

Realis ITS

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# DatexII 3.3 profile realiscounters-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	<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>
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

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

<i>Super-types:</i>	None
<i>Sub-types:</i>	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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## Schema Document Properties

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

### Element and Attribute Namespaces

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

### Schema Composition

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

## Declared Namespaces

Prefix	Namespace
xml	<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 <http://datex2.eu/schema/3/commonExtension>

com <http://datex2.eu/schema/3/common>

#### Schema Component Representation

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

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## Global Definitions

### Complex Type: **CalendarWeekWithinMonth**

Super-types: [DayWeekMonth](#) < **CalendarWeekWithinMonth** (by extension)

Sub-types: None

Name CalendarWeekWithinMonth

**Abstract** no

**Documentation** Specification of periods defined by relevant calendar weeks in a month, see ISO8601. Note: Calendar weeks start with Monday. First week is the week containing the first of the month.

#### XML Instance Representation

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

- [FloatingPointMetreDistanceValue](#) (by extension)
- [PercentageValue](#) (by extension)
- [SpeedValue](#) (by extension)
- [VehicleFlowValue](#) (by extension)

Name DataValue

**Abstract** yes

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

#### XML Instance Representation

```
<...>
  <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

<b>Abstract</b>	no
<b>Documentation</b>	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: FloatingPointMetreDistanceValue

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

<b>Name</b>	FloatingPointMetreDistanceValue
<b>Abstract</b>	no
<b>Documentation</b>	A measured or calculated value of distance in metres in a floating point format.

#### XML Instance Representation

```
<...>
  <com:dataValueExtension> com:ExtensionType </com:dataValueExtension> [0..1]
  <com:distance> com:MetresAsFloat </com:distance> [1] ?
  <com:_floatingPointMetreDistanceValueExtension> com:ExtensionType
  </com:_floatingPointMetreDistanceValueExtension> [0..1]
</...>
```

#### Schema Component Representation

```
<xs:complexType name="FloatingPointMetreDistanceValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="distance" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_floatingPointMetreDistanceValueExtension" 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

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

#### XML Instance Representation

```
<...>
  <com:confidentiality> com:ConfidentialityValueEnum </com:confidentiality> [0..1] ?
  <com:allowedDeliveryChannel> com:InformationDeliveryServicesEnum </com:allowedDeliveryChannel> [0..*] ?
  <com:informationStatus> com:InformationStatusEnum </com:informationStatus> [1] ?
  <com:_headerInformationExtension> com:ExtensionType </com:_headerInformationExtension> [0..1]
</...>
```

#### Schema Component Representation

```
<xs:complexType name="HeaderInformation">
  <xs:sequence>
    <xs:element name="confidentiality" type="com:ConfidentialityValueEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="allowedDeliveryChannel" type="com:InformationDeliveryServicesEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="informationStatus" type="com:InformationStatusEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_headerInformationExtension" type="com:ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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### Complex Type: InstanceOfDayWithinMonth

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

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: MultilingualString

Super-types:	None
Sub-types:	None

<b>Name</b>	MultilingualString
<b>Abstract</b>	no

#### XML Instance Representation

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

#### Schema Component Representation

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

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## Complex Type: MultilingualStringValue

Super-types: [xs:string](#) < [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" type="xs:language"/>  
  </xs:simpleContent>  
</xs:complexType>
```

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## Complex Type: NamedArea

Super-types: None  
Sub-types: None

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

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: PayloadPublication

Super-types: None  
Sub-types: None

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

### XML Instance Representation

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

### Schema Component Representation

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

## Complex Type: PercentageValue

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

**Name** PercentageValue  
**Abstract** no  
**Documentation** A measured or calculated value expressed as a percentage.

### XML Instance Representation

```
<...>
  <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
  <com:percentage> com:Percentage </com:percentage> [1] ?
  <com:_percentageValueExtension> com:_ExtensionType </com:_percentageValueExtension> [0..1]
</...>
```

### Schema Component Representation

```
<xs:complexType name="PercentageValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="percentage" type="com:Percentage" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_percentageValueExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

## Complex Type: Period

Super-types: None  
 Sub-types: None

**Name** Period  
**Abstract** no  
**Documentation** A continuous time period or a set of discontinuous time periods defined by the intersection of a set of criteria all within an overall delimiting interval.

### XML Instance Representation

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

### Schema Component Representation

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

## Complex Type: PublicHoliday

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

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

### XML Instance Representation

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

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

#### Schema Component Representation

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

[top](#)

#### Complex Type: Reference

Super-types: None  
Sub-types: None

Name Reference  
Abstract no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

#### Complex Type: Source

Super-types: None  
Sub-types: None

Name Source  
Abstract no  
Documentation 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>
```

[top](#)

#### Complex Type: SpecialDay

Super-types: None  
Sub-types: 

- [PublicHoliday](#) (by extension)

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

#### XML Instance Representation

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

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

#### Schema Component Representation

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

[top](#)

### Complex Type: SpeedValue

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

Sub-types: None

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

#### XML Instance Representation

```
<...>
  <com:dataValueExtension> com:_ExtensionType </com:dataValueExtension> [0..1]
  <com:speed> com:KilometresPerHour </com:speed> [1] ?
  <com:speedValueExtension> com:_ExtensionType </com:speedValueExtension> [0..1]
</...>
```

#### Schema Component Representation

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

[top](#)

### Complex Type: TimePeriodOfDay

Super-types: None

Sub-types: None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: VehicleCharacteristics

Super-types: None

Sub-types: None

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

#### XML Instance Representation

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

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

#### Schema Component Representation

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

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### Complex Type: **VehicleFlowValue**

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

Sub-types: None

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

#### XML Instance Representation

```
<...>
  <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
  <com:_vehicleFlowRate> com:VehiclesPerHour </com:_vehicleFlowRate> [1] ?
  <com:_vehicleFlowValueExtension> com:_ExtensionType </com:_vehicleFlowValueExtension> [0..1]
</...>
```

#### Schema Component Representation

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

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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: **\_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>
```

**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>
```

**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>
```

**Complex Type: \_DayWeekMonthExtensionType**

Super-types: None  
 Sub-types: None

Name [\\_DayWeekMonthExtensionType](#)  
 Abstract no

**XML Instance Representation**

```
<...>
  <com:dayWeekMonthExtended> com: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="com:DayWeekMonthExtended" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

**Complex Type: \_ExtensionType**

Super-types: None  
 Sub-types: None

Name [\\_ExtensionType](#)  
 Abstract no

## XML Instance Representation

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

## Schema Component Representation

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

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## Complex Type: InformationDeliveryServicesEnum

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

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

## XML Instance Representation

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

## Schema Component Representation

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

[top](#)

## Complex Type: InformationStatusEnum

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

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

## XML Instance Representation

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

## Schema Component Representation

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

[top](#)

## Complex Type: 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>
```



```
</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>
```

[top](#)

## 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>
```

[top](#)

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

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

Name [\\_SpecialDayTypeEnum](#)

**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

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

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### Complex Type: **\_VehicleTypeEnum**

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

Name [\\_VehicleTypeEnum](#)

**Abstract** no

#### XML Instance Representation

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

#### Schema Component Representation

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

```

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

```

[top](#)

## Simple Type: AngleInDegrees

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

**Name** AngleInDegrees  
**Content**

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

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

### Schema Component Representation

```

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

```

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## Simple Type: AxlesPerHour

Super-types: [xs:nonNegativeInteger](#) < [NonNegativeInteger](#) (by restriction) < **AxlesPerHour** (by restriction)  
 Sub-types: None

**Name** AxlesPerHour  
**Content**

- Base XSD Type: nonNegativeInteger

**Documentation** Vehicle axles per hour.

### Schema Component Representation

```

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

```

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## 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>

```

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## 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:restriction>
</xs:simpleType>

```

```

<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>

```

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## Simple Type: ConfidentialityValueEnum

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

Sub-types:

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

Name ConfidentialityValueEnum

Content

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

Documentation Values of confidentiality.

### Schema Component Representation

```

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

```

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## Simple Type: CountryCode

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

Sub-types: None

Name CountryCode

Content

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

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

### Schema Component Representation

```

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

```

[top](#)

## Simple Type: DateTime

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

Sub-types: None

Name DateTime

Content

- Base XSD Type: dateTime

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

### Schema Component Representation

```

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

```

[top](#)

## Simple Type: DayEnum

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

Sub-types:

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

<b>Name</b>	DayEnum
<b>Content</b>	<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>
<b>Documentation</b>	Days of the week.

#### Schema Component Representation

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

[top](#)

### Simple Type: Float

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

**Sub-types:**

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

<b>Name</b>	Float
<b>Content</b>	<ul style="list-style-type: none"> <li>• Base XSD Type: float</li> </ul>
<b>Documentation</b>	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>
```

[top](#)

### Simple Type: InformationDeliveryServicesEnum

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

**Sub-types:**

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

<b>Name</b>	InformationDeliveryServicesEnum
<b>Content</b>	<ul style="list-style-type: none"> <li>• Base XSD Type: string</li> <li>• <i>value</i> comes from list: {anyGeneralDeliveryService safetyServices vms '_extended'}</li> </ul>
<b>Documentation</b>	List of service channels or devices on which information or data exchanged can be delivered.

#### Schema Component Representation

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

[top](#)

### Simple Type: InformationStatusEnum

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

**Sub-types:**

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

<b>Name</b>	InformationStatusEnum
<b>Content</b>	<ul style="list-style-type: none"> <li>• Base XSD Type: string</li> <li>• <i>value</i> comes from list: {real securityExercise technicalExercise test '_extended'}</li> </ul>
<b>Documentation</b>	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: [xs:integer](#) < **Integer** (by restriction)

Sub-types: None

Name Integer

Content

- Base XSD Type: integer

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

### Schema Component Representation

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

[top](#)

## Simple Type: KilometresPerHour

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

Sub-types: None

Name KilometresPerHour

Content

- Base XSD Type: float

Documentation A measure of speed defined in kilometres per hour.

### Schema Component Representation

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

[top](#)

## Simple Type: Language

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

Sub-types: None

Name Language

Content

- Base XSD Type: language

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

## Schema Component Representation

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

[top](#)

## Simple Type: LongString

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

Sub-types: None

Name LongString

Content

- Base XSD Type: string

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

## Schema Component Representation

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

[top](#)

## Simple Type: MetresAsFloat

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

Sub-types: None

Name MetresAsFloat

Content

- Base XSD Type: float

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

## Schema Component Representation

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

[top](#)

## Simple Type: MetresAsNonNegativeInteger

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

Sub-types: None

Name MetresAsNonNegativeInteger

Content

- Base XSD Type: nonNegativeInteger

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

## Schema Component Representation

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

[top](#)

## Simple Type: MonthOfYearEnum

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

Sub-types:

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

Name MonthOfYearEnum

Content

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

Documentation A list of the months of the year.

## Schema Component Representation

```
<xs:simpleType name="MonthOfYearEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="january"/>
    <xs:enumeration value="february"/>
    <xs:enumeration value="march"/>
    <xs:enumeration value="april"/>
    <xs:enumeration value="may"/>
    <xs:enumeration value="june"/>
  </xs:restriction>
</xs:simpleType>
```

```
<xs:enumeration value="july"/>
<xs:enumeration value="august"/>
<xs:enumeration value="september"/>
<xs:enumeration value="october"/>
<xs:enumeration value="november"/>
<xs:enumeration value="december"/>
<xs:enumeration value="_extended"/>
</xs:restriction>
</xs:simpleType>
```

[top](#)

## Simple Type: **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)
- [AxlesPerHour](#) (by restriction)
- [MetresAsNonNegativeInteger](#) (by restriction)
- [VehiclesPerHour](#) (by restriction)

Name NonNegativeInteger

Content

- Base XSD Type: nonNegativeInteger

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

### Schema Component Representation

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

[top](#)

## Simple Type: **Percentage**

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

Sub-types: None

Name Percentage

Content

- Base XSD Type: float

Documentation A measure of percentage.

### Schema Component Representation

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

[top](#)

## Simple Type: **PublicEventTypeEnum**

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

Sub-types:

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

Name PublicEventTypeEnum

Content

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

Documentation Types of public events.



## Schema Component Representation

```
<xs:simpleType name="PublicEventTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="agriculturalShow"/>
    <xs:enumeration value="airShow"/>
    <xs:enumeration value="artEvent"/>
    <xs:enumeration value="athleticsMeeting"/>
    <xs:enumeration value="commercialEvent"/>
    <xs:enumeration value="culturalEvent"/>
    <xs:enumeration value="ballGame"/>
    <xs:enumeration value="baseballGame"/>
    <xs:enumeration value="basketballGame"/>
    <xs:enumeration value="beerFestival"/>
    <xs:enumeration value="bicycleRace"/>
    <xs:enumeration value="boatRace"/>
    <xs:enumeration value="boatShow"/>
    <xs:enumeration value="boxingTournament"/>
    <xs:enumeration value="bullFight"/>
    <xs:enumeration value="ceremonialEvent"/>
    <xs:enumeration value="concert"/>
    <xs:enumeration value="cricketMatch"/>
    <xs:enumeration value="exhibition"/>
    <xs:enumeration value="fair"/>
    <xs:enumeration value="festival"/>
    <xs:enumeration value="filmFestival"/>
    <xs:enumeration value="filmTVMaking"/>
    <xs:enumeration value="fireworkDisplay"/>
    <xs:enumeration value="flowerEvent"/>
    <xs:enumeration value="foodFestival"/>
    <xs:enumeration value="footballMatch"/>
    <xs:enumeration value="funfair"/>
    <xs:enumeration value="gardeningOrFlowerShow"/>
    <xs:enumeration value="golfTournament"/>
    <xs:enumeration value="hockeyGame"/>
    <xs:enumeration value="horseRaceMeeting"/>
    <xs:enumeration value="internationalSportsMeeting"/>
    <xs:enumeration value="majorEvent"/>
    <xs:enumeration value="marathon"/>
    <xs:enumeration value="market"/>
    <xs:enumeration value="match"/>
    <xs:enumeration value="motorShow"/>
    <xs:enumeration value="motorSportRaceMeeting"/>
    <xs:enumeration value="openAirConcert"/>
    <xs:enumeration value="parade"/>
    <xs:enumeration value="procession"/>
    <xs:enumeration value="raceMeeting"/>
    <xs:enumeration value="rugbyMatch"/>
    <xs:enumeration value="severalMajorEvents"/>
    <xs:enumeration value="show"/>
    <xs:enumeration value="showJumping"/>
    <xs:enumeration value="soundAndLightShow"/>
    <xs:enumeration value="sportsMeeting"/>
    <xs:enumeration value="stateOccasion"/>
    <xs:enumeration value="streetFestival"/>
    <xs:enumeration value="tennisTournament"/>
    <xs:enumeration value="theatricalEvent"/>
    <xs:enumeration value="tournament"/>
    <xs:enumeration value="tradeFair"/>
    <xs:enumeration value="waterSportsMeeting"/>
    <xs:enumeration value="wineFestival"/>
    <xs:enumeration value="winterSportsMeeting"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

## Simple Type: Seconds

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

**Name** Seconds  
**Content** • Base XSD Type: float  
**Documentation** Seconds.

### Schema Component Representation

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

[top](#)

## Simple Type: 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*|*publicEventDay*|*other*|*\_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**

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

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

#### Schema Component Representation

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

[top](#)

### Simple Type: **Time**

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

**Name** Time

**Content**

- Base XSD Type: time

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

#### Schema Component Representation

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

[top](#)

### Simple Type: TimePrecisionEnum

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

**Name** TimePrecisionEnum

**Content**

- Base XSD Type: string
- *value* comes from list: {'tenthsOfSecond'|'second'|'minute'|'quarterHour'|'halfHour'|'hour'|'\_extended'}

**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>
```

[top](#)

### Simple Type: Tonnes

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

**Name** Tonnes

**Content**

- Base XSD Type: float

**Documentation** A measure of weight defined in metric tonnes.

#### Schema Component Representation

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

[top](#)

### Simple Type: VehicleTypeEnum

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

**Name** VehicleTypeEnum

**Content**

- Base XSD Type: string
- *value* comes from list: {'anyVehicle'|'lorry'|'passengerCar'|'unknown'|'other'|'\_extended'}

**Documentation** Types of vehicle.

#### Schema Component Representation

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

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

[top](#)

### Simple Type: **VehiclesPerHour**

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

**Name** VehiclesPerHour  
**Content**

- Base XSD Type: nonNegativeInteger

**Documentation** Vehicles per hour.

#### Schema Component Representation

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

[top](#)

### Simple Type: **\_VehicleTypeEnumExtensionType**

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

**Name** \_VehicleTypeEnumExtensionType  
**Content**

- Base XSD Type: string

#### Schema Component Representation

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

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# DATEXII\_3\_D2Payload

---

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---

## Schema Document Properties

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

### XML Instance Representation

```

<d2:payload> com:PayloadPublication
  <!--
    Uniqueness Constraint - _payloadMeasurementSiteConstraint
    Selector - ../roa:measurementSite
    Field(s) - @id, @version
  -->
  <!--
    Uniqueness Constraint - _payloadMeasurementSiteTableConstraint
    Selector - ../roa:measurementSiteTable
    Field(s) - @id, @version
  -->
</d2:payload>

```

### Schema Component Representation

```

<xs:element name="payload" type="com:PayloadPublication">
  <xs:unique name="_payloadMeasurementSiteConstraint">
    <xs:selector xpath="../roa:measurementSite"/>
    <xs:field xpath="@id"/>
    <xs:field xpath="@version"/>
  </xs:unique>
  <xs:unique name="_payloadMeasurementSiteTableConstraint">
    <xs:selector xpath="../roa:measurementSiteTable"/>
    <xs:field xpath="@id"/>
    <xs:field xpath="@version"/>
  </xs:unique>
</xs:element>

```

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# DATEXII\_3\_Facilities

---

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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**

<i>Super-types:</i>	<a href="#">com:String</a> < <b>TimeZone</b> (by restriction)
<i>Sub-types:</i>	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>
```



# DATEXII\_3\_LocationExtension

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  - [Complex Type: NamedAreaExtended](#)
  - [Complex Type: SupplementaryPositionalDescriptionExtended](#)
  - [Complex Type: AddressLineTypeEnum](#)
  - [Complex Type: HouseNumberSideEnum](#)
  - [Simple Type: AddressLineTypeEnum](#)
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## Schema Document Properties

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

**Version** 3.3

### Element and Attribute Namespaces

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

### Schema Composition

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

## Declared Namespaces

Prefix	Namespace
xml	<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

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

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

```

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## Complex Type: AddressLine

Super-types:	None
Sub-types:	None

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

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

<b>Name</b>	NamedAreaExtended
<b>Abstract</b>	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>
```

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### Simple Type: HouseNumberSideEnum

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

Sub-types:

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

**Name** HouseNumberSideEnum

#### Content

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

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

#### Schema Component Representation

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

[top](#)

### Simple Type: NamedAreaCode

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

Sub-types: None

**Name** NamedAreaCode

**Content**

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

**Documentation**

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

#### Schema Component Representation

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

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# DATEXII\_3\_LocationReferencing

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  - [Complex Type: NamedArea](#)
  - [Complex Type: NetworkLocation](#)
  - [Complex Type: NutsNamedArea](#)
  - [Complex Type: OffsetDistance](#)
  - [Complex Type: OpenlrAreaLocationReference](#)
  - [Complex Type: OpenlrBasePointLocation](#)
  - [Complex Type: OpenlrBaseReferencePoint](#)
  - [Complex Type: OpenlrCircleLocationReference](#)
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  - [Complex Type: OpenlrGridLocationReference](#)
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  - [Complex Type: OpenlrLineAttributes](#)
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  - [Complex Type: PercentageDistanceAlongLinearElement](#)
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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  
**Abstract** no  
**Documentation** An area defined by reference to a predefined ALERT-C location table.

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: AlertCDirection

Super-types:	None
Sub-types:	None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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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>Abstract</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>Abstract</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>Abstract</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: [AlertCLinear](#) < AlertCMethod4Linear (by extension)  
Sub-types: None

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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### Complex Type: AlertCMethod4Point

Super-types: [AlertCPoint](#) < 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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: ExternalReferencing

Super-types:	None
Sub-types:	None

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: GmlLinearRing



Super-types: [GmlLinearString](#) < **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:_gmlLinearStringExtension> com:_ExtensionType </loc:_gmlLinearStringExtension> [0..1]  
  <loc:_gmlLinearRingExtension> com:_ExtensionType </loc:_gmlLinearRingExtension> [0..1]  
</...>
```

#### Schema Component Representation

```
<xs:complexType name="GmlLinearRing">  
  <xs:complexContent>  
    <xs:extension base="loc:GmlLinearString">  
      <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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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## Complex Type: **isoNamedArea**

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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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>

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

#### XML Instance Representation

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

#### Schema Component Representation

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

```

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

```

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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

**XML Instance Representation**

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

**Schema Component Representation**

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

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

Super-types: None

Sub-types:

- [LinearElementByCode](#) (by extension)
- [LinearElementByLineString](#) (by extension)
- [LinearElementByPoints](#) (by extension)

Name LinearElement

Abstract no

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

**XML Instance Representation**

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

**Schema Component Representation**

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

[top](#)**Complex Type: LinearElementByCode**Super-types: [LinearElement](#) < LinearElementByCode (by extension)

Sub-types: None

Name LinearElementByCode

Abstract no

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

**XML Instance Representation**

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

**Schema Component Representation**

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

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

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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: [LocationReference](#) < **Location** (by extension)

Sub-types:

- [AreaLocation](#) (by extension)
- [LocationByReference](#) (by extension)
- [NetworkLocation](#) (by extension)
  - [LinearLocation](#) (by extension)
    - [SingleRoadLinearLocation](#) (by extension)
  - [PointLocation](#) (by extension)

**Name** Location**Abstract**

yes

**Documentation**

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

**XML Instance Representation**

```

<...>

```

```

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

```

#### Schema Component Representation

```

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

```

[top](#)

### Complex Type: LocationByReference

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

Sub-types: None

**Name** LocationByReference

**Abstract** no

**Documentation** A location defined by reference to a predefined location.

#### XML Instance Representation

```

<...>
<loc:locationReferenceExtension> loc:LocationReferenceExtensionType </loc:locationReferenceExtension> [0..1]
<loc:externalReferencing> loc:ExternalReferencing </loc:externalReferencing> [0..*]
<loc:coordinatesForDisplay> loc:PointCoordinates </loc:coordinatesForDisplay> [0..1] ?
<loc:locationExtension> com:ExtensionType </loc:locationExtension> [0..1]
<loc:predefinedLocationReference> loc:PredefinedLocationVersionedReference </loc:predefinedLocationReference> [1]
?
<loc:locationByReferenceExtension> com:ExtensionType </loc:locationByReferenceExtension> [0..1]
</...>

```

#### Schema Component Representation

```

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

```

[top](#)

### Complex Type: LocationGroup

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

Sub-types:

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

**Name** LocationGroup

**Abstract** yes

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

#### XML Instance Representation

```

<...>
<loc:locationReferenceExtension> loc:LocationReferenceExtensionType </loc:locationReferenceExtension> [0..1]
<loc:locationGroupExtension> com:ExtensionType </loc:locationGroupExtension> [0..1]
</...>

```

#### Schema Component Representation

```

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

```

[top](#)

### Complex Type: LocationGroupByList

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

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

<b>Name</b>	LocationGroupByList
<b>Abstract</b>	no
<b>Documentation</b>	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) < <a href="#">LocationGroupByReference</a> (by extension)
Sub-types:	None

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

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

#### XML Instance Representation



```
<...>
  <loc:_locationReferenceExtension> 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)

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

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

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## Complex Type: OpenlrBaseReferencePoint

Super-types: None

Sub-types:

- [OpenlrLastLocationReferencePoint](#) (by extension)
- [OpenlrLocationReferencePoint](#) (by extension)

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

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

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## Complex Type: OpenlrCircleLocationReference

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

Sub-types: None

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

### XML Instance Representation

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

### Schema Component Representation

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

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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: [OpenlrPointLocationReference](#) < [OpenlrBasePointLocation](#) (by extension) < [OpenlrPoiWithAccessPoint](#) (by extension)  
Sub-types: None

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

### XML Instance Representation

```
<...>
```

```

<loc:openlrPointLocationReferenceExtension> com: _ExtensionType </loc:openlrPointLocationReferenceExtension>
[0..1]
<loc:openlrSideOfRoad> loc: _OpenlrSideOfRoadEnum </loc:openlrSideOfRoad> [1] ?
<loc:openlrOrientation> loc: _OpenlrOrientationEnum </loc:openlrOrientation> [1] ?
<loc:openlrLocationReferencePoint> loc: _OpenlrLocationReferencePoint </loc:openlrLocationReferencePoint> [1] ?
<loc:openlrLastLocationReferencePoint> loc: _OpenlrLastLocationReferencePoint
</loc:openlrLastLocationReferencePoint> [1] ?
<loc:openlrOffsets> loc: _OpenlrOffsets </loc:openlrOffsets> [0..1] ?
<loc:openlrBasePointLocationExtension> com: _ExtensionType </loc:openlrBasePointLocationExtension> [0..1]
<loc:openlrCoordinates> loc: _PointCoordinates </loc:openlrCoordinates> [1] ?
<loc:openlrPoiWithAccessPointExtension> com: _ExtensionType </loc:openlrPoiWithAccessPointExtension> [0..1]
</...>

```

#### Schema Component Representation

```

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

```

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### Complex Type: OpenlrPointAlongLine

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

Sub-types: None

**Name** OpenlrPointAlongLine

**Abstract** no

**Documentation** Point along a line

#### XML Instance Representation

```

<...>
<loc:openlrPointLocationReferenceExtension> com: _ExtensionType </loc:openlrPointLocationReferenceExtension>
[0..1]
<loc:openlrSideOfRoad> loc: _OpenlrSideOfRoadEnum </loc:openlrSideOfRoad> [1] ?
<loc:openlrOrientation> loc: _OpenlrOrientationEnum </loc:openlrOrientation> [1] ?
<loc:openlrLocationReferencePoint> loc: _OpenlrLocationReferencePoint </loc:openlrLocationReferencePoint> [1] ?
<loc:openlrLastLocationReferencePoint> loc: _OpenlrLastLocationReferencePoint
</loc:openlrLastLocationReferencePoint> [1] ?
<loc:openlrOffsets> loc: _OpenlrOffsets </loc:openlrOffsets> [0..1] ?
<loc:openlrBasePointLocationExtension> com: _ExtensionType </loc:openlrBasePointLocationExtension> [0..1]
<loc:openlrPointAlongLineExtension> com: _ExtensionType </loc:openlrPointAlongLineExtension> [0..1]
</...>

```

#### Schema Component Representation

```

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

```

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### Complex Type: OpenlrPointLocationReference

Super-types: None

Sub-types:

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

**Name** OpenlrPointLocationReference

**Abstract** yes

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

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

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## Complex Type: **OpenlrPolygonCorners**

Super-types: None  
Sub-types: None

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

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: **OpenlrPolygonLocationReference**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

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## Complex Type: **OpenlrRectangle**

Super-types: None  
Sub-types: None

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

### XML Instance Representation

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

### Schema Component Representation

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

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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: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:	<ul style="list-style-type: none"><li>• <a href="#">TpegAreaDescriptor</a> (by extension)</li><li>• <a href="#">TpegPointDescriptor</a> (by extension)<ul style="list-style-type: none"><li>◦ <a href="#">TpegJlcPointDescriptor</a> (by extension)</li><li>◦ <a href="#">TpegJunctionPointDescriptor</a> (by extension)</li><li>◦ <a href="#">TpegOtherPointDescriptor</a> (by extension)</li></ul></li></ul>

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:	<a href="#">TpegPointLocation</a> < 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:	<a href="#">TpegAreaLocation</a> < 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

<b>Name</b>	TpegHeight
<b>Abstract</b>	no
<b>Documentation</b>	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:	<a href="#">TpegDescriptor</a> < <a href="#">TpegPointDescriptor</a> (by extension) < <a href="#">TpegIlcPointDescriptor</a> (by extension)
Sub-types:	None

<b>Name</b>	TpegIlcPointDescriptor
<b>Abstract</b>	no
<b>Documentation</b>	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:	<a href="#">TpegPoint</a> < <a href="#">TpegJunction</a> (by extension)
Sub-types:	None

<b>Name</b>	TpegJunction
-------------	--------------

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

**XML Instance Representation**

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

**Schema Component Representation**

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

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**Complex Type: TpegJunctionPointDescriptor**

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

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

**XML Instance Representation**

```
<...>
  <loc:descriptor> com:MultilingualString </loc:descriptor> [1] ?
  <loc:_tpegDescriptorExtension> com:_ExtensionType </loc:_tpegDescriptorExtension> [0..1]
  <loc:_tpegPointDescriptorExtension> com:_ExtensionType </loc:_tpegPointDescriptorExtension> [0..1]
  <loc:tpegJunctionPointDescriptorType> loc:TpegLoc03JunctionPointDescriptorSubTypeEnum
</loc:tpegJunctionPointDescriptorType> [1] ?
  <loc:_tpegJunctionPointDescriptorExtension> com:_ExtensionType </loc:_tpegJunctionPointDescriptorExtension> [0..1]
</...>
```

**Schema Component Representation**

```
<xs:complexType name="TpegJunctionPointDescriptor">
  <xs:complexContent>
    <xs:extension base="loc:TpegPointDescriptor">
      <xs:sequence>
        <xs:element name="tpegJunctionPointDescriptorType" type="loc:TpegLoc03JunctionPointDescriptorSubTypeEnum"
minOccurs="1" maxOccurs="1"/>
        <xs:element name="_tpegJunctionPointDescriptorExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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**Complex Type: TpegLinearLocation**

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

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

**XML Instance Representation**

```
<...>
  <loc:tpegDirection> loc:_DirectionEnum </loc:tpegDirection> [1] ?
  <loc:tpegLinearLocationType> loc:TpegLoc01LinearLocationSubTypeEnum </loc:tpegLinearLocationType> [1] ?
  <loc:to> loc:TpegPoint </loc:to> [1] ?
  <loc:from> loc:TpegPoint </loc:from> [1] ?
  <loc:_tpegLinearLocationExtension> com:_ExtensionType </loc:_tpegLinearLocationExtension> [0..1]
</...>
```

**Schema Component Representation**

```
<xs:complexType name="TpegLinearLocation">
  <xs:sequence>
    <xs:element name="tpegDirection" type="loc:_DirectionEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="tpegLinearLocationType" type="loc:TpegLoc01LinearLocationSubTypeEnum" minOccurs="1"
maxOccurs="1"/>
  </xs: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>

```

[top](#)

## Complex Type: TpegNonJunctionPoint

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

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

### XML Instance Representation

```

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

```

### Schema Component Representation

```

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

```

[top](#)

## Complex Type: TpegOtherPointDescriptor

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

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

### XML Instance Representation

```

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

```

```

<loc:tpegOtherPointDescriptorType> loc:_TpegLoc030OtherPointDescriptorSubtypeEnum
</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:_TpegLoc030OtherPointDescriptorSubtypeEnum"
          minOccurs="1" maxOccurs="1"/>
        <xs:element name="_tpegOtherPointDescriptorExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

### Complex Type: TpegPoint

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

<b>Name</b>	TpegPoint
<b>Abstract</b>	yes
<b>Documentation</b>	A point on the road network which is either a junction point or a non junction point.

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

[top](#)

### Complex Type: TpegPointDescriptor

Super-types:	<a href="#">TpegDescriptor</a> < <a href="#">TpegPointDescriptor</a> (by extension)
Sub-types:	<ul style="list-style-type: none"> <li>• <a href="#">TpegJlcPointDescriptor</a> (by extension)</li> <li>• <a href="#">TpegJunctionPointDescriptor</a> (by extension)</li> <li>• <a href="#">TpegOtherPointDescriptor</a> (by extension)</li> </ul>

<b>Name</b>	TpegPointDescriptor
<b>Abstract</b>	yes
<b>Documentation</b>	A descriptor for describing a point location.

#### XML Instance Representation

```

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

```

#### Schema Component Representation

```

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

```

[top](#)

### Complex Type: TpegPointLocation

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

<b>Name</b>	TpegPointLocation
<b>Abstract</b>	yes

**Documentation**

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

**XML Instance Representation**

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

**Schema Component Representation**

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

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

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

Sub-types: None

Name TpegSimplePoint

Abstract no

Documentation A point on the road network which is not bounded by any other points on the road network.

**XML Instance Representation**

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

**Schema Component Representation**

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

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

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

Sub-types: None

Name \_AlertCDirectionEnum

Abstract no

**XML Instance Representation**

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

**Schema Component Representation**

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

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

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

Sub-types: None

Name \_AltitudeAccuracyEnum

Abstract no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: AreaPlacesEnum

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: CarriagewayEnum

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: DirectionEnum

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

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

#### XML Instance Representation

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

#### Schema Component Representation

```
<xs:complexType name="_DirectionEnum">  
  <xs:simpleContent>  
    <xs:extension base="loc:DirectionEnum">
```

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

[top](#)

## Complex Type: **\_DirectionPurposeEnum**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: **\_GeographicCharacteristicEnum**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: **\_HeightGradeEnum**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: **\_HeightTypeEnum**

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

Sub-types: None

Name: `_HeightTypeEnum`  
Abstract: no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: `_InfrastructureDescriptorEnum`

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

Name: `_InfrastructureDescriptorEnum`  
Abstract: no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: `_IntermediatePointOnLinearElement`

Super-types: None  
Sub-types: None

Name: `_IntermediatePointOnLinearElement`  
Abstract: no

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: `_LaneEnum`

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

Name: `_LaneEnum`  
Abstract: no

#### XML Instance Representation

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



## Schema Component Representation

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

[top](#)

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

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

Sub-types: None

Name [\\_LinearDirectionEnum](#)

**Abstract** no

### XML Instance Representation

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

## Schema Component Representation

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

[top](#)

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

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

Sub-types: None

Name [\\_LinearElementNatureEnum](#)

**Abstract** no

### XML Instance Representation

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

## Schema Component Representation

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

[top](#)

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

Super-types: None

Sub-types: None

Name [\\_LocationContainedInItinerary](#)

**Abstract** no

### XML Instance Representation

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

## Schema Component Representation

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

[top](#)

## Complex Type: LocationReferenceExtensionType

Super-types: None  
Sub-types: None

Name LocationReferenceExtensionType

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: NamedAreaExtensionType

Super-types: None  
Sub-types: None

Name NamedAreaExtensionType

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: NamedAreaTypeEnum

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

Name NamedAreaTypeEnum

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: NutsCodeTypeEnum

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

Name NutsCodeTypeEnum

**Abstract** no

### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: OpenlrFormOfWayEnum

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: OpenlrFunctionalRoadClassEnum

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

[top](#)

### Complex Type: OpenlrOrientationEnum

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

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

#### XML Instance Representation

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

#### Schema Component Representation

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

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

[top](#)

## Complex Type: **\_OpenlrSideOfRoadEnum**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: **\_PositionConfidenceCodedErrorEnum**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: **\_PredefinedItineraryVersionedReference**

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

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

### XML Instance Representation

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

### Schema Component Representation

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

[top](#)

## Complex Type: **\_PredefinedLocationGroupVersionedReference**

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

Sub-types: None

Name `_PredefinedLocationGroupVersionedReference`  
Abstract no

#### XML Instance Representation

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

#### Schema Component Representation

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

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### 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>
```

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### Complex Type: `_ReferentTypeEnum`

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

Sub-types: None

Name `_ReferentTypeEnum`  
Abstract no

#### XML Instance Representation

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

#### Schema Component Representation

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

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### 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>
```

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### 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> loc: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>
```

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

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### 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>
```

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### 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>
```

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### 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>
```

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### 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|equal

**Documentation** Coded level of vertical accuracy

### Schema Component Representation

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

## Simple Type: **AreaPlacesEnum**

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

**Sub-types:**

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

**Name** AreaPlacesEnum

**Content**

- Base XSD Type: string
- *value* comes from list:  
{atBorders|atHighAltitudes|inBuiltUpAreas|inForestedAreas|inGalleries|inLowLyingAreas|inRuralAreas|inShadedAreas|inTheInnerCityAreas|i

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

### Schema Component Representation

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

## Simple Type: **CarriagewayEnum**

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

**Sub-types:**

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

**Name** CarriagewayEnum

**Content**

- Base XSD Type: string

- *value* comes from list:  
{connectingCarriageway|'cycleTrack|'entrySlipRoad|'exitSlipRoad|'flyover|'footpath|'leftHandFeederRoad|'leftHandParallelCarriageway|'mainCarri

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

#### Schema Component Representation

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

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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|'sou

**Documentation** List of directions of travel.

#### Schema Component Representation

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

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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**
- Base XSD Type: string
  - *value* comes from list: {'ellipsoidalHeight'|'gravityRelatedHeight'|'relativeHeight'|'\_extended'}
- Documentation** Coded value for type of height

#### Schema Component Representation

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

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### Simple Type: InfrastructureDescriptorEnum

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

**Sub-types:**

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

**Name** InfrastructureDescriptorEnum

- Content**
- Base XSD Type: string
  - *value* comes from list: {'atMotorwayInterchange'|'atRestArea'|'atServiceArea'|'atTollPlaza'|'atTunnelEntryOrExit'|'inGallery'|'inTunnel'|'onBridge'|'onConnector'|'onElevatedSe

**Documentation** Descriptor identifying infrastructure to help to identify a specific location.

#### Schema Component Representation

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

[top](#)

### Simple Type: LaneEnum

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

**Sub-types:**

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

**Name** LaneEnum

- Content**
- Base XSD Type: string
  - *value* comes from list: {'allLanesCompleteCarriageway'|'busLane'|'busStop'|'carPoolLane'|'centralReservation'|'crawlerLane'|'cycleLane'|'emergencyLane'|'escapeLane'|'exp

**Documentation** List of descriptors identifying specific lanes.

#### Schema Component Representation

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

```

[top](#)

## Simple Type: **LinearDirectionEnum**

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

**Sub-types:**

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

**Name** LinearDirectionEnum

**Content**

- Base XSD Type: string
- *value* comes from list: {'both'|'opposite'|'aligned'|'unknown'|'\_extended'}

**Documentation** Directions of traffic flow relative to the direction in which the linear element is defined.

### Schema Component Representation

```

<xs:simpleType name="LinearDirectionEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="both"/>
    <xs:enumeration value="opposite"/>
    <xs:enumeration value="aligned"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: **LinearElementNatureEnum**

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

**Sub-types:**

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

**Name** LinearElementNatureEnum

**Content**

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

**Documentation** List of indicative natures of linear elements.

### Schema Component Representation

```

<xs:simpleType name="LinearElementNatureEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="road"/>
    <xs:enumeration value="roadSection"/>
    <xs:enumeration value="slipRoad"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

## Simple Type: **NamedAreaTypeEnum**

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

**Sub-types:**

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

**Name** NamedAreaTypeEnum

**Content**

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

**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

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

Documentation Enumeration of functional road class

## Schema Component Representation

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

[top](#)

## Simple Type: OpenlrOrientationEnum

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

Sub-types:

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

Name OpenlrOrientationEnum

Content

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

Documentation Enumeration of orientation

## Schema Component Representation

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

[top](#)

## Simple Type: OpenlrSideOfRoadEnum

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

Sub-types:

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

Name OpenlrSideOfRoadEnum

Content

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

Documentation Enumeration of side of road

## Schema Component Representation

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



```

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

```

[top](#)

### Simple Type: **PositionConfidenceCodedErrorEnum**

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

Sub-types:

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

**Name** PositionConfidenceCodedErrorEnum

**Content**

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

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

#### Schema Component Representation

```

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

```

[top](#)

### Simple Type: **ReferentTypeEnum**

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

Sub-types:

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

**Name** ReferentTypeEnum

**Content**

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

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

#### Schema Component Representation

```

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

```

[top](#)

### Simple Type: **RelativePositionOnCarriagewayEnum**

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

Sub-types:

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

**Name** RelativePositionOnCarriagewayEnum

**Content**

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

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

#### Schema Component Representation

```

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

```

[top](#)

## Simple Type: SubdivisionCode

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

Sub-types: None

Name SubdivisionCode

Content

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

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

### Schema Component Representation

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

[top](#)

## Simple Type: SubdivisionTypeEnum

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

Sub-types:

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

Name SubdivisionTypeEnum

Content

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

Documentation ISO 3166-2 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

---

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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	<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>
fac	<a href="http://datex2.eu/schema/3/facilities">http://datex2.eu/schema/3/facilities</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>
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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  - [Complex Type: TrafficData](#)
  - [Complex Type: TrafficDensityValue](#)
  - [Complex Type: TrafficFlow](#)
  - [Complex Type: TrafficGap](#)
  - [Complex Type: TrafficHeadway](#)
  - [Complex Type: TrafficSpeed](#)
  - [Complex Type: MeasuredOrDerivedDataTypeEnum](#)
  - [Complex Type: MeasurementSiteIndexMeasurementSpecificCharacteristics](#)
  - [Complex Type: MeasurementSiteTableVersionedReference](#)
  - [Complex Type: MeasurementSiteVersionedReference](#)
  - [Complex Type: SiteMeasurementsIndexPhysicalQuantity](#)
  - [Complex Type: TimeMeaningEnum](#)
  - [Simple Type: DensityVehiclesPerKilometre](#)
  - [Simple Type: MeasuredOrDerivedDataTypeEnum](#)
  - [Simple Type: PassengerCarUnitsPerHour](#)
  - [Simple Type: TimeMeaningEnum](#)
  - [Simple Type: VehiclesPerDay](#)

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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 <http://www.w3.org/XML/1998/namespace>  
 xs <http://www.w3.org/2001/XMLSchema>  
 loc <http://datex2.eu/schema/3/locationReferencing>  
 com <http://datex2.eu/schema/3/common>  
 roa <http://datex2.eu/schema/3/roadTrafficData>

### 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: **AxleCharacteristics**

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

<b>Name</b>	AxleCharacteristics
<b>Abstract</b>	no
<b>Documentation</b>	Characteristics of vehicle axles

### XML Instance Representation

```
<...>
  <roa:maximumWeight> com:Tonnes </roa:maximumWeight> [0..1] ?
  <roa:minimumWeight> com:Tonnes </roa:minimumWeight> [0..1] ?
  <roa:_axleCharacteristicsExtension> com:\_ExtensionType
  </roa:_axleCharacteristicsExtension> [0..1]
</...>
```

### Schema Component Representation

```
<xs:complexType name="AxleCharacteristics">
  <xs:sequence>
    <xs:element name="maximumWeight" type="com:Tonnes" minOccurs="0"
      maxOccurs="1"/>
    <xs:element name="minimumWeight" type="com:Tonnes" minOccurs="0"
      maxOccurs="1"/>
    <xs:element name="_axleCharacteristicsExtension"
      type="com:\_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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### Complex Type: **AxleFlowValue**

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

<b>Name</b>	AxleFlowValue
-------------	---------------

<b>Abstract</b>	no
<b>Documentation</b>	A measured or calculated value of the flow rate of vehicle axles.

### XML Instance Representation

```
<...>
  <!-- 'com:DataValue' super type was not found in this schema. Some elements
  and attributes may be missing. -->
  <roa:axleFlowRate> com:AxlesPerHour </roa:axleFlowRate> [1] ?
  <roa:_axleFlowValueExtension> com:_ExtensionType
  </roa:_axleFlowValueExtension> [0..1]
</...>
```

### Schema Component Representation

```
<xs:complexType name="AxleFlowValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="axleFlowRate" type="com:AxlesPerHour"
          minOccurs="1" maxOccurs="1"/>
        <xs:element name="_axleFlowValueExtension" type="com:_ExtensionType"
          minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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## Complex Type: **BasicData**

**Super-types:** None

**Sub-types:**

- [TrafficData](#) (by extension)
  - [TrafficConcentration](#) (by extension)
  - [TrafficFlow](#) (by extension)
  - [TrafficGap](#) (by extension)
  - [TrafficHeadway](#) (by extension)
  - [TrafficSpeed](#) (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>
```

## Complex Type: **DailyTrafficFlowValue**

Super-types: [com:DataValue](#) < **DailyTrafficFlowValue** (by extension)

Sub-types: None

<b>Name</b>	DailyTrafficFlowValue
<b>Abstract</b>	no
<b>Documentation</b>	A measured or calculated value of daily traffic flow

### XML Instance Representation

```
<...>
  <!-- 'com:DataValue' super type was not found in this schema. Some elements
  and attributes may be missing. -->
  <roa:vehicleFlowRate> roa:VehiclesPerDay </roa:vehicleFlowRate> [1] ?
  <roa:_dailyTrafficFlowValueExtension> com:_ExtensionType
  </roa:_dailyTrafficFlowValueExtension> [0..1]
</...>
```

### Schema Component Representation

```
<xs:complexType name="DailyTrafficFlowValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="vehicleFlowRate" type="roa:VehiclesPerDay"
          minOccurs="1" maxOccurs="1"/>
        <xs:element name="_dailyTrafficFlowValueExtension"
          type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

## Complex Type: **DurationValue**

Super-types: [com:DataValue](#) < **DurationValue** (by extension)

Sub-types: None

<b>Name</b>	DurationValue
<b>Abstract</b>	no
<b>Documentation</b>	A measured or calculated value of a period of time.

### XML Instance Representation

```
<...>
  <!-- 'com:DataValue' super type was not found in this schema. Some elements
  and attributes may be missing. -->
  <roa:duration> com:Seconds </roa:duration> [1] ?
  <roa:_durationValueExtension> com:_ExtensionType
  </roa:_durationValueExtension> [0..1]
</...>
```

### Schema Component Representation

```
<xs:complexType name="DurationValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
```

```

<xs:sequence>
  <xs:element name="duration" type="com:Seconds" minOccurs="1"
maxOccurs="1"/>
  <xs:element name="_durationValueExtension" type="com:_ExtensionType"
minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

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## Complex Type: **MeasuredDataPublication**

Super-types: [com:PayloadPublication](#) < **MeasuredDataPublication** (by extension)  
Sub-types: None

**Name** MeasuredDataPublication  
**Abstract** no  
**Documentation** A publication containing one or more measurement data sets, each set being measured at a single measurement site.

### XML Instance Representation

```

<...>
  <!-- 'com:PayloadPublication' super type was not found in this schema. Some
elements and attributes may be missing. -->
  <roa:measurementSiteTableReference>
    roa:_MeasurementSiteTableVersionedReference
  </roa:measurementSiteTableReference> [1..*] ?
  <roa:headerInformation> com:HeaderInformation </roa:headerInformation> [1]
  <roa:siteMeasurements> roa:SiteMeasurements </roa:siteMeasurements> [1..*]
  <roa:_measuredDataPublicationExtension> com:_ExtensionType
  </roa:_measuredDataPublicationExtension> [0..1]
</...>

```

### Schema Component Representation

```

<xs:complexType name="MeasuredDataPublication">
  <xs:complexContent>
    <xs:extension base="com:PayloadPublication">
      <xs:sequence>
        <xs:element name="measurementSiteTableReference"
type="roa:_MeasurementSiteTableVersionedReference" minOccurs="1"
maxOccurs="unbounded"/>
        <xs:element name="headerInformation" type="com:HeaderInformation"/>
        <xs:element name="siteMeasurements" type="roa:SiteMeasurements"
maxOccurs="unbounded"/>
        <xs:element name="_measuredDataPublicationExtension"
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

<b>Abstract</b>	no
<b>Documentation</b>	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: MeasurementSite

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

<b>Name</b>	MeasurementSite
<b>Abstract</b>	no
<b>Documentation</b>	An identifiable single measurement site entry/record in the measurement site table.

### XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <roa:measurementSiteRecordVersionTime> com:DateTime
    </roa:measurementSiteRecordVersionTime> [0..1] ?
    <roa:measurementSiteName> com:MultilingualString </roa:measurementSiteName>
    [0..1] ?
    <roa:measurementSiteIdentification> com:String
    </roa:measurementSiteIdentification> [0..1] ?
    <roa:measurementSpecificCharacteristics>
      roa:_MeasurementSiteIndexMeasurementSpecificCharacteristics
    </roa:measurementSpecificCharacteristics> [0..*] ?
    <roa:measurementSiteLocation> loc:LocationReference
    </roa:measurementSiteLocation> [1]
    <roa:informationManagerOverride> com:InternationalIdentifier
    </roa:informationManagerOverride> [0..1] ?
    <roa:_measurementSiteExtension> com:_ExtensionType
    </roa:_measurementSiteExtension> [0..1]
```

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

## Schema Component Representation

```
<xs:complexType name="MeasurementSite">
  <xs:sequence>
    <xs:element name="measurementSiteRecordVersionTime" type="com:DateTime"
      minOccurs="0" maxOccurs="1"/>
    <xs:element name="measurementSiteName" type="com:MultilingualString"
      minOccurs="0" maxOccurs="1"/>
    <xs:element name="measurementSiteIdentification" type="com:String"
      minOccurs="0" maxOccurs="1"/>
    <xs:element name="measurementSpecificCharacteristics"
      type="roa:MeasurementSiteIndexMeasurementSpecificCharacteristics"
      minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="measurementSiteLocation" type="loc:LocationReference"/>
    <xs:element name="informationManagerOverride"
      type="com:InternationalIdentifier" minOccurs="0"/>
    <xs:element name="_measurementSiteExtension" type="com:ExtensionType"
      minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="id" type="xs:string" use="required"/>
  <xs:attribute name="version" type="xs:string" use="required"/>
</xs:complexType>
```

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## Complex Type: MeasurementSiteTable

*Super-types:* None

*Sub-types:* None

<b>Name</b>	MeasurementSiteTable
<b>Abstract</b>	no
<b>Documentation</b>	A Measurement Site Table comprising a number of sets of data, each describing the location from where a stream of measured data may be derived. Each location is known as a "measurement site" which can be a point, a linear road section or an area.

## XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
  <roa:measurementSiteTableIdentification> com:String
</roa:measurementSiteTableIdentification> [0..1] ?
  <roa:measurementSite> roa:MeasurementSite </roa:measurementSite> [1..*]
  <roa:informationManager> com:InternationalIdentifier
</roa:informationManager> [0..1] ?
  <roa:_measurementSiteTableExtension> com:ExtensionType
</roa:_measurementSiteTableExtension> [0..1]
</...>
```

## Schema Component Representation

```
<xs:complexType name="MeasurementSiteTable">
  <xs:sequence>
    <xs:element name="measurementSiteTableIdentification" type="com:String"
      minOccurs="0" maxOccurs="1"/>
    <xs:element name="measurementSite" type="roa:MeasurementSite"
      maxOccurs="unbounded"/>
    <xs:element name="informationManager" type="com:InternationalIdentifier"
      minOccurs="0"/>
    <xs:element name="_measurementSiteTableExtension"
      type="com:ExtensionType" minOccurs="0"/>
  </xs:sequence>
```

```

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

```

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## Complex Type: MeasurementSiteTablePublication

Super-types: [com:PayloadPublication](#) < MeasurementSiteTablePublication (by extension)

Sub-types: None

**Name** MeasurementSiteTablePublication  
**Abstract** no  
**Documentation** A publication containing one or more Measurement Site Tables.

### 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:measurementSiteTable> roa:MeasurementSiteTable
  </roa:measurementSiteTable> [1..*]
  <roa:_measurementSiteTablePublicationExtension> com:_ExtensionType
  </roa:_measurementSiteTablePublicationExtension> [0..1]
</...>

```

### Schema Component Representation

```

<xs:complexType name="MeasurementSiteTablePublication">
  <xs:complexContent>
    <xs:extension base="com:PayloadPublication">
      <xs:sequence>
        <xs:element name="headerInformation" type="com:HeaderInformation"/>
        <xs:element name="measurementSiteTable"
          type="roa:MeasurementSiteTable" maxOccurs="unbounded"/>
        <xs:element name="_measurementSiteTablePublicationExtension"
          type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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## Complex Type: MeasurementSpecificCharacteristics

Super-types: None

Sub-types: None

**Name** MeasurementSpecificCharacteristics  
**Abstract** no  
**Documentation** Characteristics which are specific to an individual measurement type (specified in a known order) at the given measurement site.

### XML Instance Representation

```

<...>
  <roa:period> com:Seconds </roa:period> [0..1] ?
  <roa:specificMeasurementValueType> roa:_MeasuredOrDerivedDataTypeEnum
  </roa:specificMeasurementValueType> [1] ?

```



```

<roa:specificVehicleCharacteristics> com:VehicleCharacteristics
</roa:specificVehicleCharacteristics> [0..1]
<roa:_measurementSpecificCharacteristicsExtension> com: _ExtensionType
</roa:_measurementSpecificCharacteristicsExtension> [0..1]
</...>

```

### Schema Component Representation

```

<xs:complexType name="MeasurementSpecificCharacteristics">
  <xs:sequence>
    <xs:element name="period" type="com:Seconds" minOccurs="0"
maxOccurs="1"/>
    <xs:element name="specificMeasurementValueType"
type="roa: MeasuredOrDerivedDataTypeEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="specificVehicleCharacteristics"
type="com:VehicleCharacteristics" minOccurs="0"/>
    <xs:element name="_measurementSpecificCharacteristicsExtension"
type="com: _ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

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## Complex Type: PcuFlowValue

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

Sub-types: None

<b>Name</b>	PcuFlowValue
<b>Abstract</b>	no
<b>Documentation</b>	A measured or calculated value of the flow rate of passenger car units.

### XML Instance Representation

```

<...>
  <!-- 'com:DataValue' super type was not found in this schema. Some elements
and attributes may be missing. -->
  <roa:pcuFlowRate> roa:PassengerCarUnitsPerHour </roa:pcuFlowRate> [1] ?
  <roa:_pcuFlowValueExtension> com: _ExtensionType
  </roa:_pcuFlowValueExtension> [0..1]
</...>

```

### Schema Component Representation

```

<xs:complexType name="PcuFlowValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="pcuFlowRate" type="roa:PassengerCarUnitsPerHour"
minOccurs="1" maxOccurs="1"/>
        <xs:element name="_pcuFlowValueExtension" type="com: _ExtensionType"
minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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## Complex Type: PhysicalQuantity

Super-types: None

Sub-types:

- [SinglePhysicalQuantity](#) (by extension)

<b>Name</b>	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**

<b>Super-types:</b>	<a href="#">PhysicalQuantity</a> < <b>SinglePhysicalQuantity</b> (by extension)
<b>Sub-types:</b>	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>
```

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

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## Complex Type: **SiteMeasurements**

*Super-types:* None

*Sub-types:* None

<b>Name</b>	SiteMeasurements
<b>Abstract</b>	no
<b>Documentation</b>	A measurement data set derived from a specific measurement site.

### XML Instance Representation

```
<...>
  <roa:measurementSiteReference> roa:_MeasurementSiteVersionedReference
</roa:measurementSiteReference> [1] ?
  <roa:physicalQuantity> roa:_SiteMeasurementsIndexPhysicalQuantity
</roa:physicalQuantity> [0..*] ?
  <roa:measurementTimeDefault> roa:MeasurementOrCalculationTime
</roa:measurementTimeDefault> [1] ?
  <roa:_siteMeasurementsExtension> com:_ExtensionType
</roa:_siteMeasurementsExtension> [0..1]
</...>
```

### Schema Component Representation

```
<xs:complexType name="SiteMeasurements">
  <xs:sequence>
    <xs:element name="measurementSiteReference"
      type="roa:_MeasurementSiteVersionedReference" minOccurs="1"
      maxOccurs="1"/>
    <xs:element name="physicalQuantity"
      type="roa:_SiteMeasurementsIndexPhysicalQuantity" minOccurs="0"
      maxOccurs="unbounded"/>
    <xs:element name="measurementTimeDefault"
      type="roa:MeasurementOrCalculationTime"/>
    <xs:element name="_siteMeasurementsExtension" type="com:_ExtensionType"
      minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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## Complex Type: **SpeedPercentile**

*Super-types:* None

*Sub-types:* None

<b>Name</b>	SpeedPercentile
<b>Abstract</b>	no
<b>Documentation</b>	Details of percentage (from an observation set) of vehicles whose speeds fall below a stated value.

### XML Instance Representation

```
<...>
  <roa:vehiclePercentage> com:PercentageValue </roa:vehiclePercentage> [1] ?
</...>
```

```

<roa:speedPercentile> com:SpeedValue </roa:speedPercentile> [1] ?
<roa:_speedPercentileExtension> com:_ExtensionType
</roa:_speedPercentileExtension> [0..1]
</...>

```

### Schema Component Representation

```

<xs:complexType name="SpeedPercentile">
  <xs:sequence>
    <xs:element name="vehiclePercentage" type="com:PercentageValue"/>
    <xs:element name="speedPercentile" type="com:SpeedValue"/>
    <xs:element name="_speedPercentileExtension" type="com:_ExtensionType"
      minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

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## Complex Type: TrafficConcentration

Super-types: [BasicData](#) < [TrafficData](#) (by extension) < **TrafficConcentration** (by extension)

Sub-types: None

<b>Name</b>	TrafficConcentration
<b>Abstract</b>	no
<b>Documentation</b>	Averaged measurements or calculations of traffic concentration.

### XML Instance Representation

```

<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
  </roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:forVehiclesWithCharacteristicsOf> com:VehicleCharacteristics
  </roa:forVehiclesWithCharacteristicsOf> [0..1] ?
  <roa:_trafficDataExtension> com:_ExtensionType </roa:_trafficDataExtension>
  [0..1]
  <roa:density> roa:TrafficDensityValue </roa:density> [0..1] ?
  <roa:occupancy> com:PercentageValue </roa:occupancy> [0..1] ?
  <roa:_trafficConcentrationExtension> com:_ExtensionType
  </roa:_trafficConcentrationExtension> [0..1]
</...>

```

### Schema Component Representation

```

<xs:complexType name="TrafficConcentration">
  <xs:complexContent>
    <xs:extension base="roa:TrafficData">
      <xs:sequence>
        <xs:element name="density" type="roa:TrafficDensityValue"
          minOccurs="0"/>
        <xs:element name="occupancy" type="com:PercentageValue"
          minOccurs="0"/>
        <xs:element name="_trafficConcentrationExtension"
          type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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## Complex Type: TrafficData

Super-types: [BasicData](#) < **TrafficData** (by extension)

Sub-types:

- [TrafficConcentration](#) (by extension)
- [TrafficFlow](#) (by extension)
- [TrafficGap](#) (by extension)
- [TrafficHeadway](#) (by extension)
- [TrafficSpeed](#) (by extension)

<b>Name</b>	TrafficData
<b>Abstract</b>	yes
<b>Documentation</b>	Measured or derived values relating to traffic or individual vehicle movements on a specific section or at a specific point on the road network.

#### XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com: _ExtensionType </roa:_basicDataExtension>
[0..1]
  <roa:forVehiclesWithCharacteristicsOf> com:VehicleCharacteristics
</roa:forVehiclesWithCharacteristicsOf> [0..1] ?
  <roa:_trafficDataExtension> com: _ExtensionType </roa:_trafficDataExtension>
[0..1]
</...>
```

#### Schema Component Representation

```
<xs:complexType name="TrafficData" abstract="true">
  <xs:complexContent>
    <xs:extension base="roa:BasicData">
      <xs:sequence>
        <xs:element name="forVehiclesWithCharacteristicsOf"
          type="com:VehicleCharacteristics" minOccurs="0"/>
        <xs:element name="_trafficDataExtension" type="com: _ExtensionType"
          minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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## Complex Type: **TrafficDensityValue**

Super-types: [com:DataValue](#) < **TrafficDensityValue** (by extension)

Sub-types: None

<b>Name</b>	TrafficDensityValue
<b>Abstract</b>	no
<b>Documentation</b>	A measured or calculated value of the density of vehicles on a unit stretch of road in a given direction.

#### XML Instance Representation

```
<...>
  <!-- 'com:DataValue' super type was not found in this schema. Some elements
and attributes may be missing. -->
  <roa:densityOfVehicles> roa:DensityVehiclesPerKilometre
</roa:densityOfVehicles> [1] ?
  <roa:_trafficDensityValueExtension> com: _ExtensionType
</roa:_trafficDensityValueExtension> [0..1]
```

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

## Schema Component Representation

```
<xs:complexType name="TrafficDensityValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="densityOfVehicles"
          type="roa:DensityVehiclesPerKilometre" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_trafficDensityValueExtension"
          type="com:ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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## Complex Type: TrafficFlow

Super-types: [BasicData](#) < [TrafficData](#) (by extension) < **TrafficFlow** (by extension)

Sub-types: None

<b>Name</b>	TrafficFlow
<b>Abstract</b>	no
<b>Documentation</b>	Averaged measurements or calculations of traffic flow rates.

## XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:forVehiclesWithCharacteristicsOf> com:VehicleCharacteristics
</roa:forVehiclesWithCharacteristicsOf> [0..1] ?
  <roa:_trafficDataExtension> com:_ExtensionType </roa:_trafficDataExtension>
  [0..1]
  <roa:axleFlow> roa:AxleFlowValue </roa:axleFlow> [0..1] ?
  <roa:pcuFlow> roa:PcuFlowValue </roa:pcuFlow> [0..1] ?
  <roa:percentageLongVehicles> com:PercentageValue
</roa:percentageLongVehicles> [0..1] ?
  <roa:vehicleFlow> com:VehicleFlowValue </roa:vehicleFlow> [0..1] ?
  <roa:normallyExpectedFlow> com:VehicleFlowValue </roa:normallyExpectedFlow>
  [0..1] ?
  <roa:annualAverageDailyTraffic> roa:DailyTrafficFlowValue
</roa:annualAverageDailyTraffic> [0..1] ?
  <roa:monthlyAverageDailyTraffic> roa:DailyTrafficFlowValue
</roa:monthlyAverageDailyTraffic> [0..1] ?
  <roa:axleCharacteristics> roa:AxleCharacteristics
</roa:axleCharacteristics> [0..1] ?
  <roa:_trafficFlowExtension> com:_ExtensionType </roa:_trafficFlowExtension>
  [0..1]
</...>
```

## Schema Component Representation

```
<xs:complexType name="TrafficFlow">
  <xs:complexContent>
    <xs:extension base="roa:TrafficData">
      <xs:sequence>
        <xs:element name="axleFlow" type="roa:AxleFlowValue" minOccurs="0"/>
        <xs:element name="pcuFlow" type="roa:PcuFlowValue" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

<xs:element name="percentageLongVehicles" type="com:PercentageValue"
minOccurs="0"/>
<xs:element name="vehicleFlow" type="com:VehicleFlowValue"
minOccurs="0"/>
<xs:element name="normallyExpectedFlow" type="com:VehicleFlowValue"
minOccurs="0"/>
<xs:element name="annualAverageDailyTraffic"
type="roa:DailyTrafficFlowValue" minOccurs="0"/>
<xs:element name="monthlyAverageDailyTraffic"
type="roa:DailyTrafficFlowValue" minOccurs="0"/>
<xs:element name="axleCharacteristics"
type="roa:AxleCharacteristics" minOccurs="0"/>
<xs:element name="_trafficFlowExtension" type="com:ExtensionType"
minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

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## Complex Type: TrafficGap

**Super-types:** [BasicData](#) < [TrafficData](#) (by extension) < **TrafficGap** (by extension)

**Sub-types:** None

<b>Name</b>	TrafficGap
<b>Abstract</b>	no
<b>Documentation</b>	Averaged measurements or calculations of traffic gap i.e. the distance or time interval between vehicles, measured between the rear of one vehicle and the front of the following vehicle.

### XML Instance Representation

```

<...>
<roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
<roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
[0..1]
<roa:forVehiclesWithCharacteristicsOf> com:VehicleCharacteristics
</roa:forVehiclesWithCharacteristicsOf> [0..1] ?
<roa:_trafficDataExtension> com:_ExtensionType </roa:_trafficDataExtension>
[0..1]
<roa:averageDistanceGap> com:FloatingPointMetreDistanceValue
</roa:averageDistanceGap> [0..1] ?
<roa:averageTimeGap> roa:DurationValue </roa:averageTimeGap> [0..1] ?
<roa:_trafficGapExtension> com:_ExtensionType </roa:_trafficGapExtension>
[0..1]
</...>

```

### Schema Component Representation

```

<xs:complexType name="TrafficGap">
<xs:complexContent>
<xs:extension base="roa:TrafficData">
<xs:sequence>
<xs:element name="averageDistanceGap"
type="com:FloatingPointMetreDistanceValue" minOccurs="0"/>
<xs:element name="averageTimeGap" type="roa:DurationValue"
minOccurs="0"/>
<xs:element name="_trafficGapExtension" type="com:_ExtensionType"
minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

## Complex Type: **TrafficHeadway**

**Super-types:** [BasicData](#) < [TrafficData](#) (by extension) < **TrafficHeadway** (by extension)  
**Sub-types:** None

**Name** TrafficHeadway  
**Abstract** no  
**Documentation** Averaged measurements or calculations of traffic headway, i.e. the distance or time interval between vehicles. This is measured one end (normally the front) of one vehicle to the same end of the following vehicle.

### XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
[0..1]
  <roa:forVehiclesWithCharacteristicsOf> com:VehicleCharacteristics
</roa:forVehiclesWithCharacteristicsOf> [0..1] ?
  <roa:_trafficDataExtension> com:_ExtensionType </roa:_trafficDataExtension>
[0..1]
  <roa:averageDistanceHeadway> com:FloatingPointMetreDistanceValue
</roa:averageDistanceHeadway> [0..1] ?
  <roa:averageTimeHeadway> roa:DurationValue </roa:averageTimeHeadway> [0..1]
?
  <roa:_trafficHeadwayExtension> com:_ExtensionType
</roa:_trafficHeadwayExtension> [0..1]
</...>
```

### Schema Component Representation

```
<xs:complexType name="TrafficHeadway">
  <xs:complexContent>
    <xs:extension base="roa:TrafficData">
      <xs:sequence>
        <xs:element name="averageDistanceHeadway"
          type="com:FloatingPointMetreDistanceValue" minOccurs="0"/>
        <xs:element name="averageTimeHeadway" type="roa:DurationValue"
          minOccurs="0"/>
        <xs:element name="_trafficHeadwayExtension"
          type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

## Complex Type: **TrafficSpeed**

**Super-types:** [BasicData](#) < [TrafficData](#) (by extension) < **TrafficSpeed** (by extension)  
**Sub-types:** None

**Name** TrafficSpeed  
**Abstract** no  
**Documentation** Averaged measurements or calculations of traffic speed.



## XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:ExtensionType </roa:_basicDataExtension>
[0..1]
  <roa:forVehiclesWithCharacteristicsOf> com:VehicleCharacteristics
</roa:forVehiclesWithCharacteristicsOf> [0..1] ?
  <roa:_trafficDataExtension> com:ExtensionType </roa:_trafficDataExtension>
[0..1]
  <roa:averageVehicleSpeed> com:SpeedValue </roa:averageVehicleSpeed> [0..1]
?
  <roa:speedPercentile> roa:SpeedPercentile </roa:speedPercentile> [0..*]
  <roa:normallyExpectedSpeed> com:SpeedValue </roa:normallyExpectedSpeed>
[0..1] ?
  <roa:minimumSpeed> com:SpeedValue </roa:minimumSpeed> [0..1] ?
  <roa:maximumSpeed> com:SpeedValue </roa:maximumSpeed> [0..1] ?
  <roa:_trafficSpeedExtension> com:ExtensionType
  </roa:_trafficSpeedExtension> [0..1]
</...>
```

## Schema Component Representation

```
<xs:complexType name="TrafficSpeed">
  <xs:complexContent>
    <xs:extension base="roa:TrafficData">
      <xs:sequence>
        <xs:element name="averageVehicleSpeed" type="com:SpeedValue"
minOccurs="0"/>
        <xs:element name="speedPercentile" type="roa:SpeedPercentile"
minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="normallyExpectedSpeed" type="com:SpeedValue"
minOccurs="0"/>
        <xs:element name="minimumSpeed" type="com:SpeedValue"
minOccurs="0"/>
        <xs:element name="maximumSpeed" type="com:SpeedValue"
minOccurs="0"/>
        <xs:element name="_trafficSpeedExtension" type="com:ExtensionType"
minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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## Complex Type: **\_MeasuredOrDerivedDataTypeEnum**

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

*Sub-types:* None

**Name** `_MeasuredOrDerivedDataTypeEnum`

**Abstract** no

### XML Instance Representation

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

### Schema Component Representation

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

```

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

```

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## Complex Type: \_MeasurementSiteIndexMeasurementSpecificCharacteristics

Super-types: None  
Sub-types: None

**Name** \_MeasurementSiteIndexMeasurementSpecificCharacteristics  
**Abstract** no

### XML Instance Representation

```

<...
  index="xs:int [1]">
    <roa:measurementSpecificCharacteristics>
      roa:MeasurementSpecificCharacteristics
    </roa:measurementSpecificCharacteristics> [1]
</...>

```

### Schema Component Representation

```

<xs:complexType
  name="_MeasurementSiteIndexMeasurementSpecificCharacteristics">
  <xs:sequence>
    <xs:element name="measurementSpecificCharacteristics"
      type="roa:MeasurementSpecificCharacteristics" minOccurs="1"
      maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="index" type="xs:int" use="required"/>
</xs:complexType>

```

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## Complex Type: \_MeasurementSiteTableVersionedReference

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

**Name** \_MeasurementSiteTableVersionedReference  
**Abstract** no

### XML Instance Representation

```

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

```

### Schema Component Representation

```

<xs:complexType name="_MeasurementSiteTableVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">

```

```

        <xs:attribute name="targetClass" type="xs:string" use="required"
            fixed="roa:MeasurementSiteTable"/>
    </xs:extension>
</xs:complexContent>
</xs:complexType>

```

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## Complex Type: **\_MeasurementSiteVersionedReference**

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

**Sub-types:** None

**Name** **\_MeasurementSiteVersionedReference**

**Abstract** no

### XML Instance Representation

```

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

```

### Schema Component Representation

```

<xs:complexType name="_MeasurementSiteVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required"
        fixed="roa:MeasurementSite"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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## Complex Type: **\_SiteMeasurementsIndexPhysicalQuantity**

**Super-types:** None

**Sub-types:** None

**Name** **\_SiteMeasurementsIndexPhysicalQuantity**

**Abstract** no

### XML Instance Representation

```

<...
  index="xs:int [1]">
  <roa:physicalQuantity> roa:PhysicalQuantity </roa:physicalQuantity> [1]
</...>

```

### Schema Component Representation

```

<xs:complexType name="_SiteMeasurementsIndexPhysicalQuantity">
  <xs:sequence>
    <xs:element name="physicalQuantity" type="roa:PhysicalQuantity"
      minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="index" type="xs:int" use="required"/>
</xs:complexType>

```

## 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>
```

## Simple Type: **DensityVehiclesPerKilometre**

*Super-types:* [com:NonNegativeInteger](#) < [DensityVehiclesPerKilometre](#) (by restriction)

*Sub-types:* None

**Name** [DensityVehiclesPerKilometre](#)

**Content**

- 'NonNegativeInteger' super type was not found in this schema. Its facets could not be printed out.

**Documentation** A measure of traffic density defined in number of vehicles per kilometre of road.

### Schema Component Representation

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

## Simple Type: **MeasuredOrDerivedDataTypeEnum**

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

*Sub-types:*

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

**Name** [MeasuredOrDerivedDataTypeEnum](#)

**Content**

- Base XSD Type: string

- *value* comes from list:  
{'trafficConcentration'|'trafficFlow'|'trafficGap'|'trafficHeadway'|'trafficSpeed'|'\_extended'}

**Documentation** Types of measured or derived data.

### Schema Component Representation

```
<xs:simpleType name="MeasuredOrDerivedDataTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="trafficConcentration"/>
    <xs:enumeration value="trafficFlow"/>
    <xs:enumeration value="trafficGap"/>
    <xs:enumeration value="trafficHeadway"/>
    <xs:enumeration value="trafficSpeed"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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## Simple Type: PassengerCarUnitsPerHour

*Super-types:* [com:NonNegativeInteger](#) < PassengerCarUnitsPerHour (by restriction)

*Sub-types:* None

**Name** PassengerCarUnitsPerHour

**Content**

- 'NonNegativeInteger' super type was not found in this schema. Its facets could not be printed out.

**Documentation** Passenger car units per hour.

### Schema Component Representation

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

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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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## Simple Type: **VehiclesPerDay**

*Super-types:*        [com:NonNegativeInteger](#) < **VehiclesPerDay** (by restriction)

*Sub-types:*         None

**Name**                                VehiclesPerDay

**Content**

- 'NonNegativeInteger' super type was not found in this schema. Its facets could not be printed out.

**Documentation**                      A rate of vehicle flow in units of vehicles per day

### Schema Component Representation

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

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