

Realis ITS

Version 06.12.2022

DatexII 3.3 profile realisweather-3.0

DATEXII_3_CommonExtension

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Schema Document Properties

Target Namespace	http://datex2.eu/schema/3/commonExtension
Version	3.3
Element and Attribute Namespaces	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• This schema imports schema(s) from the following namespace(s):<ul style="list-style-type: none">◦ http://datex2.eu/schema/3/common (at DATEXII_3_Common.xsd)

Declared Namespaces

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

Schema Component Representation

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

Name	DayWeekMonthExtended
-------------	----------------------

Abstract	no
Documentation	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

Name	FuzzyPeriod
Abstract	no
Documentation	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

Name	PeriodExtended
Abstract	no
Documentation	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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 - [Complex Type: PeriodExtensionType](#)
 - [Complex Type: PollutantTypeEnum](#)
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 - [Complex Type: PublicEventTypeEnum](#)
 - [Complex Type: SourceTypeEnum](#)
 - [Complex Type: SpecialDayTypeEnum](#)
 - [Complex Type: TimePrecisionEnum](#)
 - [Complex Type: WeatherRelatedRoadConditionTypeEnum](#)
 - [Simple Type: AngleInDegrees](#)
 - [Simple Type: Boolean](#)
 - [Simple Type: CalendarWeekWithinMonthEnum](#)
 - [Simple Type: ConcentrationKilogramsPerCubicMetre](#)
 - [Simple Type: ConcentrationMicrogramsPerCubicMetre](#)
 - [Simple Type: ConfidentialityValueEnum](#)
 - [Simple Type: CountryCode](#)
 - [Simple Type: DateTime](#)
 - [Simple Type: DayEnum](#)
 - [Simple Type: Float](#)
 - [Simple Type: InformationDeliveryServicesEnum](#)
 - [Simple Type: InformationStatusEnum](#)
 - [Simple Type: InstanceOfDayEnum](#)
 - [Simple Type: Integer](#)
 - [Simple Type: IntensityKilogramsPerSquareMetre](#)
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 - [Simple Type: Language](#)
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 - [Simple Type: PublicEventTypeEnum](#)
 - [Simple Type: SourceTypeEnum](#)
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 - [Simple Type: Time](#)
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Schema Document Properties

Target Namespace	http://datex2.eu/schema/3/common
Version	3.3

Element and Attribute Namespaces

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

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	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
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: **ApplicationRateValue**

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

Name: ApplicationRateValue
Abstract: no
Documentation: A measured or calculated value of the application rate of a substance.

XML Instance Representation

```
<...>
  <com:dataValueExtension> com:_ExtensionType </com:dataValueExtension> [0..1]
  <com:applicationRate> com:IntensityKilogramsPerSquareMetre </com:applicationRate> [1] ?
  <com:_applicationRateValueExtension> com:_ExtensionType </com:_applicationRateValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ApplicationRateValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="applicationRate" type="com:IntensityKilogramsPerSquareMetre" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="_applicationRateValueExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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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>
```

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

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Complex Type: **DataValue**

Super-types: None

Sub-types:

- [ApplicationRateValue](#) (by extension)
- [DirectionBearingValue](#) (by extension)
- [FloatingPointMetreDistanceValue](#) (by extension)
- [IntegerMetreDistanceValue](#) (by extension)
- [KilogramsConcentrationValue](#) (by extension)
- [MicrogramsConcentrationValue](#) (by extension)
- [PercentageValue](#) (by extension)
- [PrecipitationIntensityValue](#) (by extension)
- [TemperatureValue](#) (by extension)
- [WindSpeedValue](#) (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **DayWeekMonth**

Super-types: None

Sub-types:

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

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **DirectionBearingValue**

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

Sub-types: None

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

XML Instance Representation

```
<...>
  <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
  <com:directionBearing> com:AngleInDegrees </com:directionBearing> [1] ?
  <com:_directionBearingValueExtension> com:_ExtensionType </com:_directionBearingValueExtension> [0..1]
</...>
```



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

Schema Component Representation

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

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Complex Type: FloatingPointMetreDistanceValue

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

Name FloatingPointMetreDistanceValue
Abstract no
Documentation 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

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: Humidity

Super-types: None
Sub-types: None

Name Humidity
Abstract no
Documentation Details of atmospheric humidity.

XML Instance Representation

```
<...>
  <com:relativeHumidity> com:PercentageValue </com:relativeHumidity> [1] ?
  <com:_humidityExtension> com:_ExtensionType </com:_humidityExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Humidity">
  <xs:sequence>
    <xs:element name="relativeHumidity" type="com:PercentageValue"/>
    <xs:element name="_humidityExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: InstanceOfDayWithinMonth

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

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

XML Instance Representation

```
<...>
  <com:applicableDay> com:_DayEnum </com:applicableDay> [0..7] ?
  <com:applicableMonth> com:_MonthOfYearEnum </com:applicableMonth> [0..12] ?
  <com:_dayWeekMonthExtension> com:_DayWeekMonthExtensionType </com:_dayWeekMonthExtension> [0..1]
  <com:applicableInstanceOfDayWithinMonth> com:_InstanceOfDayEnum </com:applicableInstanceOfDayWithinMonth> [1..5] ?
  <com:_instanceOfDayWithinMonthExtension> com:_ExtensionType </com:_instanceOfDayWithinMonthExtension> [0..1]
</...>
```

Schema Component Representation

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

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Complex Type: IntegerMetreDistanceValue

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

Name IntegerMetreDistanceValue
Abstract no
Documentation A measured or calculated value of distance in whole metres.

XML Instance Representation

```
<...>
  <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
  <com:integerMetreDistance> com:MetresAsNonNegativeInteger </com:integerMetreDistance> [1] ?
  <com:_integerMetreDistanceValueExtension> com:_ExtensionType </com:_integerMetreDistanceValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="IntegerMetreDistanceValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="integerMetreDistance" type="com:MetresAsNonNegativeInteger" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_integerMetreDistanceValueExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: InternationalIdentifier

Super-types: None
Sub-types: None

Name InternationalIdentifier

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: KilogramsConcentrationValue

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

Name KilogramsConcentrationValue
Abstract no
Documentation A measured or calculated value of concentration of a substance in kilograms per unit volume.

XML Instance Representation

```
<...>  
<com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]  
<com:kilogramsConcentration> com:ConcentrationKilogramsPerCubicMetre </com:kilogramsConcentration> [1] ?  
<com:_kilogramsConcentrationValueExtension> com:_ExtensionType </com:_kilogramsConcentrationValueExtension> [0..1]  
</...>
```

Schema Component Representation

```
<xs:complexType name="KilogramsConcentrationValue">  
  <xs:complexContent>  
    <xs:extension base="com:DataValue">  
      <xs:sequence>  
        <xs:element name="kilogramsConcentration" type="com:ConcentrationKilogramsPerCubicMetre" minOccurs="1" maxOccurs="1"/>  
        <xs:element name="_kilogramsConcentrationValueExtension" type="com:_ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

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Complex Type: MicrogramsConcentrationValue

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

Name MicrogramsConcentrationValue
Abstract no
Documentation A measured or calculated value of concentration of a substance in micrograms per unit volume.

XML Instance Representation

```
<...>  
<com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]  
<com:microgramsConcentration> com:ConcentrationMicrogramsPerCubicMetre </com:microgramsConcentration> [1] ?  
<com:_microgramsConcentrationValueExtension> com:_ExtensionType </com:_microgramsConcentrationValueExtension> [0..1]  
</...>
```

Schema Component Representation

```
<xs:complexType name="MicrogramsConcentrationValue">  
  <xs:complexContent>  
    <xs:extension base="com:DataValue">  
      <xs:sequence>  
        <xs:element name="microgramsConcentration" type="com:ConcentrationMicrogramsPerCubicMetre" minOccurs="1" maxOccurs="1"/>  
        <xs:element name="_microgramsConcentrationValueExtension" type="com:_ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

[top](#)

Complex Type: MultilingualString

Super-types: None

Sub-types: None

Name MultilingualString
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: MultilingualStringValue

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

Name MultilingualStringValue
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

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>
```

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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>
```

[top](#)

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

```

<xs:element name="recurringSpecialDay" type="com:SpecialDay" minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="_periodExtension" type="com:_PeriodExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

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Complex Type: Pollution

Super-types: None
Sub-types: None

Name Pollution
Abstract no
Documentation Details of atmospheric pollution.

XML Instance Representation

```

<...>
<com:pollutantType> com:_PollutantTypeEnum </com:pollutantType> [1] ?
<com:pollutantConcentration> com:MicrogramsConcentrationValue </com:pollutantConcentration> [0..1] ?
<com:_pollutionExtension> com:_ExtensionType </com:_pollutionExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="Pollution">
<xs:sequence>
<xs:element name="pollutantType" type="com:_PollutantTypeEnum" minOccurs="1" maxOccurs="1"/>
<xs:element name="pollutantConcentration" type="com:MicrogramsConcentrationValue" minOccurs="0"/>
<xs:element name="_pollutionExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

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Complex Type: PrecipitationDetail

Super-types: None
Sub-types: None

Name PrecipitationDetail
Abstract no
Documentation Details of precipitation (rain, snow etc.).

XML Instance Representation

```

<...>
<com:precipitationType> com:_PrecipitationTypeEnum </com:precipitationType> [0..1] ?
<com:precipitationIntensity> com:PrecipitationIntensityValue </com:precipitationIntensity> [0..1] ?
<com:depositionDepth> com:FloatingPointMetreDistanceValue </com:depositionDepth> [0..1] ?
<com:_precipitationDetailExtension> com:_ExtensionType </com:_precipitationDetailExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="PrecipitationDetail">
<xs:sequence>
<xs:element name="precipitationType" type="com:_PrecipitationTypeEnum" minOccurs="0" maxOccurs="1"/>
<xs:element name="precipitationIntensity" type="com:PrecipitationIntensityValue" minOccurs="0"/>
<xs:element name="depositionDepth" type="com:FloatingPointMetreDistanceValue" minOccurs="0"/>
<xs:element name="_precipitationDetailExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

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Complex Type: PrecipitationIntensityValue

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

Name PrecipitationIntensityValue
Abstract no
Documentation A measured or calculated value of the accumulation rate of precipitation.

XML Instance Representation

```

<...>
<com: dataValueExtension> com:_ExtensionType </com: dataValueExtension> [0..1]
<com:millimetresPerHourIntensity> com:IntensityMillimetresPerHour </com:millimetresPerHourIntensity> [1] ?
<com:_precipitationIntensityValueExtension> com:_ExtensionType </com:_precipitationIntensityValueExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="PrecipitationIntensityValue">
<xs:complexContent>
<xs:extension base="com:DataValue">
<xs:sequence>

```

```

    <xs:element name="millimetresPerHourIntensity" type="com:IntensityMillimetresPerHour" minOccurs="1"
    maxOccurs="1"/>
    <xs:element name="_precipitationIntensityValueExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:extension>
</xs:complexType>

```

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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>

```

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Complex Type: Reference

Super-types: None
 Sub-types: None

Name Reference
Abstract no

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: RoadSurfaceConditionMeasurements

Super-types: None
 Sub-types: None

Name RoadSurfaceConditionMeasurements
Abstract no
Documentation Measurements of the road surface condition which relate specifically to the weather.

XML Instance Representation

```

<...>
  <com:temperatureBelowOrAboveRoadSurface> com:TemperatureBelowOrAboveRoadSurface
  </com:temperatureBelowOrAboveRoadSurface> [0..*] ?
  <com:roadSurfaceTemperature> com:TemperatureValue </com:roadSurfaceTemperature> [0..1] ?
  <com:protectionTemperature> com:TemperatureValue </com:protectionTemperature> [0..1] ?
  <com:deIcingApplicationRate> com:ApplicationRateValue </com:deIcingApplicationRate> [0..1] ?
  <com:deIcingConcentration> com:KilogramsConcentrationValue </com:deIcingConcentration> [0..1] ?
  <com:depthOfSnow> com:FloatingPointMetreDistanceValue </com:depthOfSnow> [0..1] ?
  <com:waterFilmThickness> com:FloatingPointMetreDistanceValue </com:waterFilmThickness> [0..1] ?
  <com:icePercentage> com:PercentageValue </com:icePercentage> [0..1] ?
  <com:_roadSurfaceConditionMeasurementsExtension> com:_ExtensionType
  </com:_roadSurfaceConditionMeasurementsExtension> [0..1]
</...>

```

Schema Component Representation

```
<xs:complexType name="RoadSurfaceConditionMeasurements">
  <xs:sequence>
    <xs:element name="temperatureBelowOrAboveRoadSurface" type="com:TemperatureBelowOrAboveRoadSurface"
      minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="roadSurfaceTemperature" type="com:TemperatureValue" minOccurs="0"/>
    <xs:element name="protectionTemperature" type="com:TemperatureValue" minOccurs="0"/>
    <xs:element name="deIcingApplicationRate" type="com:ApplicationRateValue" minOccurs="0"/>
    <xs:element name="deIcingConcentration" type="com:KilogramsConcentrationValue" minOccurs="0"/>
    <xs:element name="depthOfSnow" type="com:FloatingPointMetreDistanceValue" minOccurs="0"/>
    <xs:element name="waterFilmThickness" type="com:FloatingPointMetreDistanceValue" minOccurs="0"/>
    <xs:element name="icePercentage" type="com:PercentageValue" minOccurs="0"/>
    <xs:element name="_roadSurfaceConditionMeasurementsExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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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>
```

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Complex Type: SpecialDay

Super-types:	None
Sub-types:	<ul style="list-style-type: none">• 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>
```

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Complex Type: Temperature

Super-types:	None
Sub-types:	None

Name	Temperature
Abstract	no
Documentation	Details of atmospheric temperature.

XML Instance Representation

```
<...>
  <com:airTemperature> com:TemperatureValue </com:airTemperature> [0..1] ?
  <com:dewPointTemperature> com:TemperatureValue </com:dewPointTemperature> [0..1] ?
  <com:maximumTemperature> com:TemperatureValue </com:maximumTemperature> [0..1] ?
  <com:minimumTemperature> com:TemperatureValue </com:minimumTemperature> [0..1] ?
  <com:_temperatureExtension> com:_ExtensionType </com:_temperatureExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Temperature">
  <xs:sequence>
    <xs:element name="airTemperature" type="com:TemperatureValue" minOccurs="0"/>
    <xs:element name="dewPointTemperature" type="com:TemperatureValue" minOccurs="0"/>
    <xs:element name="maximumTemperature" type="com:TemperatureValue" minOccurs="0"/>
    <xs:element name="minimumTemperature" type="com:TemperatureValue" minOccurs="0"/>
    <xs:element name="_temperatureExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: TemperatureBelowOrAboveRoadSurface

Super-types:	None
Sub-types:	None

Name	TemperatureBelowOrAboveRoadSurface
Abstract	no
Documentation	Mesurement of temperature below or above the road surface.

XML Instance Representation

```
<...>
  <com:heightBelowOrAboveRoadSurface> com:MetresAsFloat </com:heightBelowOrAboveRoadSurface> [1] ?
  <com:temperatureBelowOrAboveRoadSurface> com:TemperatureValue </com:temperatureBelowOrAboveRoadSurface> [1] ?
  <com:_temperatureBelowOrAboveRoadSurfaceExtension> com:_ExtensionType
</com:_temperatureBelowOrAboveRoadSurfaceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TemperatureBelowOrAboveRoadSurface">
  <xs:sequence>
    <xs:element name="heightBelowOrAboveRoadSurface" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
    <xs:element name="temperatureBelowOrAboveRoadSurface" type="com:TemperatureValue"/>
    <xs:element name="_temperatureBelowOrAboveRoadSurfaceExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

[top](#)

Complex Type: TemperatureValue

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

Name	TemperatureValue
Abstract	no
Documentation	A measured or calculated value of temperature.

XML Instance Representation

```
<...>
  <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
  <com:temperature> com:TemperatureCelsius </com:temperature> [1] ?
  <com:_temperatureValueExtension> com:_ExtensionType </com:_temperatureValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TemperatureValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="temperature" type="com:TemperatureCelsius" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_temperatureValueExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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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:startTimeOfDay> com:Time </com:startTimeOfDay> [1] ?
  <com:endTimeOfDay> com:Time </com:endTimeOfDay> [1] ?
  <com:_timePeriodOfDayExtension> com:_ExtensionType </com:_timePeriodOfDayExtension> [0..1]
</...>
```

Schema Component Representation

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

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Complex Type: VersionedReference

Super-types:	None
Sub-types:	None

Name VersionedReference
Abstract no

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: Visibility

Super-types:	None
Sub-types:	None

Name Visibility
Abstract no
Documentation Details of atmospheric visibility.

XML Instance Representation

```
<...>
  <com:minimumVisibilityDistance> com:IntegerMetreDistanceValue </com:minimumVisibilityDistance> [1] ?
  <com:_visibilityExtension> com:_ExtensionType </com:_visibilityExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Visibility">
  <xs:sequence>
    <xs:element name="minimumVisibilityDistance" type="com:IntegerMetreDistanceValue"/>
    <xs:element name="_visibilityExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: Wind

Super-types:	None
Sub-types:	None

Name Wind
Abstract no
Documentation Wind conditions on the road.

XML Instance Representation

```
<...>
```

```

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

```

Schema Component Representation

```

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

```

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Complex Type: WindSpeedValue

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

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: _CalendarWeekWithinMonthEnum

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

Name _CalendarWeekWithinMonthEnum
Abstract no

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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Complex Type: _ConfidentialityValueEnum

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

Name _ConfidentialityValueEnum
Abstract no

XML Instance Representation

```

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

```

```
com:ConfidentialityValueEnum
</...>
```

Schema Component Representation

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

[top](#)

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>
```

[top](#)

Complex Type: **_DayWeekMonthExtensionType**

Super-types: None
Sub-types: None

Name [_DayWeekMonthExtensionType](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_ExtensionType**

Super-types: None
Sub-types: None

Name [_ExtensionType](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: 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>
```

[top](#)

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>
```

[top](#)

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: **_PollutantTypeEnum**

Super-types:	xs:string < PollutantTypeEnum (by restriction) < _PollutantTypeEnum (by extension)
Sub-types:	None

Name `_PollutantTypeEnum`

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_PrecipitationTypeEnum**

Super-types:	xs:string < PrecipitationTypeEnum (by restriction) < _PrecipitationTypeEnum (by extension)
Sub-types:	None

Name `_PrecipitationTypeEnum`

Abstract no

XML Instance Representation

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

Schema Component Representation

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

```
</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>
```

[top](#)

Complex Type: `_WeatherRelatedRoadConditionTypeEnum`

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

Sub-types: None

Name `_WeatherRelatedRoadConditionTypeEnum`

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Simple Type: `AngleInDegrees`

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

Sub-types: None

Name `AngleInDegrees`

Content

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

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

Schema Component Representation

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

[top](#)

Simple Type: `Boolean`

Super-types: `xs:boolean` < `Boolean` (by restriction)

Sub-types: None

Name `Boolean`

Content

- Base XSD Type: `boolean`

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

Schema Component Representation

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

[top](#)

Simple Type: CalendarWeekWithinMonthEnum

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

Sub-types:

- [_CalendarWeekWithinMonthEnum](#) (by extension)

Name: CalendarWeekWithinMonthEnum

Content:

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

Documentation: Calendar week within month (see ISO8601).

Schema Component Representation

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

[top](#)

Simple Type: ConcentrationKilogramsPerCubicMetre

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

Sub-types: None

Name: ConcentrationKilogramsPerCubicMetre

Content:

- Base XSD Type: float

Documentation: Concentration defined in kilograms per cubic metre (equivalent to grams per litre under standard conditions).

Schema Component Representation

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

[top](#)

Simple Type: ConcentrationMicrogramsPerCubicMetre

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

Sub-types: None

Name: ConcentrationMicrogramsPerCubicMetre

Content:

- Base XSD Type: float

Documentation: A measure of concentration defined in µg/m³ (micrograms/cubic metre).

Schema Component Representation

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

[top](#)

Simple Type: ConfidentialityValueEnum

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

Sub-types:

- [_ConfidentialityValueEnum](#) (by extension)

Name: ConfidentialityValueEnum

Content:

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

Documentation: Values of confidentiality.

Schema Component Representation

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

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

[top](#)

Simple Type: **CountryCode**

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

Name CountryCode
Content

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

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

Schema Component Representation

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

[top](#)

Simple Type: **DateTime**

Super-types: [xs:dateTime](#) < **DateTime** (by restriction)
Sub-types: None

Name DateTime
Content

- Base XSD Type: dateTime

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

Schema Component Representation

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

[top](#)

Simple Type: **DayEnum**

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

- [_DayEnum](#) (by extension)

Name DayEnum
Content

- Base XSD Type: string
- *value* comes from list: {'monday'|'tuesday'|'wednesday'|'thursday'|'friday'|'saturday'|'sunday'|'_extended'}

Documentation Days of the week.

Schema Component Representation

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

[top](#)

Simple Type: **Float**

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

- [ConcentrationKilogramsPerCubicMetre](#) (by restriction)
- [ConcentrationMicrogramsPerCubicMetre](#) (by restriction)
- [IntensityKilogramsPerSquareMetre](#) (by restriction)
- [IntensityMillimetresPerHour](#) (by restriction)
- [MetresAsFloat](#) (by restriction)

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

Name Float

Content

- Base XSD Type: float

Documentation A floating point number whose value space consists of the values $m \times 2^e$, where m is an integer whose absolute value is less than 2^{24} , and e is an integer between -149 and 104, inclusive.

Schema Component Representation

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

[top](#)

Simple Type: InformationDeliveryServicesEnum

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

Sub-types:

- [_InformationDeliveryServicesEnum](#) (by extension)

Name InformationDeliveryServicesEnum

Content

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

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

Schema Component Representation

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

[top](#)

Simple Type: InformationStatusEnum

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

Sub-types:

- [_InformationStatusEnum](#) (by extension)

Name InformationStatusEnum

Content

- Base XSD Type: string
- *value* comes from list: {'real'|'securityExercise'|'technicalExercise'|'test'|'_extended'}

Documentation Status of the related information (i.e. real, test or exercise).

Schema Component Representation

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

[top](#)

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

```
<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: IntensityKilogramsPerSquareMetre

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

Name IntensityKilogramsPerSquareMetre
Content

- Base XSD Type: float

Documentation A measure of the quantity of application of a substance to an area defined in kilograms per square metre.

Schema Component Representation

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

[top](#)

Simple Type: IntensityMillimetresPerHour

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

Name IntensityMillimetresPerHour
Content

- Base XSD Type: float

Documentation A measure of precipitation intensity defined in millimetres per hour.

Schema Component Representation

```
<xs:simpleType name="IntensityMillimetresPerHour">
  <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: MetresPerSecond

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

Sub-types: None

Name MetresPerSecond

Content

- Base XSD Type: float

Documentation A measure of speed defined in metres per second.

Schema Component Representation

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

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

Name NonNegativeInteger

Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

```

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

```

[top](#)

Simple Type: Percentage

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

Sub-types: None

Name Percentage

Content

- Base XSD Type: float

Documentation A measure of percentage.

Schema Component Representation

```

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

```

[top](#)

Simple Type: PollutantTypeEnum

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

Sub-types:

- [PollutantTypeEnum](#) (by extension)

Name PollutantTypeEnum

Content

- Base XSD Type: string

- *value* comes from list:
{benzeneTolueneXylene|carbonMonoxide|lead|methane|nitricOxide|nitrogenDioxide|nitrogenMonoxide|nitrogenOxides|nonMethaneHydrocart

Documentation Types of pollutant that can be measured in the atmosphere.

Schema Component Representation

```
<xs:simpleType name="PollutantTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="benzeneTolueneXylene"/>
    <xs:enumeration value="carbonMonoxide"/>
    <xs:enumeration value="lead"/>
    <xs:enumeration value="methane"/>
    <xs:enumeration value="nitricOxide"/>
    <xs:enumeration value="nitrogenDioxide"/>
    <xs:enumeration value="nitrogenMonoxide"/>
    <xs:enumeration value="nitrogenOxides"/>
    <xs:enumeration value="nonMethaneHydrocarbons"/>
    <xs:enumeration value="ozone"/>
    <xs:enumeration value="particulates10"/>
    <xs:enumeration value="polycyclicAromaticHydrocarbons"/>
    <xs:enumeration value="primaryParticulate"/>
    <xs:enumeration value="sulphurDioxide"/>
    <xs:enumeration value="totalHydrocarbons"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **PrecipitationTypeEnum**

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

Sub-types:

- [_PrecipitationTypeEnum](#) (by extension)

Name PrecipitationTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {drizzle|freezingRain|hail|rain|sleet|snow|unknown|_extended}

Documentation Types of precipitation.

Schema Component Representation

```
<xs:simpleType name="PrecipitationTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="drizzle"/>
    <xs:enumeration value="freezingRain"/>
    <xs:enumeration value="hail"/>
    <xs:enumeration value="rain"/>
    <xs:enumeration value="sleet"/>
    <xs:enumeration value="snow"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</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:restriction>
</xs:simpleType>
```

```

<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: **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*|*microwaveMonitori*

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	<ul style="list-style-type: none"> • Base XSD Type: string • <i>value</i> comes from list: {dayBeforePublicHoliday 'publicHoliday' dayFollowingPublicHoliday 'longWeekendDay' inLieuOfPublicHoliday 'schoolDay' schoolHolidays 'publicE
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:	<ul style="list-style-type: none"> • CountryCode (by restriction)

Name	String
Content	<ul style="list-style-type: none"> • Base XSD Type: string • <i>length</i> <= 1024

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

Schema Component Representation

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

[top](#)

Simple Type: TemperatureCelsius

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

Name	TemperatureCelsius
Content	<ul style="list-style-type: none"> • Base XSD Type: float

Documentation A measure of temperature defined in degrees Celsius.

Schema Component Representation

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

[top](#)

Simple Type: Time

Super-types:	xs:time < Time (by restriction)
Sub-types:	None

Name	Time
Content	<ul style="list-style-type: none"> • 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: [xs:string](#) < **TimePrecisionEnum** (by restriction)

Sub-types:

- [_TimePrecisionEnum](#) (by extension)

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: WeatherRelatedRoadConditionTypeEnum

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

Sub-types:

- [_WeatherRelatedRoadConditionTypeEnum](#) (by extension)

Name WeatherRelatedRoadConditionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{blackIce|deepSnow|dry|freezingOfWetRoads|freezingPavements|freezingRain|freshSnow|glaze|ice|iceBuildUp|iceWithWheelBarTracks|icy

Documentation Types of road surface conditions which are related to the weather.

Schema Component Representation

```
<xs:simpleType name="WeatherRelatedRoadConditionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="blackIce"/>
    <xs:enumeration value="deepSnow"/>
    <xs:enumeration value="dry"/>
    <xs:enumeration value="freezingOfWetRoads"/>
    <xs:enumeration value="freezingPavements"/>
    <xs:enumeration value="freezingRain"/>
    <xs:enumeration value="freshSnow"/>
    <xs:enumeration value="glaze"/>
    <xs:enumeration value="ice"/>
    <xs:enumeration value="iceBuildUp"/>
    <xs:enumeration value="iceWithWheelBarTracks"/>
    <xs:enumeration value="icyPatches"/>
    <xs:enumeration value="looseSnow"/>
    <xs:enumeration value="normalWinterConditionsForPedestrians"/>
    <xs:enumeration value="packedSnow"/>
    <xs:enumeration value="roadSurfaceMelting"/>
    <xs:enumeration value="slippery"/>
    <xs:enumeration value="slushOnRoad"/>
    <xs:enumeration value="slushStrings"/>
    <xs:enumeration value="snowDrifts"/>
    <xs:enumeration value="snowOnPavement"/>
    <xs:enumeration value="wetAndIcyRoad"/>
    <xs:enumeration value="snowOnTheRoad"/>
    <xs:enumeration value="wetIcyPavement"/>
    <xs:enumeration value="surfaceWater"/>
    <xs:enumeration value="wet"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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DATEXII_3_D2Payload

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- [Schema Document Properties](#)
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 - [Element: payload](#)

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Schema Document Properties

Target Namespace	http://datex2.eu/schema/3/d2Payload
Version	3.3
Element and Attribute Namespaces	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• This schema imports schema(s) from the following namespace(s):<ul style="list-style-type: none">◦ http://datex2.eu/schema/3/locationExtension (at DATEXII_3_LocationExtension.xsd)◦ http://datex2.eu/schema/3/commonExtension (at DATEXII_3_CommonExtension.xsd)◦ http://datex2.eu/schema/3/parking (at DATEXII_3_Parking.xsd)◦ http://datex2.eu/schema/3/roadTrafficData (at DATEXII_3_RoadTrafficData.xsd)◦ http://datex2.eu/schema/3/facilities (at DATEXII_3_Facilities.xsd)◦ http://datex2.eu/schema/3/locationReferencing (at DATEXII_3_LocationReferencing.xsd)◦ http://datex2.eu/schema/3/common (at DATEXII_3_Common.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
locx	http://datex2.eu/schema/3/locationExtension
comx	http://datex2.eu/schema/3/commonExtension
prk	http://datex2.eu/schema/3/parking
roa	http://datex2.eu/schema/3/roadTrafficData
fac	http://datex2.eu/schema/3/facilities
loc	http://datex2.eu/schema/3/locationReferencing
com	http://datex2.eu/schema/3/common
d2	http://datex2.eu/schema/3/d2Payload

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified"
version="3.3" targetNamespace="http://datex2.eu/schema/3/d2Payload">
  <xs:import namespace="http://datex2.eu/schema/3/locationExtension"
schemaLocation="DATEXII_3_LocationExtension.xsd"/>
```

```
<xs:import namespace="http://datex2.eu/schema/3/commonExtension"
schemaLocation="DATEXII_3_CommonExtension.xsd"/>
<xs:import namespace="http://datex2.eu/schema/3/parking"
schemaLocation="DATEXII_3_Parking.xsd"/>
<xs:import namespace="http://datex2.eu/schema/3/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**

Name	payload
Type	com:PayloadPublication
<u>Nilable</u>	no
<u>Abstract</u>	no

XML Instance Representation

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

Schema Component Representation

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

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DATEXII_3_Facilities

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

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Schema Document Properties

Target Namespace	http://datex2.eu/schema/3/facilities
Version	3.3
Element and Attribute Namespaces	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• This schema imports schema(s) from the following namespace(s):<ul style="list-style-type: none">◦ http://datex2.eu/schema/3/locationReferencing (at DATEXII_3_LocationReferencing.xsd)◦ http://datex2.eu/schema/3/common (at DATEXII_3_Common.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
loc	http://datex2.eu/schema/3/locationReferencing
com	http://datex2.eu/schema/3/common
fac	http://datex2.eu/schema/3/facilities

Schema Component Representation

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

[top](#)

Global Definitions

Simple Type: **TimeZone**

<i>Super-types:</i>	com:String < TimeZone (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: AddressLine](#)
 - [Complex Type: FacilityLocation](#)
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 - [Complex Type: SupplementaryPositionalDescriptionExtended](#)
 - [Complex Type: AddressLineTypeEnum](#)
 - [Complex Type: HouseNumberSideEnum](#)
 - [Simple Type: AddressLineTypeEnum](#)
 - [Simple Type: HouseNumberSideEnum](#)
 - [Simple Type: NamedAreaCode](#)

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Schema Document Properties

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

Version 3.3

Element and Attribute Namespaces

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

Schema Composition

- This schema imports schema(s) from the following namespace(s):
 - <http://datex2.eu/schema/3/common> (at DATEXII_3_Common.xsd)
 - <http://datex2.eu/schema/3/facilities> (at DATEXII_3_Facilities.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
com	http://datex2.eu/schema/3/common
fac	http://datex2.eu/schema/3/facilities
locx	http://datex2.eu/schema/3/locationExtension

Schema Component Representation

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

[top](#)

Global Definitions

Complex Type: Address

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

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

XML Instance Representation

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

Schema Component Representation

```

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

```

[top](#)

Complex Type: AddressLine

Super-types:	None
Sub-types:	None

Name	AddressLine
Abstract	no
Documentation	A class defining information concerning one line of a postal address.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: FacilityLocation

Super-types:	None
Sub-types:	None

Name	FacilityLocation
Abstract	no
Documentation	A location for which a time zone and an address can be specified

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: NamedAreaExtended

Super-types:	None
Sub-types:	None

Name	NamedAreaExtended
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

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

Super-types: None
Sub-types: None

Name SupplementaryPositionalDescriptionExtended
Abstract no
Documentation Extension of class SupplementaryPositionalDescription.

XML Instance Representation

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

Schema Component Representation

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

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

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

Name _AddressLineTypeEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

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

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

Name _HouseNumberSideEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Simple Type: AddressLineTypeEnum

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

Sub-types:

- [_AddressLineTypeEnum](#) (by extension)

Name AddressLineTypeEnum

Content

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

Documentation A list of supported address line types.

Schema Component Representation

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

[top](#)

Simple Type: HouseNumberSideEnum

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

Sub-types:

- [_HouseNumberSideEnum](#) (by extension)

Name HouseNumberSideEnum

Content

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

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

Schema Component Representation

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

[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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- [Simple Type: AltitudeAccuracyEnum](#)
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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	http://www.w3.org/XML/1998/namespace

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

Schema Component Representation

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

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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"> AlertCLinearByCode (by extension) AlertCMethod2Linear (by extension) AlertCMethod4Linear (by extension)

Name	AlertCLinear
Abstract	yes
Documentation	A linear section along a road defined between two points on the road by reference to a pre-defined ALERT-C location table.

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="AlertCLinear" abstract="true">
  <xs:sequence>
    <xs:element name="alertCLocationCountryCode" type="com:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="alertCLocationTableNumber" type="com:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="alertCLocationTableVersion" type="com:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_alertCLinearExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: AlertCLinearByCode

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

Sub-types: None

Name	AlertCLinearByCode
Abstract	no
Documentation	A linear section along a road defined by reference to a linear section in a pre-defined ALERT-C location table.

XML Instance Representation

```
<...>
  <loc:alertCLocationCountryCode> com:String </loc:alertCLocationCountryCode> [1] ?
  <loc:alertCLocationTableNumber> com:String </loc:alertCLocationTableNumber> [1] ?
  <loc:alertCLocationTableVersion> com:String </loc:alertCLocationTableVersion> [1] ?
  <loc:_alertCLinearExtension> com:_ExtensionType </loc:_alertCLinearExtension> [0..1]
  <loc:alertCDirection> loc:AlertCDirection </loc:alertCDirection> [1]
  <loc:locationCodeForLinearLocation> loc:AlertCLocation </loc:locationCodeForLinearLocation> [1] ?
  <loc:_alertCLinearByCodeExtension> com:_ExtensionType </loc:_alertCLinearByCodeExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCLinearByCode">
  <xs:complexContent>
    <xs:extension base="loc:AlertCLinear">
      <xs:sequence>
        <xs:element name="alertCDirection" type="loc:AlertCDirection"/>
        <xs:element name="locationCodeForLinearLocation" type="loc:AlertCLocation"/>
        <xs:element name="_alertCLinearByCodeExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: AlertCLocation

Super-types: None

Sub-types: None

Name	AlertCLocation
Abstract	no
Documentation	Identification of a specific point, linear or area location in an ALERT-C location table.

XML Instance Representation

```
<...>
  <loc:alertCLocationName> com:MultilingualString </loc:alertCLocationName> [0..1] ?
  <loc:specificLocation> loc:AlertCLocationCode </loc:specificLocation> [1] ?
  <loc:_alertCLocationExtension> com:_ExtensionType </loc:_alertCLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCLocation">
  <xs:sequence>
    <xs:element name="alertCLocationName" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="specificLocation" type="loc:AlertCLocationCode" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_alertCLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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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>
```

[top](#)

Complex Type: AlertCMethod4Point

Super-types:	AlertCPoint < AlertCMethod4Point (by extension)
Sub-types:	None

Name	AlertCMethod4Point
Abstract	no
Documentation	A single point on the road network defined by reference to a point in a pre-defined ALERT-C location table plus an offset distance and which has an associated direction of traffic flow.

XML Instance Representation

```

<...>
<loc:alertCLocationCountryCode> com:String </loc:alertCLocationCountryCode> [1] ?
<loc:alertCLocationTableNumber> com:String </loc:alertCLocationTableNumber> [1] ?
<loc:alertCLocationTableVersion> com:String </loc:alertCLocationTableVersion> [1] ?
<loc:_alertCPointExtension> com:_ExtensionType </loc:_alertCPointExtension> [0..1]
<loc:alertCDirection> loc:AlertCDirection </loc:alertCDirection> [1]
<loc:alertCMethod4PrimaryPointLocation> loc:AlertCMethod4PrimaryPointLocation
</loc:alertCMethod4PrimaryPointLocation> [1]
<loc:_alertCMethod4PointExtension> com:_ExtensionType </loc:_alertCMethod4PointExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="AlertCMethod4Point">
  <xs:complexContent>
    <xs:extension base="loc:AlertCPoint">
      <xs:sequence>
        <xs:element name="alertCDirection" type="loc:AlertCDirection"/>
        <xs:element name="alertCMethod4PrimaryPointLocation" type="loc:AlertCMethod4PrimaryPointLocation"/>
        <xs:element name="_alertCMethod4PointExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: AlertCMethod4PrimaryPointLocation

Super-types:	None
Sub-types:	None

Name	AlertCMethod4PrimaryPointLocation
Abstract	no
Documentation	The point (called Primary point) which is either a single point or at the downstream end of a linear road section. The point is specified by a reference to a point in a pre-defined ALERT-C location table plus a non-negative offset distance.

XML Instance Representation

```

<...>
<loc:alertCLocation> loc:AlertCLocation </loc:alertCLocation> [1]
<loc:offsetDistance> loc:OffsetDistance </loc:offsetDistance> [1]
<loc:_alertCMethod4PrimaryPointLocationExtension> com:_ExtensionType
</loc:_alertCMethod4PrimaryPointLocationExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="AlertCMethod4PrimaryPointLocation">
  <xs:sequence>
    <xs:element name="alertCLocation" type="loc:AlertCLocation"/>
    <xs:element name="offsetDistance" type="loc:OffsetDistance"/>
    <xs:element name="_alertCMethod4PrimaryPointLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: AlertCMethod4SecondaryPointLocation

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: AlertCPoint

Super-types: None

Sub-types:

- [AlertCMethod2Point](#) (by extension)
- [AlertCMethod4Point](#) (by extension)

Name AlertCPoint

Abstract yes

Documentation A single point on the road network defined by reference to a pre-defined ALERT-C location table and which has an associated direction of traffic flow.

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="AlertCPoint" abstract="true">
  <xs:sequence>
    <xs:element name="alertCLocationCountryCode" type="com:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="alertCLocationTableNumber" type="com:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="alertCLocationTableVersion" type="com:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_alertCPointExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

[top](#)

Complex Type: AltitudeConfidence

Super-types: None

Sub-types: None

Name AltitudeConfidence

Abstract no

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: AreaDestination

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

Sub-types: None

Name AreaDestination

Abstract no

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

XML Instance Representation

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

Schema Component Representation

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

</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>
```

[top](#)

Complex Type: **Carriageway**

Super-types: None
Sub-types: None

Name Carriageway
Abstract no
Documentation Supplementary positional information which details carriageway and lane locations. Several instances may exist where the element being described extends over more than one carriageway.

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **Destination**

Super-types: None
Sub-types:

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

Name Destination
Abstract yes

XML Instance Representation

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

Schema Component Representation

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

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

Super-types: None

Sub-types:

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

Name DistanceAlongLinearElement

Abstract yes

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

XML Instance Representation

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

Schema Component Representation

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

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

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

Sub-types: None

Name DistanceFromLinearElementReferent

Abstract no

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

XML Instance Representation

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

Schema Component Representation

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

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

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

Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: ExternalReferencing

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: GmlLineString

Super-types:	None
Sub-types:	<ul style="list-style-type: none"> • GmlLinearRing (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: GmlLinearRing

Super-types:	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

Name	HeightCoordinate
Abstract	no
Documentation	Third coordinate for points defined geodetically

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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Complex Type: **isoNamedArea**

Super-types:	NamedArea < NamedArea (by extension) < isoNamedArea (by extension)
Sub-types:	None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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Complex Type: **Itinerary**

Super-types:	LocationReference < Itinerary (by extension)
Sub-types:	<ul style="list-style-type: none"> ItineraryByIndexedLocations (by extension) ItineraryByReference (by extension)

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```



```

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

```

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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>

```

[top](#)

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>
```

[top](#)

Complex Type: **LinearElementByLineString**

Super-types: [LinearElement](#) < **LinearElementByLineString** (by extension)

Sub-types: None

Name LinearElementByLineString
Abstract no
Documentation A linear element defined by a line string (class GmlLineString).

XML Instance Representation

```
<...>
  <loc:roadName> com:MultilingualString </loc:roadName> [0..1] ?
  <loc:roadNumber> com:String </loc:roadNumber> [0..1] ?
  <loc:linearElementReferenceModel> com:String </loc:linearElementReferenceModel> [0..1] ?
  <loc:linearElementReferenceModelVersion> com:String </loc:linearElementReferenceModelVersion> [0..1] ?
  <loc:linearElementNature> loc:LinearElementNatureEnum </loc:linearElementNature> [0..1] ?
  <loc:linearElementExtension> com:ExtensionType </loc:linearElementExtension> [0..1]
  <loc:gmlLineString> loc:GmlLineString </loc:gmlLineString> [1]
  <loc:_linearElementByLineStringExtension> com:ExtensionType </loc:_linearElementByLineStringExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearElementByLineString">
  <xs:complexContent>
    <xs:extension base="loc:LinearElement">
      <xs:sequence>
        <xs:element name="gmlLineString" type="loc:GmlLineString"/>
        <xs:element name="_linearElementByLineStringExtension" type="com:ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: **LinearElementByPoints**

Super-types: [LinearElement](#) < **LinearElementByPoints** (by extension)

Sub-types: None

Name LinearElementByPoints
Abstract no
Documentation A linear element along a single linear object defined by its start and end points.

XML Instance Representation

```
<...>
  <loc:roadName> com:MultilingualString </loc:roadName> [0..1] ?
  <loc:roadNumber> com:String </loc:roadNumber> [0..1] ?
  <loc:linearElementReferenceModel> com:String </loc:linearElementReferenceModel> [0..1] ?
  <loc:linearElementReferenceModelVersion> com:String </loc:linearElementReferenceModelVersion> [0..1] ?
  <loc:linearElementNature> loc:LinearElementNatureEnum </loc:linearElementNature> [0..1] ?
  <loc:linearElementExtension> com:ExtensionType </loc:linearElementExtension> [0..1]
  <loc:startPointOfLinearElement> loc:Referent </loc:startPointOfLinearElement> [1] ?
  <loc:intermediatePointOnLinearElement> loc:IntermediatePointOnLinearElement
  </loc:intermediatePointOnLinearElement> [0..*] ?
  <loc:endPointOfLinearElement> loc:Referent </loc:endPointOfLinearElement> [1] ?
  <loc:_linearElementByPointsExtension> com:ExtensionType </loc:_linearElementByPointsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearElementByPoints">
  <xs:complexContent>
    <xs:extension base="loc:LinearElement">
      <xs:sequence>
        <xs:element name="startPointOfLinearElement" type="loc:Referent"/>
        <xs:element name="intermediatePointOnLinearElement" type="loc:IntermediatePointOnLinearElement"
          minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="endPointOfLinearElement" type="loc:Referent"/>
        <xs:element name="_linearElementByPointsExtension" type="com:ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: **LinearLocation**

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

Sub-types:

- [SingleRoadLinearLocation](#) (by extension)

Name LinearLocation

Abstract

no

Documentation

Location representing a linear section with optional directionality defined between two points.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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

Super-types: None

Sub-types: None

Name LinearWithinLinearElement**Abstract**

no

Documentation

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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

Sub-types:

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

Name Location**Abstract**

yes

Documentation

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

XML Instance Representation

<...>

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: LocationByReference

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

Sub-types: None

Name LocationByReference

Abstract no

Documentation A location defined by reference to a predefined location.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: LocationGroup

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

Sub-types:

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

Name LocationGroup

Abstract yes

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: LocationGroupByList

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

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: LocationGroupByReference

Super-types:	LocationReference < LocationGroup (by extension) < LocationGroupByReference (by extension)
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: LocationReference

Super-types:	None
Sub-types:	<ul style="list-style-type: none"> • Itinerary (by extension) <ul style="list-style-type: none"> ◦ ItineraryByIndexedLocations (by extension) ◦ ItineraryByReference (by extension) • Location (by extension) <ul style="list-style-type: none"> ◦ AreaLocation (by extension) ◦ LocationByReference (by extension) ◦ NetworkLocation (by extension) <ul style="list-style-type: none"> ▪ LinearLocation (by extension) <ul style="list-style-type: none"> ▪ SingleRoadLinearLocation (by extension) ▪ PointLocation (by extension) • LocationGroup (by extension) <ul style="list-style-type: none"> ◦ LocationGroupByList (by extension) ◦ LocationGroupByReference (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: NamedArea

Super-types: NamedArea < NamedArea (by extension)

Sub-types:

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

Name NamedArea

Abstract no

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: NetworkLocation

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

Sub-types:

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

Name NetworkLocation

Abstract yes

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: NutsNamedArea

Super-types:	NamedArea < NamedArea (by extension) < NutsNamedArea (by extension)
Sub-types:	None

Name	NutsNamedArea
Abstract	no
Documentation	The NUTS-Code representation for the named area (Nomenclature of territorial units for statistics) or its LAU code representation (Local Administrative Unit).

XML Instance Representation

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

Schema Component Representation

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

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"> • OpenlrCircleLocationReference (by extension) • OpenlrClosedLineLocationReference (by extension) • OpenlrGridLocationReference (by extension) • OpenlrPolygonLocationReference (by extension) • OpenlrRectangleLocationReference (by extension)

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

XML Instance Representation

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

Schema Component Representation


```

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

```

[top](#)

Complex Type: OpenlrBasePointLocation

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

Sub-types:

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

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrBaseReferencePoint

Super-types: None

Sub-types:

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

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrCircleLocationReference

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

Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: OpenlrClosedLineLocationReference

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: OpenlrGeoCoordinate

Super-types: [OpenlrPointLocationReference](#) < OpenlrGeoCoordinate (by extension)
Sub-types: None

Name OpenlrGeoCoordinate
Abstract no
Documentation A geo-coordinate pair is a position in a map defined by its longitude and latitude coordinate values.

XML Instance Representation

```
<...>
  <loc:_openlrPointLocationReferenceExtension> com:_ExtensionType </loc:_openlrPointLocationReferenceExtension>
  [0..1]
  <loc:openlrCoordinates> loc:PointCoordinates </loc:openlrCoordinates> [1] ?
  <loc:_openlrGeoCoordinateExtension> com:_ExtensionType </loc:_openlrGeoCoordinateExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrGeoCoordinate">
  <xs:complexContent>
    <xs:extension base="loc:OpenlrPointLocationReference">
      <xs:sequence>
        <xs:element name="openlrCoordinates" type="loc:PointCoordinates"/>
        <xs:element name="_openlrGeoCoordinateExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: OpenlrGridLocationReference

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: OpenlrLastLocationReferencePoint

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

Name OpenlrLastLocationReferencePoint
Abstract no
Documentation The sequence of location reference points is terminated by a last location reference point.

XML Instance Representation

```
<...>
  <loc:openlrCoordinates> loc:PointCoordinates </loc:openlrCoordinates> [1] ?
  <loc:openlrLineAttributes> loc:OpenlrLineAttributes </loc:openlrLineAttributes> [1] ?
  <loc:openlrBaseReferencePointExtension> com:ExtensionType </loc:openlrBaseReferencePointExtension> [0..1]
  <loc:_openlrLastLocationReferencePointExtension> com:ExtensionType
</loc:_openlrLastLocationReferencePointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrLastLocationReferencePoint">
  <xs:complexContent>
    <xs:extension base="loc:OpenlrBaseReferencePoint">
      <xs:sequence>
        <xs:element name="_openlrLastLocationReferencePointExtension" type="com:ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: OpenlrLineAttributes

Super-types: None
Sub-types: None

Name OpenlrLineAttributes
Abstract no
Documentation Line attributes are part of a location reference point and consists of functional road class (FRC), form of way (FOW) and bearing (BEAR) data.

XML Instance Representation

```
<...>
  <loc:openlrFunctionalRoadClass> loc:_OpenlrFunctionalRoadClassEnum </loc:openlrFunctionalRoadClass> [1] ?
  <loc:openlrFormOfWay> loc:_OpenlrFormOfWayEnum </loc:openlrFormOfWay> [1] ?
  <loc:openlrBearing> com:AngleInDegrees </loc:openlrBearing> [1] ?
  <loc:_openlrLineAttributesExtension> com:ExtensionType </loc:_openlrLineAttributesExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrLineAttributes">
  <xs:sequence>
```

```

<xs:element name="openlrFunctionalRoadClass" type="loc:_OpenlrFunctionalRoadClassEnum" minOccurs="1"
maxOccurs="1"/>
<xs:element name="openlrFormOfWay" type="loc:_OpenlrFormOfWayEnum" minOccurs="1" maxOccurs="1"/>
<xs:element name="openlrBearing" type="com:AngleInDegrees" minOccurs="1" maxOccurs="1"/>
<xs:element name="_openlrLineAttributesExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: OpenlrLineLocationReference

Super-types: None
Sub-types: None

Name OpenlrLineLocationReference
Abstract no
Documentation A line location reference is defined by an ordered sequence of location reference points and a terminating last location reference point.

XML Instance Representation

```

<...>
  <loc:openlrLocationReferencePoint> loc:OpenlrLocationReferencePoint </loc:openlrLocationReferencePoint> [1..*]
  <loc:openlrLastLocationReferencePoint> loc:OpenlrLastLocationReferencePoint
</loc:openlrLastLocationReferencePoint> [1]
  <loc:openlrOffsets> loc:OpenlrOffsets </loc:openlrOffsets> [0..1] ?
  <loc:_openlrLineLocationReferenceExtension> com:_ExtensionType </loc:_openlrLineLocationReferenceExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="OpenlrLineLocationReference">
  <xs:sequence>
    <xs:element name="openlrLocationReferencePoint" type="loc:OpenlrLocationReferencePoint" maxOccurs="unbounded"/>
    <xs:element name="openlrLastLocationReferencePoint" type="loc:OpenlrLastLocationReferencePoint"/>
    <xs:element name="openlrOffsets" type="loc:OpenlrOffsets" minOccurs="0"/>
    <xs:element name="_openlrLineLocationReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: OpenlrLinear

Super-types: None
Sub-types: None

Name OpenlrLinear
Abstract no
Documentation OpenLR line location reference

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrLocationReferencePoint

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

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

XML Instance Representation

```

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

```

Schema Component Representation

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

[top](#)

Complex Type: OpenlrOffsets

Super-types: None
Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: OpenlrPathAttributes

Super-types: None
Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: OpenlrPoiWithAccessPoint

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

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

XML Instance Representation

```
<...>
```

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: **OpenlrPointAlongLine**

Super-types:	OpenlrPointLocationReference < OpenlrBasePointLocation (by extension) < OpenlrPointAlongLine (by extension)
Sub-types:	None

Name	OpenlrPointAlongLine
Abstract	no
Documentation	Point along a line

XML Instance Representation

```

<...>
<loc:_openlrPointLocationReferenceExtension> com: _ExtensionType </loc:_openlrPointLocationReferenceExtension>
[0..1]
<loc:openlrSideOfRoad> loc: _OpenlrSideOfRoadEnum </loc:openlrSideOfRoad> [1] ?
<loc:openlrOrientation> loc: _OpenlrOrientationEnum </loc:openlrOrientation> [1] ?
<loc:openlrLocationReferencePoint> loc: _OpenlrLocationReferencePoint </loc:openlrLocationReferencePoint> [1] ?
<loc:openlrLastLocationReferencePoint> loc: _OpenlrLastLocationReferencePoint
</loc:openlrLastLocationReferencePoint> [1] ?
<loc:openlrOffsets> loc: _OpenlrOffsets </loc:openlrOffsets> [0..1] ?
<loc:_openlrBasePointLocationExtension> com: _ExtensionType </loc:_openlrBasePointLocationExtension> [0..1]
<loc:_openlrPointAlongLineExtension> com: _ExtensionType </loc:_openlrPointAlongLineExtension> [0..1]
</...>

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: **OpenlrPointLocationReference**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"> • OpenlrBasePointLocation (by extension) <ul style="list-style-type: none"> ◦ OpenlrPointAlongLine (by extension) ◦ OpenlrPoiWithAccessPoint (by extension) • OpenlrGeoCoordinate (by extension)

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: **OpenlrPolygonCorners**

Super-types: None
Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **OpenlrPolygonLocationReference**

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **OpenlrRectangle**

Super-types: None
Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **OpenlrRectangleLocationReference**

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

Name OpenlrRectangleLocationReference
Abstract no
Documentation The openLR method of area definition by providing a rectangular shape defined by two geo-coordinate pairs

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **PercentageDistanceAlongLinearElement**

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **PointAlongLinearElement**

Super-types: None
Sub-types: None

Name PointAlongLinearElement
Abstract no
Documentation A point on a linear element where the linear element is either a part of or the whole of a linear object (i.e. a road), consistent with EN ISO 19148 definitions.

XML Instance Representation

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

Schema Component Representation


```

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

```

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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>

```

[top](#)

Complex Type: PointCoordinates

Super-types: None
Sub-types: None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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

Name	TpegDescriptor
Abstract	yes
Documentation	A collection of information providing descriptive references to locations using the TPEG-Loc location referencing approach.

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: TpegFramedPoint

Super-types:	TpegPointLocation < TpegFramedPoint (by extension)
Sub-types:	None

Name	TpegFramedPoint
Abstract	no
Documentation	A point on the road network which is framed between two other points on the same road.

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: TpegGeometricArea

Super-types:	TpegAreaLocation < TpegGeometricArea (by extension)
Sub-types:	None

Name	TpegGeometricArea
Abstract	no
Documentation	A geometric area defined by a centre point and a radius.

XML Instance Representation

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

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: TpegHeight

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: TpegIlcPointDescriptor

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

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

XML Instance Representation

```

<...>
<loc:descriptor> com:MultilingualString </loc:descriptor> [1] ?
<loc:_tpegDescriptorExtension> com:_ExtensionType </loc:_tpegDescriptorExtension> [0..1]
<loc:_tpegPointDescriptorExtension> com:_ExtensionType </loc:_tpegPointDescriptorExtension> [0..1]
<loc:tpegIlcPointDescriptorType> loc:_TpegLoc03IlcPointDescriptorSubTypeEnum </loc:tpegIlcPointDescriptorType> [1] ?
<loc:_tpegIlcPointDescriptorExtension> com:_ExtensionType </loc:_tpegIlcPointDescriptorExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="TpegIlcPointDescriptor">
  <xs:complexContent>
    <xs:extension base="loc:TpegPointDescriptor">
      <xs:sequence>
        <xs:element name="tpegIlcPointDescriptorType" type="loc:_TpegLoc03IlcPointDescriptorSubTypeEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_tpegIlcPointDescriptorExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: TpegJunction

Super-types:	TpegPoint < TpegJunction (by extension)
Sub-types:	None

Name	TpegJunction
-------------	--------------

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: TpegJunctionPointDescriptor

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: TpegLinearLocation

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

```

[top](#)

Complex Type: TpegNamedOnlyArea

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

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

XML Instance Representation

```

<...>
<loc:tpegAreaLocationType> loc:_TpegLoc01AreaLocationSubTypeEnum </loc:tpegAreaLocationType> [1] ?
<loc:tpegHeight> loc:TpegHeight </loc:tpegHeight> [0..1]
<loc:_tpegAreaLocationExtension> com:_ExtensionType </loc:_tpegAreaLocationExtension> [0..1]
<loc:name> loc:TpegAreaDescriptor </loc:name> [1..*] ?
<loc:_tpegNamedOnlyAreaExtension> com:_ExtensionType </loc:_tpegNamedOnlyAreaExtension> [0..1]
</...>

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: TpegNonJunctionPoint

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

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: TpegOtherPointDescriptor

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

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

XML Instance Representation

```

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

```

```

<loc:tpegOtherPointDescriptorType> loc:_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"> • TpegJunction (by extension) • TpegNonJunctionPoint (by extension)

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: TpegPointDescriptor

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

Name	TpegPointDescriptor
Abstract	yes
Documentation	A descriptor for describing a point location.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: TpegPointLocation

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

Name	TpegPointLocation
Abstract	yes

Documentation

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

XML Instance Representation

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

Schema Component Representation

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

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

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

Sub-types: None

Name TpegSimplePoint

Abstract no

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

XML Instance Representation

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

Schema Component Representation

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

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

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

Sub-types: None

Name _AlertCDirectionEnum

Abstract no

XML Instance Representation

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

Schema Component Representation

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

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

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

Sub-types: None

Name _AltitudeAccuracyEnum

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_AreaPlacesEnum](#)

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

Name [_AreaPlacesEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_CarriagewayEnum](#)

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

Name [_CarriagewayEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_DirectionEnum](#)

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

Name [_DirectionEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

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

[top](#)

Complex Type: DirectionPurposeEnum

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

Name [_DirectionPurposeEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: GeographicCharacteristicEnum

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

Name [_GeographicCharacteristicEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: HeightGradeEnum

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

Name [_HeightGradeEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: HeightTypeEnum

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

Sub-types: None

Name: `_HeightTypeEnum`
Abstract: no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: `_InfrastructureDescriptorEnum`

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

Name: `_InfrastructureDescriptorEnum`
Abstract: no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: `_IntermediatePointOnLinearElement`

Super-types: None
Sub-types: None

Name: `_IntermediatePointOnLinearElement`
Abstract: no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: `_LaneEnum`

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

Name: `_LaneEnum`
Abstract: no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_LinearDirectionEnum](#)

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

Sub-types: None

Name [_LinearDirectionEnum](#)

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_LinearElementNatureEnum](#)

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

Sub-types: None

Name [_LinearElementNatureEnum](#)

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_LocationContainedInItinerary](#)

Super-types: None

Sub-types: None

Name [_LocationContainedInItinerary](#)

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: LocationReferenceExtensionType

Super-types:	None
Sub-types:	None

Name LocationReferenceExtensionType

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: NamedAreaExtensionType

Super-types:	None
Sub-types:	None

Name NamedAreaExtensionType

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: NamedAreaTypeEnum

Super-types:	xs:string < NamedAreaTypeEnum (by restriction) < <u>NamedAreaTypeEnum</u> (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) < <u>NutsCodeTypeEnum</u> (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>
```

[top](#)

Complex Type: `_PredefinedLocationVersionedReference`

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

Sub-types: None

Name `_PredefinedLocationVersionedReference`
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: `_ReferentTypeEnum`

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

Sub-types: None

Name `_ReferentTypeEnum`
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: `_RelativePositionOnCarriagewayEnum`

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

Sub-types: None

Name `_RelativePositionOnCarriagewayEnum`
Abstract no

XML Instance Representation

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

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

Schema Component Representation

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

[top](#)

Complex Type: **_SubdivisionTypeEnum**

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

Name [_SubdivisionTypeEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_SupplementaryPositionalDescriptionExtensionType**

Super-types: None
Sub-types: None

Name [_SupplementaryPositionalDescriptionExtensionType](#)
Abstract no

XML Instance Representation

```
<...>
  <loc:supplementaryPositionalDescriptionExtended> 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>
```

[top](#)

Complex Type: **_TpegLoc01AreaLocationSubtypeEnum**

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

Name [_TpegLoc01AreaLocationSubtypeEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

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

[top](#)

Complex Type: [_TpegLoc01FramedPointLocationSubtypeEnum](#)

Super-types: [xs:string](#) < [TpegLoc01FramedPointLocationSubtypeEnum](#) (by restriction) < [_TpegLoc01FramedPointLocationSubtypeEnum](#) (by extension)

Sub-types: None

Name [_TpegLoc01FramedPointLocationSubtypeEnum](#)

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_TpegLoc01LinearLocationSubtypeEnum](#)

Super-types: [xs:string](#) < [TpegLoc01LinearLocationSubtypeEnum](#) (by restriction) < [_TpegLoc01LinearLocationSubtypeEnum](#) (by extension)

Sub-types: None

Name [_TpegLoc01LinearLocationSubtypeEnum](#)

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_TpegLoc01SimplePointLocationSubtypeEnum](#)

Super-types: [xs:string](#) < [TpegLoc01SimplePointLocationSubtypeEnum](#) (by restriction) < [_TpegLoc01SimplePointLocationSubtypeEnum](#) (by extension)

Sub-types: None

Name [_TpegLoc01SimplePointLocationSubtypeEnum](#)

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_TpegLoc03AreaDescriptorSubtypeEnum](#)

Super-types: [xs:string](#) < [TpegLoc03AreaDescriptorSubtypeEnum](#) (by restriction) < [_TpegLoc03AreaDescriptorSubtypeEnum](#) (by extension)

extension)	
Sub-types:	None

Name `_TpegLoc03AreaDescriptorSubtypeEnum`
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: `_TpegLoc03IlcPointDescriptorSubtypeEnum`

Super-types:	xs:string < TpegLoc03IlcPointDescriptorSubtypeEnum (by restriction) < _TpegLoc03IlcPointDescriptorSubtypeEnum (by extension)
Sub-types:	None

Name `_TpegLoc03IlcPointDescriptorSubtypeEnum`
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: `_TpegLoc03JunctionPointDescriptorSubtypeEnum`

Super-types:	xs:string < TpegLoc03JunctionPointDescriptorSubtypeEnum (by restriction) < _TpegLoc03JunctionPointDescriptorSubtypeEnum (by extension)
Sub-types:	None

Name `_TpegLoc03JunctionPointDescriptorSubtypeEnum`
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: `_TpegLoc03OtherPointDescriptorSubtypeEnum`

Super-types:	xs:string < TpegLoc03OtherPointDescriptorSubtypeEnum (by restriction) < _TpegLoc03OtherPointDescriptorSubtypeEnum (by extension)
Sub-types:	None

Name `_TpegLoc03OtherPointDescriptorSubtypeEnum`
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_TpegLoc04HeightTypeEnum**

Super-types: [xs:string](#) < [TpegLoc04HeightTypeEnum](#) (by restriction) < [_TpegLoc04HeightTypeEnum](#) (by extension)

Sub-types: None

Name: [_TpegLoc04HeightTypeEnum](#)

Abstract: no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Simple Type: **AlertCDirectionEnum**

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

Sub-types: [AlertCDirectionEnum](#) (by extension)

Name: AlertCDirectionEnum

Content:

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

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

Schema Component Representation

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

[top](#)

Simple Type: **AlertCLocationCode**

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

Sub-types: None

Name: AlertCLocationCode

Content:

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

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

Schema Component Representation

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

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>
```

[top](#)

Simple Type: DirectionEnum

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

Sub-types:

- [_DirectionEnum](#) (by extension)

Name DirectionEnum

Content

- Base XSD Type: string
- *value* comes from list:
{aligned|'allDirections|'anticlockwise|'bothWays|'clockwise|'innerRing|'outerRing|'eastBound|'northBound|'northEastBound|'northWestBound|'sou

Documentation List of directions of travel.

Schema Component Representation

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

[top](#)

Simple Type: DirectionPurposeEnum

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

Sub-types:

- [_DirectionPurposeEnum](#) (by extension)

Name DirectionPurposeEnum

Content

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

Documentation Main purpose of a direction of a road

Schema Component Representation

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

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

[top](#)

Simple Type: GeographicCharacteristicEnum

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

Sub-types:

- [_GeographicCharacteristicEnum](#) (by extension)

Name GeographicCharacteristicEnum

Content

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

Documentation Descriptor to help to identify a specific location.

Schema Component Representation

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

[top](#)

Simple Type: GmlPosList

Super-types: [com:LongString](#) < **GmlPosList** (by restriction)

Sub-types: None

Name GmlPosList

Content

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

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

Schema Component Representation

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

[top](#)

Simple Type: HeightGradeEnum

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

Sub-types:

- [_HeightGradeEnum](#) (by extension)

Name HeightGradeEnum

Content

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

Documentation List of height or vertical gradings of road sections.

Schema Component Representation

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

[top](#)

Simple Type: HeightTypeEnum

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

Sub-types:

- [_HeightTypeEnum](#) (by extension)

Name HeightTypeEnum

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

Schema Component Representation

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

[top](#)

Simple Type: InfrastructureDescriptorEnum

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

Sub-types:

- [_InfrastructureDescriptorEnum](#) (by extension)

Name InfrastructureDescriptorEnum

Content

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

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

Schema Component Representation

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

[top](#)

Simple Type: LaneEnum

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

Sub-types:

- [_LaneEnum](#) (by extension)

Name LaneEnum

Content

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

Documentation List of descriptors identifying specific lanes.

Schema Component Representation

```
<xs:simpleType name="LaneEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="allLanesCompleteCarriageway"/>
    <xs:enumeration value="busLane"/>
    <xs:enumeration value="busStop"/>
    <xs:enumeration value="carPoolLane"/>
    <xs:enumeration value="centralReservation"/>
    <xs:enumeration value="crawlerLane"/>
    <xs:enumeration value="cycleLane"/>
    <xs:enumeration value="emergencyLane"/>
    <xs:enumeration value="escapeLane"/>
    <xs:enumeration value="expressLane"/>
    <xs:enumeration value="hardShoulder"/>
    <xs:enumeration value="heavyVehicleLane"/>
    <xs:enumeration value="layBy"/>
    <xs:enumeration value="leftHandTurningLane"/>
    <xs:enumeration value="leftLane"/>
    <xs:enumeration value="localTrafficLane"/>
    <xs:enumeration value="middleLane"/>
  </xs: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.
- $length \leq 3$

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	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
loc	http://datex2.eu/schema/3/locationReferencing
fac	http://datex2.eu/schema/3/facilities
com	http://datex2.eu/schema/3/common
roa	http://datex2.eu/schema/3/roadTrafficData
prk	http://datex2.eu/schema/3/parking

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified"
version="1" targetNamespace="http://datex2.eu/schema/3/parking">
  <xs:import namespace="http://datex2.eu/schema/3/locationReferencing"
schemaLocation="DATEXII_3_LocationReferencing.xsd"/>
  <xs:import namespace="http://datex2.eu/schema/3/facilities"
schemaLocation="DATEXII_3_Facilities.xsd"/>
  <xs:import namespace="http://datex2.eu/schema/3/common"
schemaLocation="DATEXII_3_Common.xsd"/>
  <xs: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: PhysicalQuantity](#)
 - [Complex Type: PollutionInformation](#)
 - [Complex Type: PrecipitationInformation](#)
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 - [Complex Type: SinglePhysicalQuantity](#)
 - [Complex Type: TemperatureInformation](#)
 - [Complex Type: VisibilityInformation](#)
 - [Complex Type: WeatherData](#)
 - [Complex Type: WindInformation](#)
 - [Complex Type: TimeMeaningEnum](#)
 - [Simple Type: TimeMeaningEnum](#)

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Schema Document Properties

Target Namespace	http://datex2.eu/schema/3/roadTrafficData
Version	3.3
Element and Attribute Namespaces	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• This schema imports schema(s) from the following namespace(s):<ul style="list-style-type: none">◦ http://datex2.eu/schema/3/locationReferencing (at DATEXII_3_LocationReferencing.xsd)◦ http://datex2.eu/schema/3/common (at DATEXII_3_Common.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
loc	http://datex2.eu/schema/3/locationReferencing
com	http://datex2.eu/schema/3/common
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>
```

Global Definitions

Complex Type: **BasicData**

Super-types: None

Sub-types:

- [WeatherData](#) (by extension)
 - [HumidityInformation](#) (by extension)
 - [PollutionInformation](#) (by extension)
 - [PrecipitationInformation](#) (by extension)
 - [RoadSurfaceConditionInformation](#) (by extension)
 - [TemperatureInformation](#) (by extension)
 - [VisibilityInformation](#) (by extension)
 - [WindInformation](#) (by extension)

Name	BasicData
Abstract	yes
Documentation	Data that are either measured or calculated at the same time or over the same time period.

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="BasicData" abstract="true">
  <xs:sequence>
    <xs:element name="measurementOrCalculationTime"
      type="roa:MeasurementOrCalculationTime" minOccurs="0"/>
    <xs:element name="_basicDataExtension" type="com:_ExtensionType"
      minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

Complex Type: **ElaboratedDataPublication**

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

Sub-types: None

Name	ElaboratedDataPublication
Abstract	no
Documentation	A publication containing one or more elaborated data sets.

XML Instance Representation

```
<...>
  <!-- 'com:PayloadPublication' super type was not found in this schema.
  Some elements and attributes may be missing. -->
  <roa:headerInformation> com:HeaderInformation </roa:headerInformation> [1]
```



```

<roa:physicalQuantity> roa:PhysicalQuantity </roa:physicalQuantity> [1..*]
<roa:informationManager> com:InternationalIdentifier
</roa:informationManager> [0..1] ?
<roa:_elaboratedDataPublicationExtension> com:_ExtensionType
</roa:_elaboratedDataPublicationExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="ElaboratedDataPublication">
  <xs:complexContent>
    <xs:extension base="com:PayloadPublication">
      <xs:sequence>
        <xs:element name="headerInformation" type="com:HeaderInformation"/>
        <xs:element name="physicalQuantity" type="roa:PhysicalQuantity"
          maxOccurs="unbounded"/>
        <xs:element name="informationManager"
          type="com:InternationalIdentifier" minOccurs="0"/>
        <xs:element name="_elaboratedDataPublicationExtension"
          type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: HumidityInformation

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

Sub-types: None

Name	HumidityInformation
Abstract	no
Documentation	Measurements of atmospheric humidity.

XML Instance Representation

```

<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
  </roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:_weatherDataExtension> com:_ExtensionType
  </roa:_weatherDataExtension> [0..1]
  <roa:humidity> com:Humidity </roa:humidity> [1]
  <roa:_humidityInformationExtension> com:_ExtensionType
  </roa:_humidityInformationExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="HumidityInformation">
  <xs:complexContent>
    <xs:extension base="roa:WeatherData">
      <xs:sequence>
        <xs:element name="humidity" type="com:Humidity"/>
        <xs:element name="_humidityInformationExtension"
          type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

Complex Type: MeasurementOrCalculationTime

Super-types: None

Sub-types: None

Name MeasurementOrCalculationTime

Abstract no

Documentation Describes the time at which a measured or calculated value or set of values was measured or calculated. It may be a future time at which a data value is predicted to apply.

XML Instance Representation

```
<...
  timePrecision="com:TimePrecisionEnum [0..1] ? ">
  <roa:timeMeaning> roa:TimeMeaningEnum </roa:timeMeaning> [0..1] ?
  <roa:timeValue> com:DateTime </roa:timeValue> [0..1] ?
  <roa:period> com:Period </roa:period> [0..1] ?
  <roa:_measurementOrCalculationTimeExtension> com:ExtensionType
  </roa:_measurementOrCalculationTimeExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="MeasurementOrCalculationTime">
  <xs:sequence>
    <xs:element name="timeMeaning" type="roa:TimeMeaningEnum" minOccurs="0"
      maxOccurs="1"/>
    <xs:element name="timeValue" type="com:DateTime" minOccurs="0"
      maxOccurs="1"/>
    <xs:element name="period" type="com:Period" minOccurs="0"/>
    <xs:element name="_measurementOrCalculationTimeExtension"
      type="com:ExtensionType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="timePrecision" type="com:TimePrecisionEnum"
    use="optional"/>
</xs:complexType>
```

Complex Type: PhysicalQuantity

Super-types: None

Sub-types:

- [SinglePhysicalQuantity](#) (by extension)

Name PhysicalQuantity

Abstract yes

Documentation 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>
```

[top](#)

Complex Type: **PollutionInformation**

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

Sub-types: None

Name	PollutionInformation
Abstract	no
Documentation	Measurements of atmospheric pollution.

XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:_weatherDataExtension> com:ExtensionType
</roa:_weatherDataExtension> [0..1]
  <roa:pollution> com:Pollution </roa:pollution> [1..*]
  <roa:_pollutionInformationExtension> com:ExtensionType
  </roa:_pollutionInformationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PollutionInformation">
  <xs:complexContent>
    <xs:extension base="roa:WeatherData">
      <xs:sequence>
        <xs:element name="pollution" type="com:Pollution"
          maxOccurs="unbounded"/>
        <xs:element name="_pollutionInformationExtension"
          type="com:ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: **PrecipitationInformation**

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

Sub-types: None

Name	PrecipitationInformation
Abstract	no
Documentation	Measurements of precipitation.

XML Instance Representation

```

<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:_weatherDataExtension> com:_ExtensionType
</roa:_weatherDataExtension> [0..1]
  <roa:noPrecipitation> com:Boolean </roa:noPrecipitation> [0..1] ?
  <roa:precipitationDetail> com:PrecipitationDetail
</roa:precipitationDetail> [0..1]
  <roa:_precipitationInformationExtension> com:_ExtensionType
  </roa:_precipitationInformationExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="PrecipitationInformation">
  <xs:complexContent>
    <xs:extension base="roa:WeatherData">
      <xs:sequence>
        <xs:element name="noPrecipitation" type="com:Boolean" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="precipitationDetail"
type="com:PrecipitationDetail" minOccurs="0"/>
        <xs:element name="_precipitationInformationExtension"
type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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Complex Type: RoadSurfaceConditionInformation

Super-types:	BasicData < WeatherData (by extension) < RoadSurfaceConditionInformation (by extension)
Sub-types:	None

Name	RoadSurfaceConditionInformation
Abstract	no
Documentation	Measurements of road surface conditions which are related to the weather.

XML Instance Representation

```

<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:_weatherDataExtension> com:_ExtensionType
</roa:_weatherDataExtension> [0..1]
  <roa:weatherRelatedRoadConditionType>
  com:_WeatherRelatedRoadConditionTypeEnum
  </roa:weatherRelatedRoadConditionType> [0..*] ?
  <roa:roadSurfaceConditionMeasurements>
  com:RoadSurfaceConditionMeasurements

```

```

</roa:roadSurfaceConditionMeasurements> [1]
<roa:_roadSurfaceConditionInformationExtension> com:_ExtensionType
</roa:_roadSurfaceConditionInformationExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="RoadSurfaceConditionInformation">
  <xs:complexContent>
    <xs:extension base="roa:WeatherData">
      <xs:sequence>
        <xs:element name="weatherRelatedRoadConditionType"
          type="com:_WeatherRelatedRoadConditionTypeEnum" minOccurs="0"
          maxOccurs="unbounded"/>
        <xs:element name="roadSurfaceConditionMeasurements"
          type="com:RoadSurfaceConditionMeasurements"/>
        <xs:element name="_roadSurfaceConditionInformationExtension"
          type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: SinglePhysicalQuantity

Super-types: [PhysicalQuantity](#) < **SinglePhysicalQuantity** (by extension)

Sub-types: None

Name	SinglePhysicalQuantity
Abstract	no
Documentation	A measured or calculated physical quantity at a single instant or period in time, with related properties explaining its context, meaning or status

XML Instance Representation

```

<...>
  <roa:pertinentLocation> loc:LocationReference </roa:pertinentLocation>
  [0..1] ?
  <roa:source> com:Source </roa:source> [0..1]
  <roa:_physicalQuantityExtension> com:_ExtensionType
  </roa:_physicalQuantityExtension> [0..1]
  <roa:basicData> roa:BasicData </roa:basicData> [0..1]
  <roa:_singlePhysicalQuantityExtension> com:_ExtensionType
  </roa:_singlePhysicalQuantityExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="SinglePhysicalQuantity">
  <xs:complexContent>
    <xs:extension base="roa:PhysicalQuantity">
      <xs:sequence>
        <xs:element name="basicData" type="roa:BasicData" minOccurs="0"/>
        <xs:element name="_singlePhysicalQuantityExtension"
          type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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Complex Type: **TemperatureInformation**

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

Sub-types: None

Name TemperatureInformation

Abstract no

Documentation Measurements of atmospheric temperature.

XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:_weatherDataExtension> com:ExtensionType
</roa:_weatherDataExtension> [0..1]
  <roa:temperature> com:Temperature </roa:temperature> [1]
  <roa:_temperatureInformationExtension> com:ExtensionType
  </roa:_temperatureInformationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TemperatureInformation">
  <xs:complexContent>
    <xs:extension base="roa:WeatherData">
      <xs:sequence>
        <xs:element name="temperature" type="com:Temperature"/>
        <xs:element name="_temperatureInformationExtension"
          type="com:ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: **VisibilityInformation**

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

Sub-types: None

Name VisibilityInformation

Abstract no

Documentation Measurements of atmospheric visibility.

XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:_weatherDataExtension> com:ExtensionType
</roa:_weatherDataExtension> [0..1]
  <roa:visibility> com:Visibility </roa:visibility> [1]
  <roa:_visibilityInformationExtension> com:ExtensionType
  </roa:_visibilityInformationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VisibilityInformation">
  <xs:complexContent>
    <xs:extension base="roa:WeatherData">
      <xs:sequence>
        <xs:element name="visibility" type="com:Visibility"/>
        <xs:element name="_visibilityInformationExtension"
          type="com:ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: WeatherData

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

Sub-types:

- [HumidityInformation](#) (by extension)
- [PollutionInformation](#) (by extension)
- [PrecipitationInformation](#) (by extension)
- [RoadSurfaceConditionInformation](#) (by extension)
- [TemperatureInformation](#) (by extension)
- [VisibilityInformation](#) (by extension)
- [WindInformation](#) (by extension)

Name	WeatherData
Abstract	yes
Documentation	Measured or derived values relating to the weather at a specific location or locations.

XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:_weatherDataExtension> com:ExtensionType
  </roa:_weatherDataExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="WeatherData" abstract="true">
  <xs:complexContent>
    <xs:extension base="roa:BasicData">
      <xs:sequence>
        <xs:element name="_weatherDataExtension" type="com:ExtensionType"
          minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: WindInformation

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

Sub-types: None

Name WindInformation
Abstract no
Documentation Measurements of wind conditions.

XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
</roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:_weatherDataExtension> com:_ExtensionType
</roa:_weatherDataExtension> [0..1]
  <roa:wind> com:Wind </roa:wind> [1]
  <roa:_windInformationExtension> com:_ExtensionType
</roa:_windInformationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="WindInformation">
  <xs:complexContent>
    <xs:extension base="roa:WeatherData">
      <xs:sequence>
        <xs:element name="wind" type="com:Wind"/>
        <xs:element name="_windInformationExtension"
          type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: TimeMeaningEnum

Super-types: [xs:string](#) < [TimeMeaningEnum](#) (by restriction) < [_TimeMeaningEnum](#) (by extension)

Sub-types: None

Name [_TimeMeaningEnum](#)

Abstract no

XML Instance Representation

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

Schema Component Representation

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

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