DatexII 3.3 profile realistraveltime-3.0

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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	- Global element and attribute declarations belong to this schema's target namespace. - By default, local element declarations belong to this schema's target namespace. - By default, local attribute declarations have no namespace.
Schema Composition	- This schema imports schema(s) from the following namespace(s): *http://datex2.eu/schema/3/common* (at DATEXII_3_Common.xsd)

Declared Namespaces

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

Global Definitions

Complex Type: DayWeekMonthExtended

Super-types:	None
Sub-types:	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>
```

Complex Type: FuzzyPeriod

Super-types:	None
Sub-types:	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>
```

Complex Type: PeriodExtended

Super-types:	None
Sub-types:	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>
```

top

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>
```

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>
```

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>
```

DATEXII_3_Common

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/common**
Version	3.3
Element and Attribute Namespaces	
	• Global element and attribute declarations belong to this schema's target namespace.
	• By default, local element declarations belong to this schema's target namespace.
	• By default, local attribute declarations have no namespace.
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>
```

Global Definitions

Complex Type: CalendarWeekWithinMonth

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

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: DataValue

Super-types:	None
Sub-types:	• SpeedValue (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>
```

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>
```

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>
```

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>
```

Complex Type: InternationalIdentifier

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: MultilingualString

Super-types:	None
Sub-types:	None

Name	MultilingualString
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

[top]

Complex Type: MultilingualStringValue

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

Name	MultilingualStringValue
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

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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

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

Complex Type: PayloadPublication

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: 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

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

Complex Type: PublicHoliday

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

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: Reference

Super-types:	None
Sub-types:	None

Name	Reference
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: 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>
```

Complex Type: SpecialDay

Super-types:	None
Sub-types:	
	• [PublicHoliday](#) (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: SpeedValue

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

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

XML Instance Representation

```
<...>
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:speed> com:KilometresPerHour </com:speed> [1] ?
   <com:_speedValueExtension> com:_ExtensionType </com:_speedValueExtension> [0..1]
</...>
```

Schema Component Representation

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

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

Schema Component Representation

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

[top](#)

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>
```

Complex Type: **_CalendarWeekWithinMonthEnum**

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

Name   _CalendarWeekWithinMonthEnum

Abstract   no

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

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

Complex Type: **_ConfidentialityValueEnum**

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

Name   _ConfidentialityValueEnum

Abstract   no

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

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

Complex Type: **_DayEnum**

Super-types:	xs:string < DayEnum (by restriction) < **_DayEnum** (by extension)
Sub-types:	None

Name   _DayEnum

Abstract   no

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

```
   com:DayEnum
</...>
```

Schema Component Representation

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

Complex Type: _DayWeekMonthExtensionType

Super-types:	None
Sub-types:	None

Name	_DayWeekMonthExtensionType
Abstract	no

XML Instance Representation

```
<...>
  <com:dayWeekMonthExtended> 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>
```

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>
```

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>
```

Complex Type: _InformationStatusEnum

Super-types:	xs:string < InformationStatusEnum (by restriction) < **_InformationStatusEnum** (by extension)
Sub-types:	None

Name	_InformationStatusEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

Complex Type: _VehicleTypeEnum

Super-types:	xs:string < VehicleTypeEnum (by restriction) < **_VehicleTypeEnum** (by extension)
Sub-types:	None

Name   _VehicleTypeEnum

Abstract   no

XML Instance Representation

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

Schema Component Representation

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

Simple Type: AngleInDegrees

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

Name   AngleInDegrees

Content

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

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

Schema Component Representation

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

Simple Type: Boolean

Super-types:	xs:boolean < **Boolean** (by restriction)
Sub-types:	None

Name   Boolean

Content

- Base XSD Type: boolean

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

Schema Component Representation

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

Simple Type: CalendarWeekWithinMonthEnum

Super-types:	xs:string < **CalendarWeekWithinMonthEnum** (by restriction)
Sub-types:	• _CalendarWeekWithinMonthEnum (by extension)

Name	CalendarWeekWithinMonthEnum
Content	• Base XSD Type: string • *value* comes from list: {'firstWeek'|'secondWeek'|'thirdWeek'|'fourthWeek'|'fifthWeek'|'sixthWeek'|'lastWeek'|'_extended'}
Documentation	Calendar week within month (see ISO8601).

Schema Component Representation

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

Simple Type: ConfidentialityValueEnum

Super-types:	xs:string < **ConfidentialityValueEnum** (by restriction)
Sub-types:	• _ConfidentialityValueEnum (by extension)

Name	ConfidentialityValueEnum
Content	• Base XSD Type: string • *value* comes from list: {'internalUse'|'noRestriction'|'restrictedToAuthorities'|'restrictedToAuthoritiesAndTrafficOperators'|'_extended'}
Documentation	Values of confidentiality.

Schema Component Representation

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

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

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

Simple Type: DateTime

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

Name	DateTime
Content	
	• Base XSD Type: dateTime
Documentation	A combination of integer-valued year, month, day, hour, minute properties, a decimal-valued second property and a time zone property from which it is possible to determine the local time, the equivalent UTC time and the time zone offset from UTC.

Schema Component Representation

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

Simple Type: 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>
```

Simple Type: Float

Super-types:	xs:float < **Float** (by restriction)
Sub-types:	• KilometresPerHour (by restriction) • MetresAsFloat (by restriction) • Percentage (by restriction) • Seconds (by restriction)

Name	Float
Content	
	• Base XSD Type: float
Documentation	A floating point number whose value space consists of the values m × 2^e, where m is an integer whose absolute value is less than 2^24, and e is an integer between -149 and 104, inclusive.

Schema Component Representation

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

Simple Type: 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>
```

Simple Type: InformationStatusEnum

Super-types:	xs:string < **InformationStatusEnum** (by restriction)
Sub-types:	• _InformationStatusEnum (by extension)

Name	InformationStatusEnum
Content	• Base XSD Type: string • *value* comes from list: {'real'|'securityExercise'|'technicalExercise'|'test'|'_extended'}
Documentation	Status of the related information (i.e. real, test or exercise).

Schema Component Representation

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

Simple Type: InstanceOfDayEnum

Super-types:	xs:string < **InstanceOfDayEnum** (by restriction)
Sub-types:	• _InstanceOfDayEnum (by extension)

Name	InstanceOfDayEnum
Content	• Base XSD Type: string • *value* comes from list: {'firstInstance'|'secondInstance'|'thirdInstance'|'fourthInstance'|'fifthInstance'|'lastInstance'|'_extended'}
Documentation	Instances of a day of the week in a month

Schema Component Representation

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

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>
```

Simple Type: KilometresPerHour

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

Name	KilometresPerHour
Content	
	• Base XSD Type: float
Documentation	A measure of speed defined in kilometres per hour.

Schema Component Representation

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

Simple Type: Language

Super-types:	xs:language < **Language** (by restriction)
Sub-types:	None

Name	Language
Content	
	• Base XSD Type: language
Documentation	A language datatype, identifies a specified language by an ISO 639-1 2-alpha code.

Schema Component Representation

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

Simple Type: LongString

Super-types:	xs:string < **LongString** (by restriction)
Sub-types:	None

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

Schema Component Representation

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

Simple Type: MetresAsFloat

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

Name	MetresAsFloat
Content	
	• Base XSD Type: float
Documentation	A measure of distance defined in metres in a floating point format.

Schema Component Representation

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

Simple Type: MetresAsNonNegativeInteger

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

Name	MetresAsNonNegativeInteger
Content	
	• Base XSD Type: nonNegativeInteger
Documentation	A measure of distance defined in metres in a non negative integer format.

Schema Component Representation

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

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

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: MultilingualStringValueType

Super-types:	xs:string < **MultilingualStringValueType** (by restriction)
Sub-types:	• MultilingualStringValue (by extension)

Name	MultilingualStringValueType
Content	• Base XSD Type: string • *length* <= 1024

Schema Component Representation

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

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>
```

Simple Type: PublicEventTypeEnum

Super-types:	xs:string < **PublicEventTypeEnum** (by restriction)
Sub-types:	• _PublicEventTypeEnum (by extension)

Name	PublicEventTypeEnum
Content	• Base XSD Type: string
	• *value* comes from list: {'agriculturalShow'|'airShow'|'artEvent'|'athleticsMeeting'|'commercialEvent'|'culturalEvent'|'ballGame'|'baseballGame'|'basketballGame'|'beerFestival'|
Documentation	Types of public events.

Schema Component Representation

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

Simple Type: Seconds

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

Sub-types:	None

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

Schema Component Representation

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

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>
```

Simple Type: SpecialDayTypeEnum

Super-types:	xs:string < **SpecialDayTypeEnum** (by restriction)
Sub-types:	• _SpecialDayTypeEnum (by extension)

Name	SpecialDayTypeEnum
Content	• Base XSD Type: string • *value* comes from list: {'dayBeforePublicHoliday'|'publicHoliday'|'dayFollowingPublicHoliday'|'longWeekendDay'|'inLieuOfPublicHoliday'|'schoolDay'|'schoolHolidays'|'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>
```

Simple Type: String

Super-types:	xs:string < **String** (by restriction)
Sub-types:	• CountryCode (by restriction)

Name	String
Content	• Base XSD Type: string • *length* <= 1024
Documentation	A character string whose value space is the set of finite-length sequences of characters. Every character has a corresponding Universal Character Set code point (as defined in ISO/IEC 10646), which is an integer.

Schema Component Representation

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

Simple Type: Time

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

Name	Time
Content	• Base XSD Type: time
Documentation	An instant of time that recurs every day. The value space of time is the space of time of day values as defined in § 5.3 of [ISO 8601]. Specifically, it is a set of zero-duration daily time instances.

Schema Component Representation

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

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>
```

Simple Type: VehicleTypeEnum

Super-types:	xs:string < **VehicleTypeEnum** (by restriction)
Sub-types:	• _VehicleTypeEnum (by extension)

Name	VehicleTypeEnum
Content	• Base XSD Type: string • *value* comes from list: {'agriculturalVehicle'|'anyVehicle'|'articulatedBus'|'articulatedTrolleyBus'|'articulatedVehicle'|'bicycle'|'bus'|'car'|'caravan'|'carOrLightVehicle'|'carWithCa
Documentation	Types of vehicle.

Schema Component Representation

```
<xs:simpleType name="VehicleTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="agriculturalVehicle"/>
    <xs:enumeration value="anyVehicle"/>
    <xs:enumeration value="articulatedBus"/>
    <xs:enumeration value="articulatedTrolleyBus"/>
    <xs:enumeration value="articulatedVehicle"/>
    <xs:enumeration value="bicycle"/>
    <xs:enumeration value="bus"/>
    <xs:enumeration value="car"/>
    <xs:enumeration value="caravan"/>
    <xs:enumeration value="carOrLightVehicle"/>
    <xs:enumeration value="carWithCaravan"/>
    <xs:enumeration value="carWithTrailer"/>
    <xs:enumeration value="constructionOrMaintenanceVehicle"/>
    <xs:enumeration value="fourWheelDrive"/>
    <xs:enumeration value="heavyGoodsVehicle"/>
    <xs:enumeration value="heavyGoodsVehicleWithTrailer"/>
    <xs:enumeration value="heavyDutyTransporter"/>
    <xs:enumeration value="heavyVehicle"/>
    <xs:enumeration value="highSidedVehicle"/>
    <xs:enumeration value="lightCommercialVehicle"/>
    <xs:enumeration value="largeCar"/>
    <xs:enumeration value="largeGoodsVehicle"/>
    <xs:enumeration value="lightCommercialVehicleWithTrailer"/>
    <xs:enumeration value="longHeavyLorry"/>
    <xs:enumeration value="lorry"/>
    <xs:enumeration value="metro"/>
    <xs:enumeration value="minibus"/>
    <xs:enumeration value="moped"/>
    <xs:enumeration value="motorcycle"/>
    <xs:enumeration value="motorcycleWithSideCar"/>
    <xs:enumeration value="motorhome"/>
    <xs:enumeration value="motorscooter"/>
    <xs:enumeration value="passengerCar"/>
    <xs:enumeration value="smallCar"/>
    <xs:enumeration value="tanker"/>
    <xs:enumeration value="threeWheeledVehicle"/>
    <xs:enumeration value="trailer"/>
    <xs:enumeration value="tram"/>
    <xs:enumeration value="trolleyBus"/>
    <xs:enumeration value="twoWheeledVehicle"/>
    <xs:enumeration value="van"/>
    <xs:enumeration value="vehicleWithCaravan"/>
    <xs:enumeration value="vehicleWithCatalyticConverter"/>
    <xs:enumeration value="vehicleWithoutCatalyticConverter"/>
    <xs:enumeration value="vehicleWithTrailer"/>
    <xs:enumeration value="withEvenNumberedRegistrationPlates"/>
    <xs:enumeration value="withOddNumberedRegistrationPlates"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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Simple Type: _VehicleTypeEnumExtensionType

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

Name   _VehicleTypeEnumExtensionType

Content

- Base XSD Type: string

- *value* comes from list:
  {'animalDrawnVehicles'|'electricVehicles'|'passengerCarWithTrailer'|'motorizedVehicles'|'goodsVehicles'|'nonMotorizedVehicles'|'handcarts'|'soloMotorcycle'|'n

Schema Component Representation

```
<xs:simpleType name="_VehicleTypeEnumExtensionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="animalDrawnVehicles"/>
    <xs:enumeration value="electricVehicles"/>
    <xs:enumeration value="passengerCarWithTrailer"/>
    <xs:enumeration value="motorizedVehicles"/>
    <xs:enumeration value="goodsVehicles"/>
    <xs:enumeration value="nonMotorizedVehicles"/>
    <xs:enumeration value="handcarts"/>
    <xs:enumeration value="soloMotorcycle"/>
    <xs:enumeration value="motorizedVehiclesWithoutNumberPlate"/>
    <xs:enumeration value="motorQuadricycles"/>
    <xs:enumeration value="motorisedPersonalTransportDevices"/>
  </xs:restriction>
</xs:simpleType>
```

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DATEXII_3_D2Payload

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/d2Payload**
Version	3.3
Element and Attribute Namespaces	- Global element and attribute declarations belong to this schema's target namespace. - By default, local element declarations belong to this schema's target namespace. - By default, local attribute declarations have no namespace.
Schema Composition	- This schema imports schema(s) from the following namespace(s): *http://datex2.eu/schema/3/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

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

Global Declarations

Element: payload

Name	payload
Type	com:PayloadPublication
Nillable	no
Abstract	no

XML Instance Representation

```
<d2:payload> com:PayloadPublication
   <!--
   Uniqueness Constraint - _payloadPredefinedLocationConstraint
   Selector - .//loc:predefinedLocation
   Field(s) - @id, @version
   -->
</d2:payload>
```

Schema Component Representation

```
<xs:element name="payload" type="com:PayloadPublication">
   <xs:unique name="_payloadPredefinedLocationConstraint">
      <xs:selector xpath=".//loc:predefinedLocation"/>
      <xs:field xpath="@id"/>
      <xs:field xpath="@version"/>
   </xs:unique>
</xs:element>
```

DATEXII_3_Facilities

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/facilities**
Version	3.3
Element and Attribute Namespaces	- Global element and attribute declarations belong to this schema's target namespace. - By default, local element declarations belong to this schema's target namespace. - By default, local attribute declarations have no namespace.
Schema Composition	- This schema imports schema(s) from the following namespace(s): *http://datex2.eu/schema/3/locationReferencing* (at DATEXII_3_LocationReferencing.xsd) *http://datex2.eu/schema/3/common* (at DATEXII_3_Common.xsd)

Declared Namespaces

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

Global Definitions

Simple Type: TimeZone

Super-types:	com:String < **TimeZone** (by restriction)
Sub-types:	None

Name	TimeZone
Content	

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

- *pattern* = [-+][0-9][0-9]:[0-9][0-9]|Z

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

Schema Component Representation

```xml
<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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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>
```

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Global Definitions

Complex Type: Address

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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>
```

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>
```

Complex Type: NamedAreaExtended

Super-types:	None
Sub-types:	None

Name	NamedAreaExtended
Abstract	no

Documentation	A named area with an additional code (that is not an ISO subdivision code)

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

DATEXII_3_LocationReferencing

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/locationReferencing**
Version	3.3
Element and Attribute Namespaces	- Global element and attribute declarations belong to this schema's target namespace. - By default, local element declarations belong to this schema's target namespace. - By default, local attribute declarations have no namespace.
Schema Composition	- This schema imports schema(s) from the following namespace(s): *http://datex2.eu/schema/3/common* (at DATEXII_3_Common.xsd) *http://datex2.eu/schema/3/locationExtension* (at DATEXII_3_LocationExtension.xsd)

Declared Namespaces

Prefix	Namespace
xml	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>
```

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>
```

Complex Type: AlertCDirection

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: AlertCLinear

Super-types:	None
Sub-types:	

...

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

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: AlertCLinearByCode

Super-types:	[AlertCLinear](#) < **AlertCLinearByCode** (by extension)
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: AlertCLocation

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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

Complex Type: **AlertCMethod2Linear**

Super-types:	AlertCLinear < **AlertCMethod2Linear** (by extension)
Sub-types:	None

Name	AlertCMethod2Linear
Abstract	no
Documentation	A linear section along a road between two points, primary and secondary, which are pre-defined in an ALERT-C location table. Direction is FROM the secondary point TO the primary point, i.e. the primary point is downstream of the secondary point.

XML Instance Representation

```
<...>
    <loc:alertCLocationCountryCode> com:String </loc:alertCLocationCountryCode> [1] ?
    <loc:alertCLocationTableNumber> com:String </loc:alertCLocationTableNumber> [1] ?
    <loc:alertCLocationTableVersion> com:String </loc:alertCLocationTableVersion> [1] ?
    <loc:_alertCLinearExtension> com:_ExtensionType </loc:_alertCLinearExtension> [0..1]
    <loc:alertCDirection> loc:AlertCDirection </loc:alertCDirection> [1]
    <loc:alertCMethod2PrimaryPointLocation> loc:AlertCMethod2PrimaryPointLocation
    </loc:alertCMethod2PrimaryPointLocation> [1]
    <loc:alertCMethod2SecondaryPointLocation> loc:AlertCMethod2SecondaryPointLocation
    </loc:alertCMethod2SecondaryPointLocation> [1]
    <loc:_alertCMethod2LinearExtension> com:_ExtensionType </loc:_alertCMethod2LinearExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod2Linear">
    <xs:complexContent>
        <xs:extension base="loc:AlertCLinear">
            <xs:sequence>
                <xs:element name="alertCDirection" type="loc:AlertCDirection"/>
                <xs:element name="alertCMethod2PrimaryPointLocation" type="loc:AlertCMethod2PrimaryPointLocation"/>
                <xs:element name="alertCMethod2SecondaryPointLocation" type="loc:AlertCMethod2SecondaryPointLocation"/>
                <xs:element name="_alertCMethod2LinearExtension" type="com:_ExtensionType" minOccurs="0"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
```

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>
```

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>
```

Complex Type: **AlertCMethod2SecondaryPointLocation**

Super-types:	None
Sub-types:	None

Name	AlertCMethod2SecondaryPointLocation
Abstract	no
Documentation	The point (called Secondary point) which is at the upstream end of a linear road section. The point is specified by a reference to a point in a pre-defined ALERT-C location table.

XML Instance Representation

```
<...>
   <loc:alertCLocation> loc:AlertCLocation </loc:alertCLocation> [1]
   <loc:_alertCMethod2SecondaryPointLocationExtension> com:_ExtensionType
   </loc:_alertCMethod2SecondaryPointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod2SecondaryPointLocation">
   <xs:sequence>
      <xs:element name="alertCLocation" type="loc:AlertCLocation"/>
      <xs:element name="_alertCMethod2SecondaryPointLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

Complex Type: **AlertCMethod4Linear**

Super-types:	AlertCLinear < **AlertCMethod4Linear** (by extension)
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: AlertCMethod4Point

Super-types:	[AlertCPoint](#) < **AlertCMethod4Point** (by extension)
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: AlertCMethod4PrimaryPointLocation

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: AlertCMethod4SecondaryPointLocation

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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>
```

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>
```

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>
```

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>
```

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>
```

Complex Type: Destination

Super-types:	None
Sub-types:	• AreaDestination (by extension) • PointDestination (by extension)

Name	Destination
Abstract	yes
Documentation	The specification of a destination. This may be either a point location or an area location.

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>
```

Complex Type: DistanceAlongLinearElement

Super-types:	None
Sub-types:	• DistanceFromLinearElementReferent (by extension) • DistanceFromLinearElementStart (by extension) • PercentageDistanceAlongLinearElement (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: DistanceFromLinearElementReferent

Super-types:	DistanceAlongLinearElement < **DistanceFromLinearElementReferent** (by extension)
Sub-types:	None

Name	DistanceFromLinearElementReferent
Abstract	no
Documentation	Distance of a point along a linear element measured from a "from referent" on the linear element, in the sense relative to the linear element definition rather than the direction of traffic flow or optionally towards a "towards referent".

XML Instance Representation

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

Schema Component Representation

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

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

Complex Type: DistanceFromLinearElementStart

Super-types:	DistanceAlongLinearElement < **DistanceFromLinearElementStart** (by extension)
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: 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>
```

Complex Type: GmlLineString

Super-types:	None
Sub-types:	• 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>
```

Complex Type: **GmlLinearRing**

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

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: **GmlMultiPolygon**

Super-types:	None
Sub-types:	None

Name	GmlMultiPolygon
Abstract	no
Documentation	An area defined by a set of polygons acording 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>
```

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>
```

Complex Type: HeightCoordinate

Super-types:	None
Sub-types:	None

Name	HeightCoordinate
Abstract	no
Documentation	Third coordinate for points defined geodetically

XML Instance Representation

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

Schema Component Representation

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

Complex Type: 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>
```

Complex Type: Itinerary

Super-types:	LocationReference < **Itinerary** (by extension)
Sub-types:	• 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>
```

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>
```

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>
```

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

Complex Type: **Lane**

Super-types:	None
Sub-types:	None

Name	Lane
Abstract	no
Documentation	Indicates a specific lane or group of lanes.

XML Instance Representation

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

Schema Component Representation

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

Complex Type: **LinearElement**

Super-types:	None
Sub-types:	• LinearElementByCode (by extension) • LinearElementByLineString (by extension) • LinearElementByPoints (by extension)

Name	LinearElement
Abstract	no
Documentation	A linear element along a single linear object, consistent with EN ISO 19148 definitions.

XML Instance Representation

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

Schema Component Representation

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

Complex Type: **LinearElementByCode**

Super-types:	LinearElement < **LinearElementByCode** (by extension)
Sub-types:	None

Name	LinearElementByCode
Abstract	no
Documentation	A linear element along a single linear object defined by its identifier or code in a road network reference model (specified in LinearElement class) which segments the road network according to specific business rules.

XML Instance Representation

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

```
    <loc:linearElementIdentifier> com:String </loc:linearElementIdentifier> [1]  ?
    <loc:_linearElementByCodeExtension> com:_ExtensionType </loc:_linearElementByCodeExtension> [0..1]
</...>
```

Schema Component Representation

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

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>
```

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>
```

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:secondarySupplementaryDescription> loc:SupplementaryPositionalDescription
   </loc:secondarySupplementaryDescription> [0..1] ?
   <loc:_linearLocationExtension> com:_ExtensionType </loc:_linearLocationExtension> [0..1]
</...>
```

Schema Component Representation

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

Complex Type: **LinearWithinLinearElement**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: **Location**

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

Sub-types:	• [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>
```

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>
```

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>
```

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>
```

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>
```

Complex Type: LocationReference

Super-types:	None

Sub-types:	• Itinerary (by extension)
	     ○ ItineraryByIndexedLocations (by extension)
	     ○ ItineraryByReference (by extension)
	 • Location (by extension)
	     ○ AreaLocation (by extension)

- - LocationByReference (by extension)
    - NetworkLocation (by extension)
      - LinearLocation (by extension)
        - SingleRoadLinearLocation (by extension)
      - PointLocation (by extension)
  - LocationGroup (by extension)
    - 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>
```

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Complex Type: NamedArea

Super-types:	NamedArea < **NamedArea** (by extension)
Sub-types:	- IsoNamedArea (by extension) - NamedArea (by extension) - NutsNamedArea (by extension)

Name	NamedArea
Abstract	no
Documentation	An area defined by a name and/or in terms of known boundaries, such as country or county boundaries or allocated control area of particular authority. The attributes do not form a union; instead, the smallest intersection forms the resulting area.

XML Instance Representation

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

Schema Component Representation

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

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:	

- 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>
```

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Complex Type: OpenlrBasePointLocation

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

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

XML Instance Representation

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

Schema Component Representation

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

[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>
```

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>
```

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>
```

Complex Type: **OpenlrGeoCoordinate**

Super-types:	OpenlrPointLocationReference < **OpenlrGeoCoordinate** (by extension)
Sub-types:	None

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

XML Instance Representation

```
<...>
```

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

Schema Component Representation

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

Complex Type: 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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

Complex Type: **OpenlrPointLocationReference**

Super-types:	None
Sub-types:	

- OpenlrBasePointLocation (by extension)
  - OpenlrPointAlongLine (by extension)
  - OpenlrPoiWithAccessPoint (by extension)
- OpenlrGeoCoordinate (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: 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>
```

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>
```

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>
```

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>
```

Complex Type: PercentageDistanceAlongLinearElement

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

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: PointAlongLinearElement

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```
<...>
    <loc:administrativeAreaOfPoint> com:MultilingualString </loc:administrativeAreaOfPoint> [0..1] ?
    <loc:directionAtPoint> loc:_DirectionEnum </loc:directionAtPoint> [0..1] ?
    <loc:directionRelativeAtPoint> loc:_LinearDirectionEnum </loc:directionRelativeAtPoint> [0..1] ?
    <loc:heightGradeOfPoint> loc:_HeightGradeEnum </loc:heightGradeOfPoint> [0..1] ?
    <loc:linearElement> loc:LinearElement </loc:linearElement> [1]
    <loc:distanceAlongLinearElement> loc:DistanceAlongLinearElement </loc:distanceAlongLinearElement> [1]
    <loc:_pointAlongLinearElementExtension> com:_ExtensionType </loc:_pointAlongLinearElementExtension> [0..1]
</...>
```

Schema Component Representation

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

Complex Type: **PointByCoordinates**

Super-types:	None
Sub-types:	None

Name	PointByCoordinates
Abstract	no
Documentation	A single point defined only by a coordinate set with an optional bearing direction.

XML Instance Representation

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

Schema Component Representation

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

Complex Type: **PointCoordinates**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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

Complex Type: **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>
```

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>
```

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>
```

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>
```

Complex Type: PredefinedLocation

Super-types:	PredefinedLocationReference < **PredefinedLocation** (by extension)
Sub-types:	None

Name	PredefinedLocation
Abstract	no
Documentation	An identifiable versioned instance of a single predefined location.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <loc:_predefinedLocationReferenceExtension> com:_ExtensionType </loc:_predefinedLocationReferenceExtension> [0..1]
  <loc:predefinedLocationName> com:MultilingualString </loc:predefinedLocationName> [0..1]  ?
  <loc:location> loc:Location </loc:location> [1]
  <loc:_predefinedLocationExtension> com:_ExtensionType </loc:_predefinedLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PredefinedLocation">
  <xs:complexContent>
    <xs:extension base="loc:PredefinedLocationReference">
      <xs:sequence>
        <xs:element name="predefinedLocationName" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
        <xs:element name="location" type="loc:Location"/>
```

```
          <xs:element name="_predefinedLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
        </xs:sequence>
        <xs:attribute name="id" type="xs:string" use="required"/>
        <xs:attribute name="version" type="xs:string" use="required"/>
      </xs:extension>
    </xs:complexContent>
</xs:complexType>
```

Complex Type: PredefinedLocationReference

Super-types:	None
Sub-types:	• PredefinedLocation (by extension)

Name	PredefinedLocationReference
Abstract	yes
Documentation	A location reference which is predefined and may be realised by a predefined itinerary, non-ordered group of locations or single location.

XML Instance Representation

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

Schema Component Representation

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

Complex Type: PredefinedLocationsPublication

Super-types:	com:PayloadPublication < **PredefinedLocationsPublication** (by extension)
Sub-types:	None

Name	PredefinedLocationsPublication
Abstract	no
Documentation	A publication containing one or more groups of predefined locations organised either as itineraries, non-ordered groups or as individual locations.

XML Instance Representation

```
<...>
   <!-- 'com:PayloadPublication' super type was not found in this schema. Some elements and attributes may be
   missing. -->
   <loc:headerInformation> com:HeaderInformation </loc:headerInformation> [1]
   <loc:predefinedLocationReference> loc:PredefinedLocationReference </loc:predefinedLocationReference> [1..*]
   <loc:_predefinedLocationsPublicationExtension> com:_ExtensionType </loc:_predefinedLocationsPublicationExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PredefinedLocationsPublication">
   <xs:complexContent>
      <xs:extension base="com:PayloadPublication">
         <xs:sequence>
            <xs:element name="headerInformation" type="com:HeaderInformation"/>
            <xs:element name="predefinedLocationReference" type="loc:PredefinedLocationReference"
            maxOccurs="unbounded"/>
            <xs:element name="_predefinedLocationsPublicationExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

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>
```

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>
```

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:secondarySupplementaryDescription> loc:SupplementaryPositionalDescription
   </loc:secondarySupplementaryDescription> [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"/>
```

```xml
        <xs:element name="_singleRoadLinearLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

```xml
<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>
```

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

```xml
<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>
```

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>
```

[top](#)

Complex Type: TpegDescriptor

Super-types:	None

Sub-types:	• [TpegAreaDescriptor](#) (by extension)
	• [TpegPointDescriptor](#) (by extension)
	    ○ [TpegIlcPointDescriptor](#) (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>
```

[top](#)

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>
```

top

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>
```

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>
```

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>
```

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: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>
```

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>
```

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

```xml
<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>
```

Complex Type: TpegOtherPointDescriptor

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

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

XML Instance Representation

```
<...>
  <loc:descriptor> com:MultilingualString </loc:descriptor> [1] ?
  <loc:_tpegDescriptorExtension> com:_ExtensionType </loc:_tpegDescriptorExtension> [0..1]
  <loc:_tpegPointDescriptorExtension> com:_ExtensionType </loc:_tpegPointDescriptorExtension> [0..1]
  <loc:tpegOtherPointDescriptorType> loc:_TpegLoc03OtherPointDescriptorSubtypeEnum
  </loc:tpegOtherPointDescriptorType> [1] ?
  <loc:_tpegOtherPointDescriptorExtension> com:_ExtensionType </loc:_tpegOtherPointDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

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

Complex Type: TpegPoint

Super-types:	None
Sub-types:	• TpegJunction (by extension) • TpegNonJunctionPoint (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: TpegPointDescriptor

Super-types:	TpegDescriptor < **TpegPointDescriptor** (by extension)
Sub-types:	• TpegIlcPointDescriptor (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:	• 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>
```

Complex Type: _AltitudeAccuracyEnum

Super-types:	xs:string < AltitudeAccuracyEnum (by restriction) < **_AltitudeAccuracyEnum** (by extension)
Sub-types:	None

Name	_AltitudeAccuracyEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _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>
```

Complex Type: _CarriagewayEnum

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

Name	_CarriagewayEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _DirectionEnum

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

Name   _DirectionEnum

Abstract   no

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

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

Complex Type: _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>
```

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>
```

Complex Type: _HeightGradeEnum

Name   _HeightGradeEnum

Abstract   no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _HeightTypeEnum

Super-types:	xs:string < HeightTypeEnum (by restriction) < **_HeightTypeEnum** (by extension)
Sub-types:	None

Name   _HeightTypeEnum

Abstract   no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _InfrastructureDescriptorEnum

Super-types:	xs:string < InfrastructureDescriptorEnum (by restriction) < **_InfrastructureDescriptorEnum** (by extension)
Sub-types:	None

Name   _InfrastructureDescriptorEnum

Abstract   no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _IntermediatePointOnLinearElement

Super-types:	None
Sub-types:	None

Name   _IntermediatePointOnLinearElement

Abstract   no

XML Instance Representation

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

Schema Component Representation

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

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>
```

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>
```

Complex Type: _LinearElementNatureEnum

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

Name   _LinearElementNatureEnum

Abstract   no

XML Instance Representation

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

Schema Component Representation

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

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

Complex Type: _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>
```

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>
```

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>
```

Complex Type: _NamedAreaTypeEnum

Super-types:	xs:string < NamedAreaTypeEnum (by restriction) < **_NamedAreaTypeEnum** (by extension)
Sub-types:	None

Name   _NamedAreaTypeEnum

Abstract	no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _NutsCodeTypeEnum

Super-types:	xs:string < NutsCodeTypeEnum (by restriction) < **_NutsCodeTypeEnum** (by extension)
Sub-types:	None

Name	_NutsCodeTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _OpenlrFormOfWayEnum

Super-types:	xs:string < OpenlrFormOfWayEnum (by restriction) < **_OpenlrFormOfWayEnum** (by extension)
Sub-types:	None

Name	_OpenlrFormOfWayEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _OpenlrFunctionalRoadClassEnum

Super-types:	xs:string < OpenlrFunctionalRoadClassEnum (by restriction) < **_OpenlrFunctionalRoadClassEnum** (by extension)
Sub-types:	None

Name	_OpenlrFunctionalRoadClassEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

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

Complex Type: _OpenlrOrientationEnum

Super-types:	xs:string < OpenlrOrientationEnum (by restriction) < **_OpenlrOrientationEnum** (by extension)
Sub-types:	None

Name   _OpenlrOrientationEnum
Abstract   no

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

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

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

Complex Type: _SupplementaryPositionalDescriptionExtensionType

Super-types:	None
Sub-types:	None

Name   _SupplementaryPositionalDescriptionExtensionType

Abstract   no

XML Instance Representation

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

Schema Component Representation

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

```
        <xs:element name="supplementaryPositionalDescriptionExtended"
        type="locx: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>
```

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>
```

Complex Type: _TpegLoc03AreaDescriptorSubtypeEnum

Super-types:	xs:string < TpegLoc03AreaDescriptorSubtypeEnum (by restriction) < _TpegLoc03AreaDescriptorSubtypeEnum (by 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>
```

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>
```

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>
```

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>
```

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>
```

Simple Type: AlertCDirectionEnum

Super-types:	xs:string < **AlertCDirectionEnum** (by restriction)
Sub-types:	• _AlertCDirectionEnum (by extension)

Name	AlertCDirectionEnum
Content	• Base XSD Type: string • *value* comes from list: {'negative'|'positive'|'_extended'}
Documentation	Direction used to reach the primary location from the secondary location in ALERT-C location table, as defined in CEN ISO 14819-1

Schema Component Representation

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

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

Simple Type: AlertCLocationCode

Super-types:	com:NonNegativeInteger < **AlertCLocationCode** (by restriction)
Sub-types:	None

Name	AlertCLocationCode
Content	

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

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

Schema Component Representation

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

Simple Type: AltitudeAccuracyEnum

Super-types:	xs:string < **AltitudeAccuracyEnum** (by restriction)
Sub-types:	• _AltitudeAccuracyEnum (by extension)

Name	AltitudeAccuracyEnum
Content	

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

Documentation	Coded level of vertical accuracy

Schema Component Representation

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

Simple Type: 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>
```

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>
```

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>
```

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>
```

Simple Type: GmlPosList

Super-types:	com:LongString < **GmlPosList** (by restriction)
Sub-types:	None

Name   GmlPosList

Content

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

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

Schema Component Representation

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

Simple Type: HeightGradeEnum

Super-types:	xs:string < **HeightGradeEnum** (by restriction)
Sub-types:	

- [HeightGradeEnum](#) (by extension)

Name	HeightGradeEnum
Content	
	- Base XSD Type: string
	- *value* comes from list: {'aboveGrade'|'atGrade'|'belowGrade'|'_extended'}
Documentation	List of height or vertical gradings of road sections.

Schema Component Representation

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

Simple Type: HeightTypeEnum

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

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

Schema Component Representation

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

Simple Type: InfrastructureDescriptorEnum

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

Name	InfrastructureDescriptorEnum
Content	
	- Base XSD Type: string
	- *value* comes from list: {'atMotorwayInterchange'|'atRestArea'|'atServiceArea'|'atTollPlaza'|'atTunnelEntryOrExit'|'inGallery'|'inTunnel'|'onBridge'|'onConnector'|'onElevatedSe
Documentation	Descriptor identifying infrastructure to help to identify a specific location.

Schema Component Representation

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

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: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>
```

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>
```

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>
```

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: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>
```

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>
```

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>
```

Simple Type: OpenlrFormOfWayEnum

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

Name	OpenlrFormOfWayEnum
Content	
	• Base XSD Type: string
	• *value* comes from list: {'undefined'|'motorway'|'multipleCarriageway'|'singleCarriageway'|'roundabout'|'slipRoad'|'trafficSquare'|'other'|'_extended'}
Documentation	Enumeration of for of way

Schema Component Representation

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

Simple Type: OpenlrFunctionalRoadClassEnum

Super-types:	xs:string < **OpenlrFunctionalRoadClassEnum** (by restriction)
Sub-types:	• _OpenlrFunctionalRoadClassEnum (by extension)

Name	OpenlrFunctionalRoadClassEnum
Content	
	• Base XSD Type: string
	• *value* comes from list: {'frc0'|'frc1'|'frc2'|'frc3'|'frc4'|'frc5'|'frc6'|'frc7'|'_extended'}
Documentation	Enumeration of functional road class

Schema Component Representation

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

Simple Type: OpenlrOrientationEnum

Super-types:	xs:string < **OpenlrOrientationEnum** (by restriction)
Sub-types:	• _OpenlrOrientationEnum (by extension)

Name	OpenlrOrientationEnum
Content	
	• Base XSD Type: string
	• *value* comes from list: {'noOrientationOrUnknown'|'withLineDirection'|'againstLineDirection'|'both'|'_extended'}

Documentation	Enumeration of orientation

Schema Component Representation

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

Simple Type: OpenlrSideOfRoadEnum

Super-types:	xs:string < **OpenlrSideOfRoadEnum** (by restriction)
Sub-types:	• _OpenlrSideOfRoadEnum (by extension)

Name	OpenlrSideOfRoadEnum
Content	
	• Base XSD Type: string
	• *value* comes from list: {'onRoadOrUnknown'|'right'|'left'|'both'|'_extended'}
Documentation	Enumeration of side of road

Schema Component Representation

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

Simple Type: PositionConfidenceCodedErrorEnum

Super-types:	xs:string < **PositionConfidenceCodedErrorEnum** (by restriction)
Sub-types:	• _PositionConfidenceCodedErrorEnum (by extension)

Name	PositionConfidenceCodedErrorEnum
Content	
	• Base XSD Type: string
	• *value* comes from list: {'outOfRange'|'unavailable'|'_extended'}
Documentation	Error code for horizontal or vertical position confidence

Schema Component Representation

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

Simple Type: ReferentTypeEnum

Super-types:	xs:string < **ReferentTypeEnum** (by restriction)
Sub-types:	• _ReferentTypeEnum (by extension)

Name	ReferentTypeEnum
Content	
	• Base XSD Type: string
	• *value* comes from list: {'boundary'|'intersection'|'referenceMarker'|'landmark'|'roadNode'|'_extended'}
Documentation	A set of types of known points along a linear object such as a road.

Schema Component Representation

```
<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"/>
```

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>
```

Simple Type: SubdivisionCode

Super-types:	com:String < **SubdivisionCode** (by restriction)
Sub-types:	None

Name	SubdivisionCode
Content	• 'String' super type was not found in this schema. Its facets could not be printed out. • *length* <= 3
Documentation	The second part of an ISO 3166-2 country sub-division code (up to 3 characters) which may be used along with a CountryCode to make a full ISO 3166-2 subdivision code.

Schema Component Representation

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

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 subdivison 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>
```

top

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>
```

top

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>
```

top

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>
```

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>
```

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.

```
<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>
```

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

```xml
<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>
```

<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"/>

DATEXII_3_Parking

Table of Contents

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

```xml
<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>
```

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>
```

DATEXII_3_RoadTrafficData

Table of Contents

Schema Document Properties

Target Namespace	**http://datex2.eu/schema/3/roadTrafficData**
Version	3.3
Element and Attribute Namespaces	- Global element and attribute declarations belong to this schema's target namespace. - By default, local element declarations belong to this schema's target namespace. - By default, local attribute declarations have no namespace.
Schema Composition	- This schema imports schema(s) from the following namespace(s): *http://datex2.eu/schema/3/locationReferencing* (at DATEXII_3_LocationReferencing.xsd) *http://datex2.eu/schema/3/common* (at DATEXII_3_Common.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
loc	http://datex2.eu/schema/3/locationReferencing
com	http://datex2.eu/schema/3/common
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:	• [TravelTimeData](#) (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: DurationValue

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

Name	DurationValue
Abstract	no
Documentation	A measured or calculated value of a period of time.

XML Instance Representation

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

Schema Component Representation

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

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

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:timeDefault> com:DateTime </roa:timeDefault> [0..1]  ?
   <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="timeDefault" type="com:DateTime" minOccurs="0"
        maxOccurs="1"/>
        <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>
```

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:informationManagerOverride> com:InternationalIdentifier
   </roa:informationManagerOverride> [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="informationManagerOverride"
            type="com:InternationalIdentifier" minOccurs="0"/>
            <xs:element name="_physicalQuantityExtension" type="com:_ExtensionType"
            minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
```

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:informationManagerOverride> com:InternationalIdentifier
    </roa:informationManagerOverride> [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>
```

Complex Type: TravelTimeData

Super-types:	BasicData < **TravelTimeData** (by extension)
Sub-types:	None

Name	TravelTimeData
Abstract	no
Documentation	Derived/computed travel time information relating to a linear section of the road network; forecast = true means a forecast for a vehicle at the

start of the specified location, forecast = false means calculation/measurement at the end.

XML Instance Representation

```
<...>
  <roa:measurementOrCalculationTime> roa:MeasurementOrCalculationTime
  </roa:measurementOrCalculationTime> [0..1] ?
  <roa:_basicDataExtension> com:_ExtensionType </roa:_basicDataExtension>
  [0..1]
  <roa:travelTimeTrendType> roa:_TravelTimeTrendTypeEnum
  </roa:travelTimeTrendType> [0..1] ?
  <roa:travelTimeType> roa:_TravelTimeTypeEnum </roa:travelTimeType> [0..1]
  ?
  <roa:vehicleType> com:_VehicleTypeEnum </roa:vehicleType> [0..*] ?
  <roa:travelTime> roa:DurationValue </roa:travelTime> [0..1] ?
  <roa:freeFlowTravelTime> roa:DurationValue </roa:freeFlowTravelTime>
  [0..1] ?
  <roa:normallyExpectedTravelTime> roa:DurationValue
  </roa:normallyExpectedTravelTime> [0..1] ?
  <roa:travelTimeDelay> roa:DurationValue </roa:travelTimeDelay> [0..1] ?
  <roa:freeFlowSpeed> com:SpeedValue </roa:freeFlowSpeed> [0..1] ?
  <roa:_travelTimeDataExtension> com:_ExtensionType
  </roa:_travelTimeDataExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TravelTimeData">
  <xs:complexContent>
    <xs:extension base="roa:BasicData">
      <xs:sequence>
        <xs:element name="travelTimeTrendType"
        type="roa:_TravelTimeTrendTypeEnum" minOccurs="0" maxOccurs="1"/>
        <xs:element name="travelTimeType" type="roa:_TravelTimeTypeEnum"
        minOccurs="0" maxOccurs="1"/>
        <xs:element name="vehicleType" type="com:_VehicleTypeEnum"
        minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="travelTime" type="roa:DurationValue"
        minOccurs="0"/>
        <xs:element name="freeFlowTravelTime" type="roa:DurationValue"
        minOccurs="0"/>
        <xs:element name="normallyExpectedTravelTime"
        type="roa:DurationValue" minOccurs="0"/>
        <xs:element name="travelTimeDelay" type="roa:DurationValue"
        minOccurs="0"/>
        <xs:element name="freeFlowSpeed" type="com:SpeedValue"
        minOccurs="0"/>
        <xs:element name="_travelTimeDataExtension"
        type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Complex Type: _TimeMeaningEnum

Super-types:	xs:string < TimeMeaningEnum (by restriction) < **_TimeMeaningEnum** (by extension)
Sub-types:	None

Name	_TimeMeaningEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _TravelTimeTrendTypeEnum

Super-types:	xs:string < TravelTimeTrendTypeEnum (by restriction) < **_TravelTimeTrendTypeEnum** (by extension)
Sub-types:	None

Name	_TravelTimeTrendTypeEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _TravelTimeTypeEnum

Super-types:	xs:string < TravelTimeTypeEnum (by restriction) < **_TravelTimeTypeEnum** (by extension)
Sub-types:	None

Name	_TravelTimeTypeEnum
Abstract	no

XML Instance Representation

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

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

Simple Type: TimeMeaningEnum

Super-types:	xs:string < **TimeMeaningEnum** (by restriction)
Sub-types:	• _TimeMeaningEnum (by extension)

Name	TimeMeaningEnum
Content	• Base XSD Type: string • *value* comes from list: {'beginTime'|'endTime'|'middleTime'|'_extended'}
Documentation	Explains the meaning of a specific time value with respect to a time period

Schema Component Representation

```
<xs:simpleType name="TimeMeaningEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="beginTime"/>
    <xs:enumeration value="endTime"/>
    <xs:enumeration value="middleTime"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type: TravelTimeTrendTypeEnum

Super-types:	xs:string < **TravelTimeTrendTypeEnum** (by restriction)
Sub-types:	• _TravelTimeTrendTypeEnum (by extension)

Name	TravelTimeTrendTypeEnum
Content	• Base XSD Type: string • *value* comes from list: {'decreasing'|'increasing'|'stable'|'_extended'}
Documentation	List of terms used to describe the trend in travel times.

Schema Component Representation

```
<xs:simpleType name="TravelTimeTrendTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="decreasing"/>
    <xs:enumeration value="increasing"/>
    <xs:enumeration value="stable"/>
    <xs:enumeration value="_extended"/>
```

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

Simple Type: TravelTimeTypeEnum

Super-types:	xs:string < **TravelTimeTypeEnum** (by restriction)
Sub-types:	• _TravelTimeTypeEnum (by extension)

Name   TravelTimeTypeEnum

Content

- Base XSD Type: string

- *value* comes from list:
  {'best'|'estimated'|'instantaneous'|'reconstituted'|'predictor'|'profile'|'sum'|'_extended'}

Documentation   List of ways in which travel times are derived.

Schema Component Representation

```
<xs:simpleType name="TravelTimeTypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="best"/>
      <xs:enumeration value="estimated"/>
      <xs:enumeration value="instantaneous"/>
      <xs:enumeration value="reconstituted"/>
      <xs:enumeration value="predictor"/>
      <xs:enumeration value="profile"/>
      <xs:enumeration value="sum"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```