceArea' 'atTollPlaza' 'atTunnelEntryOrExit' 'inGallery' 'inTunnel' 'onBridge' 'onConnector' 'onElevatedSe</li></ul>
Documentation	Descriptor identifying infrastructure to help to identify a specific location.

Schema Component Representation

```
<xs:simpleType name="InfrastructureDescriptorEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="atMotorwayInterchange"/>
    <xs:enumeration value="atRestArea"/>
    <xs:enumeration value="atServiceArea"/>
    <xs:enumeration value="atTollPlaza"/>
    <xs:enumeration value="atTunnelEntryOrExit"/>
    <xs:enumeration value="inGallery"/>
    <xs:enumeration value="inTunnel"/>
    <xs:enumeration value="onBridge"/>
    <xs:enumeration value="onConnector"/>
    <xs:enumeration value="onElevatedSection"/>
    <xs:enumeration value="onFlyover"/>
    <xs:enumeration value="onIceRoad"/>
    <xs:enumeration value="onLevelCrossing"/>
    <xs:enumeration value="onLinkRoad"/>
    <xs:enumeration value="onRoundabout"/>
    <xs:enumeration value="onTheRoadway"/>
    <xs:enumeration value="onUndergroundSection"/>
    <xs:enumeration value="onUnderpass"/>
    <xs:enumeration value="withinJunction"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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Simple Type: **LaneEnum**

Super-types:	<a href="#">xs:string</a> < <b>LaneEnum</b> (by restriction)
Sub-types:	<ul style="list-style-type: none"><li><a href="#">_LaneEnum</a> (by extension)</li></ul>

Name	LaneEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: string</li><li><i>value</i> comes from list: {'allLanesCompleteCarriageway' 'busLane' 'busStop' 'carPoolLane' 'centralReservation' 'crawlerLane' 'cycleLane' 'emergencyLane' 'escapeLane' 'exp</li></ul>
Documentation	List of descriptors identifying specific lanes.

Schema Component Representation

```
<xs:simpleType name="LaneEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="allLanesCompleteCarriageway"/>
    <xs:enumeration value="busLane"/>
    <xs:enumeration value="busStop"/>
    <xs:enumeration value="carPoolLane"/>
    <xs:enumeration value="centralReservation"/>
    <xs:enumeration value="crawlerLane"/>
    <xs:enumeration value="cycleLane"/>
    <xs:enumeration value="emergencyLane"/>
    <xs:enumeration value="escapeLane"/>
    <xs:enumeration value="expressLane"/>
    <xs:enumeration value="hardShoulder"/>
    <xs:enumeration value="heavyVehicleLane"/>
    <xs:enumeration value="layBy"/>
    <xs:enumeration value="leftHandTurningLane"/>
    <xs:enumeration value="leftLane"/>
    <xs:enumeration value="localTrafficLane"/>
    <xs:enumeration value="middleLane"/>
  </xs:restriction>
</xs:simpleType>
```

```
<xs:enumeration value="overtakingLane"/>
<xs:enumeration value="rightHandTurningLane"/>
<xs:enumeration value="rightLane"/>
<xs:enumeration value="rushHourLane"/>
<xs:enumeration value="setDownArea"/>
<xs:enumeration value="slowVehicleLane"/>
<xs:enumeration value="throughTrafficLane"/>
<xs:enumeration value="tidalFlowLane"/>
<xs:enumeration value="turningLane"/>
<xs:enumeration value="verge"/>
<xs:enumeration value="_extended"/>
</xs:restriction>
</xs:simpleType>
```

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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: **NamedAreaTypeEnum**

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

**Sub-types:**

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

**Name** NamedAreaTypeEnum

**Content**

- Base XSD Type: string
- *value* comes from list: {'applicationRegion'|'continent'|'country'|'countryGroup'|'carParkArea'|'carpoolArea'|'fuzzyArea'|'industrialArea'|'lake'|'meteorologicalArea'|'metropolitanArea'|'other'|'\_extended'}

**Documentation** Types of areas.

### Schema Component Representation

```
<xs:simpleType name="NamedAreaTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="applicationRegion"/>
    <xs:enumeration value="continent"/>
    <xs:enumeration value="country"/>
    <xs:enumeration value="countryGroup"/>
  </xs:restriction>
</xs:simpleType>
```

```

<xs:enumeration value="carParkArea"/>
<xs:enumeration value="carpoolArea"/>
<xs:enumeration value="fuzzyArea"/>
<xs:enumeration value="industrialArea"/>
<xs:enumeration value="lake"/>
<xs:enumeration value="meteorologicalArea"/>
<xs:enumeration value="metropolitanArea"/>
<xs:enumeration value="municipality"/>
<xs:enumeration value="parkAndRideSite"/>
<xs:enumeration value="ruralCounty"/>
<xs:enumeration value="sea"/>
<xs:enumeration value="touristArea"/>
<xs:enumeration value="trafficArea"/>
<xs:enumeration value="urbanCounty"/>
<xs:enumeration value="order1AdministrativeArea"/>
<xs:enumeration value="order2AdministrativeArea"/>
<xs:enumeration value="order3AdministrativeArea"/>
<xs:enumeration value="order4AdministrativeArea"/>
<xs:enumeration value="order5AdministrativeArea"/>
<xs:enumeration value="policeForceControlArea"/>
<xs:enumeration value="roadOperatorControlArea"/>
<xs:enumeration value="waterArea"/>
<xs:enumeration value="_extended"/>
</xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: **NutsCode**

Super-types: [com:String](#) < **NutsCode** (by restriction)

Sub-types: None

Name NutsCode

Content

- 'String' super type was not found in this schema. Its facets could not be printed out.
- length* <= 5

Documentation A NUTS code (Nomenclature of territorial units for statistics).

### Schema Component Representation

```

<xs:simpleType name="NutsCode">
  <xs:restriction base="com:String">
    <xs:maxLength value="5"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: **NutsCodeTypeEnum**

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

Sub-types:

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

Name NutsCodeTypeEnum

Content

- Base XSD Type: string
- value* comes from list: {'nuts1Code'|'nuts2Code'|'nuts3Code'|'lau1Code'|'lau2Code'|'\_extended'}

Documentation Types of NUTS codes (Nomenclature of territorial units for statistics) including LAU codes (Local Administrative Units).

### Schema Component Representation

```

<xs:simpleType name="NutsCodeTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="nuts1Code"/>
    <xs:enumeration value="nuts2Code"/>
    <xs:enumeration value="nuts3Code"/>
    <xs:enumeration value="lau1Code"/>
    <xs:enumeration value="lau2Code"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: **OpenIrFormOfWayEnum**

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

Sub-types:

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

Name OpenIrFormOfWayEnum

Content

- Base XSD Type: string
- value* comes from list: {undefined'|'motorway'|'multipleCarriageway'|'singleCarriageway'|'roundabout'|'slipRoad'|'trafficSquare'|'other'|'\_extended'}

Documentation Enumeration of for of way

Schema Component Representation

```
<xs:simpleType name="OpenlrFormOfWayEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="undefined"/>
    <xs:enumeration value="motorway"/>
    <xs:enumeration value="multipleCarriageway"/>
    <xs:enumeration value="singleCarriageway"/>
    <xs:enumeration value="roundabout"/>
    <xs:enumeration value="slipRoad"/>
    <xs:enumeration value="trafficSquare"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **OpenlrFunctionalRoadClassEnum**

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

Sub-types: 

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

Name	OpenlrFunctionalRoadClassEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: string</li><li><i>value</i> comes from list: {'frc0' 'frc1' 'frc2' 'frc3' 'frc4' 'frc5' 'frc6' 'frc7' '_extended'}</li></ul>
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	<ul style="list-style-type: none"><li>Base XSD Type: string</li><li><i>value</i> comes from list: {'noOrientationOrUnknown' 'withLineDirection' 'againstLineDirection' 'both' '_extended'}</li></ul>
Documentation	Enumeration of orientation

Schema Component Representation

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

[top](#)

Simple Type: **OpenlrSideOfRoadEnum**

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

Sub-types: 

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

Name	OpenlrSideOfRoadEnum
Content	<ul style="list-style-type: none"><li>Base XSD Type: string</li><li><i>value</i> comes from list: {'onRoadOrUnknown' 'right' 'left' 'both' '_extended'}</li></ul>
Documentation	Enumeration of side of road

Schema Component Representation

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

```

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

```

[top](#)

## Simple Type: **PositionConfidenceCodedErrorEnum**

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

**Sub-types:**

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

**Name** PositionConfidenceCodedErrorEnum

**Content**

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

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

### Schema Component Representation

```

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

```

[top](#)

## Simple Type: **ReferentTypeEnum**

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

**Sub-types:**

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

**Name** ReferentTypeEnum

**Content**

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

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

### Schema Component Representation

```

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

```

[top](#)

## Simple Type: **RelativePositionOnCarriagewayEnum**

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

**Sub-types:**

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

**Name** RelativePositionOnCarriagewayEnum

**Content**

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

**Documentation** Identifies a relative position across a carriageway

### Schema Component Representation

```

<xs:simpleType name="RelativePositionOnCarriagewayEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="inTheCentre"/>
    <xs:enumeration value="onTheLeft"/>
    <xs:enumeration value="onTheRight"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: SubdivisionCode

Super-types: [com:String](#) < SubdivisionCode (by restriction)

Sub-types: None

Name SubdivisionCode

Content

- 'String' super type was not found in this schema. Its facets could not be printed out.
- *length* <= 3

Documentation The second part of an ISO 3166-2 country sub-division code (up to 3 characters) which may be used along with a CountryCode to make a full ISO 3166-2 subdivision code.

### Schema Component Representation

```
<xs:simpleType name="SubdivisionCode">
  <xs:restriction base="com:String">
    <xs:maxLength value="3"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

## Simple Type: SubdivisionTypeEnum

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

Sub-types: 

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

Name SubdivisionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:  
{administrativeAtoll|administrativeRegion|administrativeTerritory|arcticRegion|autonomousCity|autonomousCityInNorthAfrica|autonomousComm

Documentation ISO 3166-2 subdivision types.

### Schema Component Representation

```
<xs:simpleType name="SubdivisionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="administrativeAtoll"/>
    <xs:enumeration value="administrativeRegion"/>
    <xs:enumeration value="administrativeTerritory"/>
    <xs:enumeration value="arcticRegion"/>
    <xs:enumeration value="autonomousCity"/>
    <xs:enumeration value="autonomousCityInNorthAfrica"/>
    <xs:enumeration value="autonomousCommunity"/>
    <xs:enumeration value="autonomousDistrict"/>
    <xs:enumeration value="autonomousProvince"/>
    <xs:enumeration value="autonomousRegion"/>
    <xs:enumeration value="canton"/>
    <xs:enumeration value="capitalCity"/>
    <xs:enumeration value="city"/>
    <xs:enumeration value="cityMunicipality"/>
    <xs:enumeration value="cityOfCountyRight"/>
    <xs:enumeration value="commune"/>
    <xs:enumeration value="councilArea"/>
    <xs:enumeration value="county"/>
    <xs:enumeration value="country"/>
    <xs:enumeration value="department"/>
    <xs:enumeration value="dependency"/>
    <xs:enumeration value="district"/>
    <xs:enumeration value="districtMunicipality"/>
    <xs:enumeration value="districtWithSpecialStatus"/>
    <xs:enumeration value="entity"/>
    <xs:enumeration value="geographicalEntity"/>
    <xs:enumeration value="governorate"/>
    <xs:enumeration value="laender"/>
    <xs:enumeration value="localCouncil"/>
    <xs:enumeration value="londonBorough"/>
    <xs:enumeration value="metropolitanArea"/>
    <xs:enumeration value="metropolitanDepartment"/>
    <xs:enumeration value="metropolitanDistrict"/>
    <xs:enumeration value="metropolitanRegion"/>
    <xs:enumeration value="municipality"/>
    <xs:enumeration value="overseasDepartment"/>
    <xs:enumeration value="overseasRegion"/>
    <xs:enumeration value="overseasTerritorialCollectivity"/>
    <xs:enumeration value="parish"/>
    <xs:enumeration value="province"/>
    <xs:enumeration value="quarter"/>
    <xs:enumeration value="region"/>
    <xs:enumeration value="republic"/>
    <xs:enumeration value="republicanCity"/>
    <xs:enumeration value="selfGovernedPart"/>
    <xs:enumeration value="specialMunicipality"/>
    <xs:enumeration value="state"/>
    <xs:enumeration value="territorialUnit"/>
    <xs:enumeration value="territory"/>
    <xs:enumeration value="twoTierCounty"/>
    <xs:enumeration value="unitaryAuthority"/>
    <xs:enumeration value="ward"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

### Simple Type: **TpegLoc01AreaLocationSubtypeEnum**

**Super-types:** [xs:string](#) < **TpegLoc01AreaLocationSubtypeEnum** (by restriction)

**Sub-types:**

- [\\_TpegLoc01AreaLocationSubtypeEnum](#) (by extension)

**Name** TpegLoc01AreaLocationSubtypeEnum

**Content**

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

**Documentation** Types of area.

#### Schema Component Representation

```
<xs:simpleType name="TpegLoc01AreaLocationSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="largeArea"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

### Simple Type: **TpegLoc01FramedPointLocationSubtypeEnum**

**Super-types:** [xs:string](#) < **TpegLoc01FramedPointLocationSubtypeEnum** (by restriction)

**Sub-types:**

- [\\_TpegLoc01FramedPointLocationSubtypeEnum](#) (by extension)

**Name** TpegLoc01FramedPointLocationSubtypeEnum

**Content**

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

**Documentation** Types of points on the road network framed by two other points on the same road.

#### Schema Component Representation

```
<xs:simpleType name="TpegLoc01FramedPointLocationSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="framedPoint"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

### Simple Type: **TpegLoc01LinearLocationSubtypeEnum**

**Super-types:** [xs:string](#) < **TpegLoc01LinearLocationSubtypeEnum** (by restriction)

**Sub-types:**

- [\\_TpegLoc01LinearLocationSubtypeEnum](#) (by extension)

**Name** TpegLoc01LinearLocationSubtypeEnum

**Content**

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

**Documentation** Types of linear location.

#### Schema Component Representation

```
<xs:simpleType name="TpegLoc01LinearLocationSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="segment"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

### Simple Type: **TpegLoc01SimplePointLocationSubtypeEnum**

**Super-types:** [xs:string](#) < **TpegLoc01SimplePointLocationSubtypeEnum** (by restriction)

**Sub-types:**

- [\\_TpegLoc01SimplePointLocationSubtypeEnum](#) (by extension)

**Name** TpegLoc01SimplePointLocationSubtypeEnum

**Content**

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

**Documentation** Types of simple point.

#### Schema Component Representation



```
<xs:simpleType name="TpegLoc01SimplePointLocationSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="intersection"/>
    <xs:enumeration value="nonLinkedPoint"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

## Simple Type: **TpegLoc03AreaDescriptorSubtypeEnum**

Super-types: [xs:string](#) < **TpegLoc03AreaDescriptorSubtypeEnum** (by restriction)

Sub-types:

- [\\_TpegLoc03AreaDescriptorSubtypeEnum](#) (by extension)

Name TpegLoc03AreaDescriptorSubtypeEnum

Content

- Base XSD Type: string
- *value* comes from list:  
{'administrativeAreaName'|'administrativeReferenceName'|'areaName'|'countyName'|'lakeName'|'nationName'|'policeForceControlAreaName'|'region

Documentation Descriptors for describing area locations.

### Schema Component Representation

```
<xs:simpleType name="TpegLoc03AreaDescriptorSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="administrativeAreaName"/>
    <xs:enumeration value="administrativeReferenceName"/>
    <xs:enumeration value="areaName"/>
    <xs:enumeration value="countyName"/>
    <xs:enumeration value="lakeName"/>
    <xs:enumeration value="nationName"/>
    <xs:enumeration value="policeForceControlAreaName"/>
    <xs:enumeration value="regionName"/>
    <xs:enumeration value="seaName"/>
    <xs:enumeration value="townName"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

## Simple Type: **TpegLoc03IlcPointDescriptorSubtypeEnum**

Super-types: [xs:string](#) < **TpegLoc03IlcPointDescriptorSubtypeEnum** (by restriction)

Sub-types:

- [\\_TpegLoc03IlcPointDescriptorSubtypeEnum](#) (by extension)

Name TpegLoc03IlcPointDescriptorSubtypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'tpegIlcName1'|'tpegIlcName2'|'tpegIlcName3'|'\_extended'}

Documentation Descriptors for describing a junction by identifying the intersecting roads at a road junction.

### Schema Component Representation

```
<xs:simpleType name="TpegLoc03IlcPointDescriptorSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="tpegIlcName1"/>
    <xs:enumeration value="tpegIlcName2"/>
    <xs:enumeration value="tpegIlcName3"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

## Simple Type: **TpegLoc03JunctionPointDescriptorSubtypeEnum**

Super-types: [xs:string](#) < **TpegLoc03JunctionPointDescriptorSubtypeEnum** (by restriction)

Sub-types:

- [\\_TpegLoc03JunctionPointDescriptorSubtypeEnum](#) (by extension)

Name TpegLoc03JunctionPointDescriptorSubtypeEnum

Content

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

Documentation Descriptors for describing a point at a road junction.

### Schema Component Representation

```
<xs:simpleType name="TpegLoc03JunctionPointDescriptorSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="junctionName"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

## Simple Type: **TpegLoc03OtherPointDescriptorSubtypeEnum**

**Super-types:** [xs:string](#) < **TpegLoc03OtherPointDescriptorSubtypeEnum** (by restriction)

**Sub-types:**

- [\\_TpegLoc03OtherPointDescriptorSubtypeEnum](#) (by extension)

**Name** TpegLoc03OtherPointDescriptorSubtypeEnum

**Content**

- Base XSD Type: string
- *value* comes from list:  
{'administrativeAreaName'|'administrativeReferenceName'|'airportName'|'areaName'|'buildingName'|'busStopIdentifier'|'busStopName'|'canalName'|'c

**Documentation** Descriptors other than junction names and road descriptors which can help to identify the location of points on the road network.

### Schema Component Representation

```
<xs:simpleType name="TpegLoc03OtherPointDescriptorSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="administrativeAreaName"/>
    <xs:enumeration value="administrativeReferenceName"/>
    <xs:enumeration value="airportName"/>
    <xs:enumeration value="areaName"/>
    <xs:enumeration value="buildingName"/>
    <xs:enumeration value="busStopIdentifier"/>
    <xs:enumeration value="busStopName"/>
    <xs:enumeration value="canalName"/>
    <xs:enumeration value="countyName"/>
    <xs:enumeration value="ferryPortName"/>
    <xs:enumeration value="intersectionName"/>
    <xs:enumeration value="lakeName"/>
    <xs:enumeration value="linkName"/>
    <xs:enumeration value="localLinkName"/>
    <xs:enumeration value="metroStationName"/>
    <xs:enumeration value="nationName"/>
    <xs:enumeration value="nonLinkedPointName"/>
    <xs:enumeration value="parkingFacilityName"/>
    <xs:enumeration value="pointName"/>
    <xs:enumeration value="pointOfInterestName"/>
    <xs:enumeration value="railwayStation"/>
    <xs:enumeration value="regionName"/>
    <xs:enumeration value="riverName"/>
    <xs:enumeration value="seaName"/>
    <xs:enumeration value="serviceAreaName"/>
    <xs:enumeration value="tidalRiverName"/>
    <xs:enumeration value="townName"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

## Simple Type: **TpegLoc04HeightTypeEnum**

**Super-types:** [xs:string](#) < **TpegLoc04HeightTypeEnum** (by restriction)

**Sub-types:**

- [\\_TpegLoc04HeightTypeEnum](#) (by extension)

**Name** TpegLoc04HeightTypeEnum

**Content**

- Base XSD Type: string
- *value* comes from list:  
{'above'|'aboveSeaLevel'|'aboveStreetLevel'|'at'|'atSeaLevel'|'atStreetLevel'|'below'|'belowSeaLevel'|'belowStreetLevel'|'undefined'|'unknown'|'other'|\_

**Documentation** Types of height.

### Schema Component Representation

```
<xs:simpleType name="TpegLoc04HeightTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="above"/>
    <xs:enumeration value="aboveSeaLevel"/>
    <xs:enumeration value="aboveStreetLevel"/>
    <xs:enumeration value="at"/>
    <xs:enumeration value="atSeaLevel"/>
    <xs:enumeration value="atStreetLevel"/>
    <xs:enumeration value="below"/>
    <xs:enumeration value="belowSeaLevel"/>
    <xs:enumeration value="belowStreetLevel"/>
    <xs:enumeration value="undefined"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

# DATEXII\_3\_Parking

---

## Table of Contents

- [Schema Document Properties](#)
- [Global Definitions](#)
  - [Complex Type: RoadInformationEnhanced](#)
  - [Complex Type: RoadTypeEnum](#)
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## Schema Document Properties

**Target Namespace** <http://datex2.eu/schema/3/parking>

**Version** 1

### Element and Attribute Namespaces

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

### Schema Composition

- This schema imports schema(s) from the following namespace(s):
  - <http://datex2.eu/schema/3/locationReferencing> (at DATEXII\_3\_LocationReferencing.xsd)
  - <http://datex2.eu/schema/3/facilities> (at DATEXII\_3\_Facilities.xsd)
  - <http://datex2.eu/schema/3/common> (at DATEXII\_3\_Common.xsd)
  - <http://datex2.eu/schema/3/roadTrafficData> (at DATEXII\_3\_RoadTrafficData.xsd)

## Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
loc	http://datex2.eu/schema/3/locationReferencing
fac	http://datex2.eu/schema/3/facilities
com	http://datex2.eu/schema/3/common
roa	http://datex2.eu/schema/3/roadTrafficData
prk	<a href="http://datex2.eu/schema/3/parking">http://datex2.eu/schema/3/parking</a>

## Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified"
version="1" targetNamespace="http://datex2.eu/schema/3/parking">
  <xs:import namespace="http://datex2.eu/schema/3/locationReferencing"
schemaLocation="DATEXII_3_LocationReferencing.xsd"/>
  <xs:import namespace="http://datex2.eu/schema/3/facilities"
schemaLocation="DATEXII_3_Facilities.xsd"/>
  <xs:import namespace="http://datex2.eu/schema/3/common"
schemaLocation="DATEXII_3_Common.xsd"/>
  <xs:import namespace="http://datex2.eu/schema/3/roadTrafficData"
schemaLocation="DATEXII_3_RoadTrafficData.xsd"/>
  ...
</xs:schema>
```

## Global Definitions

### Complex Type: **RoadInformationEnhanced**

Super-types: [loc:RoadInformation](#) < **RoadInformationEnhanced** (by extension)

Sub-types: None

**Name** RoadInformationEnhanced

**Abstract** no

**Documentation** Additional road information.

#### XML Instance Representation

```
<...>
  <!-- 'loc:RoadInformation' super type was not found in this schema. Some
  elements and attributes may be missing. -->
  <prk:typeOfRoad> prk:\_RoadTypeEnum </prk:typeOfRoad> [0..1] ?
  <prk:roadOrigination> com:MultilingualString </prk:roadOrigination> [0..*]
  ?
  <prk:_roadInformationEnhancedExtension> com:\_ExtensionType
  </prk:_roadInformationEnhancedExtension> [0..1]
</...>
```

#### Schema Component Representation

```
<xs:complexType name="RoadInformationEnhanced">
  <xs:complexContent>
    <xs:extension base="loc:RoadInformation">
      <xs:sequence>
        <xs:element name="typeOfRoad" type="prk:\_RoadTypeEnum"
          minOccurs="0" maxOccurs="1"/>
        <xs:element name="roadOrigination" type="com:MultilingualString"
          minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="_roadInformationEnhancedExtension"
          type="com:\_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

### Complex Type: **\_RoadTypeEnum**

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

Sub-types: None

**Name** \_RoadTypeEnum

**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

```
<xs:complexType name="_RoadTypeEnum">
  <xs:simpleContent>
    <xs:extension base="prk:RoadTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

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## Simple Type: RoadTypeEnum

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

*Sub-types:*

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

**Name**                      RoadTypeEnum

**Content**

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

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

### Schema Component Representation

```
<xs:simpleType name="RoadTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="motorway"/>
    <xs:enumeration value="trunkRoad"/>
    <xs:enumeration value="mainRoad"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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# DATEXII\_3\_RoadTrafficData

---

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## Schema Document Properties

<b>Target Namespace</b>	<a href="http://datex2.eu/schema/3/roadTrafficData">http://datex2.eu/schema/3/roadTrafficData</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/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>
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>
roa	<a href="http://datex2.eu/schema/3/roadTrafficData">http://datex2.eu/schema/3/roadTrafficData</a>

## Schema Component Representation

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

Super-types: None

Sub-types:

- [WeatherData](#) (by extension)
  - [WindInformation](#) (by extension)

**Name** BasicData

**Abstract** yes

**Documentation** Data that are either measured or calculated at the same time or over the same time period.

### XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
[0..1]
</...>
```

### Schema Component Representation

```
<xs:complexType name="BasicData" abstract="true">
  <xs:sequence>
    <xs:element name="measurementOrCalculationTime"
      type="roa:MeasurementOrCalculationTime" minOccurs="0"/>
    <xs:element name="_basicDataExtension" type="com:_ExtensionType"
      minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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## Complex Type: **ElaboratedDataPublication**

Super-types: [com:PayloadPublication](#) < **ElaboratedDataPublication** (by extension)

Sub-types: None

**Name** ElaboratedDataPublication

**Abstract** no

**Documentation** A publication containing one or more elaborated data sets.

### XML Instance Representation

```
<...>
  <!-- 'com:PayloadPublication' super type was not found in this schema.
Some elements and attributes may be missing. -->
  <roa:headerInformation> com:HeaderInformation </roa:headerInformation> [1]
  <roa:physicalQuantity> roa:PhysicalQuantity </roa:physicalQuantity> [1..*]
  <roa:informationManager> com:InternationalIdentifier
</roa:informationManager> [0..1] ?
  <roa:_elaboratedDataPublicationExtension> com:_ExtensionType
</roa:_elaboratedDataPublicationExtension> [0..1]
</...>
```

### Schema Component Representation

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

```

<xs:element name="headerInformation" type="com:HeaderInformation"/>
<xs:element name="physicalQuantity" type="roa:PhysicalQuantity"
maxOccurs="unbounded"/>
<xs:element name="informationManager"
type="com:InternationalIdentifier" minOccurs="0"/>
<xs:element name="_elaboratedDataPublicationExtension"
type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

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## Complex Type: MeasurementOrCalculationTime

Super-types: None

Sub-types: None

**Name** MeasurementOrCalculationTime

**Abstract** no

**Documentation** Describes the time at which a measured or calculated value or set of values was measured or calculated. It may be a future time at which a data value is predicted to apply.

### XML Instance Representation

```

<...
timePrecision="com:TimePrecisionEnum [0..1] ?">
  <roa:timeMeaning> roa:_TimeMeaningEnum </roa:timeMeaning> [0..1] ?
  <roa:timeValue> com:DateTime </roa:timeValue> [0..1] ?
  <roa:period> com:Period </roa:period> [0..1] ?
  <roa:_measurementOrCalculationTimeExtension> com:_ExtensionType
  </roa:_measurementOrCalculationTimeExtension> [0..1]
</...>

```

### Schema Component Representation

```

<xs:complexType name="MeasurementOrCalculationTime">
  <xs:sequence>
    <xs:element name="timeMeaning" type="roa:_TimeMeaningEnum" minOccurs="0"
maxOccurs="1"/>
    <xs:element name="timeValue" type="com:DateTime" minOccurs="0"
maxOccurs="1"/>
    <xs:element name="period" type="com:Period" minOccurs="0"/>
    <xs:element name="_measurementOrCalculationTimeExtension"
type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="timePrecision" type="com:TimePrecisionEnum"
use="optional"/>
</xs:complexType>

```

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## Complex Type: PhysicalQuantity

Super-types: None

Sub-types:

- [SinglePhysicalQuantity](#) (by extension)

**Name** PhysicalQuantity



<b>Abstract</b>	yes
<b>Documentation</b>	A measured or calculated physical quantity, with related properties explaining its context, meaning or status

#### XML Instance Representation

```
<...>
  <roa:pertinentLocation> loc:LocationReference </roa:pertinentLocation>
    [0..1] ?
  <roa:source> com:Source </roa:source> [0..1]
  <roa:_physicalQuantityExtension> com:_ExtensionType
  </roa:_physicalQuantityExtension> [0..1]
</...>
```

#### Schema Component Representation

```
<xs:complexType name="PhysicalQuantity" abstract="true">
  <xs:sequence>
    <xs:element name="pertinentLocation" type="loc:LocationReference"
      minOccurs="0"/>
    <xs:element name="source" type="com:Source" minOccurs="0"/>
    <xs:element name="_physicalQuantityExtension" type="com:_ExtensionType"
      minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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## Complex Type: **SinglePhysicalQuantity**

Super-types: [PhysicalQuantity](#) < **SinglePhysicalQuantity** (by extension)

Sub-types: None

<b>Name</b>	SinglePhysicalQuantity
<b>Abstract</b>	no
<b>Documentation</b>	A measured or calculated physical quantity at a single instant or period in time, with related properties explaining its context, meaning or status

#### XML Instance Representation

```
<...>
  <roa:pertinentLocation> loc:LocationReference </roa:pertinentLocation>
    [0..1] ?
  <roa:source> com:Source </roa:source> [0..1]
  <roa:_physicalQuantityExtension> com:_ExtensionType
  </roa:_physicalQuantityExtension> [0..1]
  <roa:basicData> roa:BasicData </roa:basicData> [0..1]
  <roa:_singlePhysicalQuantityExtension> com:_ExtensionType
  </roa:_singlePhysicalQuantityExtension> [0..1]
</...>
```

#### Schema Component Representation

```
<xs:complexType name="SinglePhysicalQuantity">
  <xs:complexContent>
    <xs:extension base="roa:PhysicalQuantity">
      <xs:sequence>
        <xs:element name="basicData" type="roa:BasicData" minOccurs="0"/>
        <xs:element name="_singlePhysicalQuantityExtension"
          type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
```

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

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## Complex Type: **WeatherData**

*Super-types:*        [BasicData](#) < **WeatherData** (by extension)

*Sub-types:*                        • [WindInformation](#) (by extension)

<b>Name</b>	WeatherData
<b><u>Abstract</u></b>	yes
<b>Documentation</b>	Measured or derived values relating to the weather at a specific location or locations.

### XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:_weatherDataExtension> com:_ExtensionType
</roa:_weatherDataExtension> [0..1]
</...>
```

### Schema Component Representation

```
<xs:complexType name="WeatherData" abstract="true">
  <xs:complexContent>
    <xs:extension base="roa:BasicData">
      <xs:sequence>
        <xs:element name="_weatherDataExtension" type="com:_ExtensionType"
          minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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## Complex Type: **WindInformation**

*Super-types:*        [BasicData](#) < [WeatherData](#) (by extension) < **WindInformation** (by extension)

*Sub-types:*                        None

<b>Name</b>	WindInformation
<b><u>Abstract</u></b>	no
<b>Documentation</b>	Measurements of wind conditions.

### XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:_weatherDataExtension> com:_ExtensionType
</roa:_weatherDataExtension> [0..1]
  <roa:wind> com:Wind </roa:wind> [1]
</...>
```

```

<roa:_windInformationExtension> com:_ExtensionType
</roa:_windInformationExtension> [0..1]
</...>

```

#### Schema Component Representation

```

<xs:complexType name="WindInformation">
  <xs:complexContent>
    <xs:extension base="roa:WeatherData">
      <xs:sequence>
        <xs:element name="wind" type="com:Wind"/>
        <xs:element name="_windInformationExtension"
          type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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## Complex Type: **\_TimeMeaningEnum**

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

**Sub-types:** None

**Name** **\_TimeMeaningEnum**

**Abstract** no

#### XML Instance Representation

```

<...
  _extendedValue="xs:string [0..1]">
    roa:TimeMeaningEnum
  </...>

```

#### Schema Component Representation

```

<xs:complexType name="_TimeMeaningEnum">
  <xs:simpleContent>
    <xs:extension base="roa:TimeMeaningEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

```

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## Simple Type: **TimeMeaningEnum**

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

**Sub-types:**

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

**Name** TimeMeaningEnum

**Content**

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

**Documentation** Explains the meaning of a specific time value with respect to a time period

## Schema Component Representation

```
<xs:simpleType name="TimeMeaningEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="beginTime"/>
    <xs:enumeration value="endTime"/>
    <xs:enumeration value="middleTime"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

---

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