

Realis ITS

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DatexII 3.3 profile realisvms-3.0

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	<ul style="list-style-type: none">• Global element and attribute declarations belong to this schema's target namespace.• By default, local element declarations belong to this schema's target namespace.• By default, local attribute declarations have no namespace.

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

Schema Component Representation

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

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Global Definitions

Complex Type: **Fault**

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

Name	Fault
Abstract	no
Documentation	Information about a fault relating to a specific piece of equipment or process.

XML Instance Representation

```
<...>
  <com:faultLastUpdateTime> com:DateTime </com:faultLastUpdateTime> [1] ?
  <com:_faultExtension> com:_ExtensionType </com:_faultExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Fault">
  <xs:sequence>
    <xs:element name="faultLastUpdateTime" type="com:DateTime" minOccurs="1"
      maxOccurs="1"/>
    <xs:element name="_faultExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: **HeaderInformation**

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

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **InternationalIdentifier**

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

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

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

Name	MultilingualStringValue
Abstract	no

XML Instance Representation

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

Schema Component Representation

```

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

```

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Complex Type: NamedArea

Super-types: None

Sub-types: None

Name NamedArea

Abstract yes

Documentation An abstract hook class to hook in a model for a named area.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: PayloadPublication

Super-types: None

Sub-types: None

Name PayloadPublication

Abstract yes

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

```
<xs:attribute name="profileName" type="xs:string" use="optional"/>
<xs:attribute name="profileVersion" type="xs:string" use="optional"/>
</xs:complexType>
```

[top](#)

Complex Type: **Reference**

Super-types: None
Sub-types: None

Name Reference
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **UrlLink**

Super-types: None
Sub-types: None

Name UrlLink
Abstract no

Documentation Details of a Uniform Resource Locator (URL) address pointing to a resource available on the Internet from where further relevant information may be obtained.

XML Instance Representation

```
<...>
  <com:urlLinkAddress> com:Url </com:urlLinkAddress> [1] ?
  <com:urlLinkDescription> com:MultilingualString </com:urlLinkDescription> [0..1] ?
  <com:urlLinkType> com:_UrlLinkTypeEnum </com:urlLinkType> [0..1] ?
  <com:_urlLinkExtension> com:_ExtensionType </com:_urlLinkExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="UrlLink">
  <xs:sequence>
    <xs:element name="urlLinkAddress" type="com:Url" minOccurs="1" maxOccurs="1"/>
    <xs:element name="urlLinkDescription" type="com:MultilingualString" minOccurs="0"
      maxOccurs="1"/>
    <xs:element name="urlLinkType" type="com:_UrlLinkTypeEnum" minOccurs="0"
      maxOccurs="1"/>
    <xs:element name="_urlLinkExtension" 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>
```

[top](#)

Complex Type: **_ConfidentialityValueEnum**

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

Sub-types: None

Name **_ConfidentialityValueEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_ExtensionType**

Super-types: None

Sub-types: None

Name **_ExtensionType**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_InformationDeliveryServicesEnum**

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

Sub-types: None

Name **_InformationDeliveryServicesEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_InformationStatusEnum**

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

Sub-types: None

Name **_InformationStatusEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_UrlLinkTypeEnum**

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

Sub-types: None

Name **_UrlLinkTypeEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Simple Type: **AngleInDegrees**

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

Name AngleInDegrees

Content

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

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

Schema Component Representation

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

[top](#)

Simple Type: **Base64Binary**

Super-types: [xs:base64Binary](#) < **Base64Binary** (by restriction)
Sub-types: None

Name Base64Binary

Content

- Base XSD Type: base64Binary

Documentation Binary data in base 64 encoding, for example for image data.

Schema Component Representation

```
<xs:simpleType name="Base64Binary">
  <xs:restriction base="xs:base64Binary"/>
</xs:simpleType>
```

[top](#)

Simple Type: **Boolean**

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

Name Boolean

Content

- Base XSD Type: boolean

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

Schema Component Representation

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

[top](#)

Simple Type: **ConfidentialityValueEnum**

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

- [_ConfidentialityValueEnum](#) (by extension)

Name ConfidentialityValueEnum

Content

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

Documentation Values of confidentiality.

Schema Component Representation

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

[top](#)

Simple Type: **CountryCode**

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

Name	CountryCode
Content	<ul style="list-style-type: none"> • Base XSD Type: string • <i>length</i> <= 1024 • <i>length</i> <= 2
Documentation	EN ISO 3166-1 alpha-2 two-letter country code

Schema Component Representation

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

[top](#)

Simple Type: **DateTime**

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

Name	DateTime
Content	<ul style="list-style-type: none"> • Base XSD Type: dateTime
Documentation	A combination of integer-valued year, month, day, hour, minute properties, a decimal-valued second property and a time zone property from which it is possible to determine the local time, the equivalent UTC time and the time zone offset from UTC.

Schema Component Representation

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

[top](#)

Simple Type: **Decimal**

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

Name	Decimal
-------------	---------

Content

- Base XSD Type: decimal

Documentation

A decimal number whose value space is the set of numbers that can be obtained by multiplying an integer by a non-positive power of ten, i.e., expressible as $i \times 10^{-n}$ where i and n are integers and $n \geq 0$.

Schema Component Representation

```
<xs:simpleType name="Decimal">
  <xs:restriction base="xs:decimal"/>
</xs:simpleType>
```

[top](#)**Simple Type: Float**

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

Sub-types:

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

Name

Float

Content

- Base XSD Type: float

Documentation

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

Schema Component Representation

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

[top](#)**Simple Type: InformationDeliveryServicesEnum**

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

Sub-types:

- [_InformationDeliveryServicesEnum](#) (by extension)

Name

InformationDeliveryServicesEnum

Content

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

Documentation

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

Schema Component Representation

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

[top](#)**Simple Type: InformationStatusEnum**

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

Sub-types:

- [_InformationStatusEnum](#) (by extension)

Name

InformationStatusEnum

Content	<ul style="list-style-type: none"> • Base XSD Type: string • <i>value</i> comes from list: {'real' 'securityExercise' 'technicalExercise' 'test' '_extended'}
Documentation	Status of the related information (i.e. real, test or exercise).

Schema Component Representation

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

[top](#)

Simple Type: Integer

<i>Super-types:</i>	xs:integer < Integer (by restriction)
<i>Sub-types:</i>	None

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

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

Schema Component Representation

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

[top](#)

Simple Type: Language

<i>Super-types:</i>	xs:language < Language (by restriction)
<i>Sub-types:</i>	None

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

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

Schema Component Representation

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

[top](#)

Simple Type: LongString

<i>Super-types:</i>	xs:string < LongString (by restriction)
<i>Sub-types:</i>	None

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

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

Schema Component Representation

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

[top](#)

Simple Type: MetresAsFloat

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

Name MetresAsFloat
Content

- Base XSD Type: float

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

Schema Component Representation

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

[top](#)

Simple Type: MetresAsNonNegativeInteger

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

Name MetresAsNonNegativeInteger
Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

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

[top](#)

Simple Type: MultilingualStringValue

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

- [MultilingualStringValue](#) (by extension)

Name MultilingualStringValue
Content

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

Schema Component Representation

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

[top](#)

Simple Type: NonNegativeInteger

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

Sub-types:

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

Name NonNegativeInteger

Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

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

[top](#)

Simple Type: **Percentage**

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

Sub-types: None

Name Percentage

Content

- Base XSD Type: float

Documentation A measure of percentage.

Schema Component Representation

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

[top](#)

Simple Type: **Seconds**

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

Sub-types: None

Name Seconds

Content

- Base XSD Type: float

Documentation Seconds.

Schema Component Representation

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

[top](#)

Simple Type: **String**

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

Sub-types:

- [CountryCode](#) (by restriction)

Name String

Content

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

Documentation A character string whose value space is the set of finite-length sequences of characters. Every character has a corresponding Universal Character Set code point

(as defined in ISO/IEC 10646), which is an integer.

Schema Component Representation

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

[top](#)

Simple Type: **Url**

Super-types: [xs:anyURI](#) < **Url** (by restriction)

Sub-types: None

Name Url

Content

- Base XSD Type: anyURI

Documentation A Uniform Resource Locator (URL) address comprising a compact string of characters for a resource available on the Internet.

Schema Component Representation

```
<xs:simpleType name="Url">
  <xs:restriction base="xs:anyURI"/>
</xs:simpleType>
```

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Simple Type: **UrlLinkTypeEnum**

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

Sub-types:

- [_UrlLinkTypeEnum](#) (by extension)

Name UrlLinkTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'documentPdf','html','image','rss','videoStream','voiceStream','other','_extended'}

Documentation Types of URL links.

Schema Component Representation

```
<xs:simpleType name="UrlLinkTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="documentPdf"/>
    <xs:enumeration value="html"/>
    <xs:enumeration value="image"/>
    <xs:enumeration value="rss"/>
    <xs:enumeration value="videoStream"/>
    <xs:enumeration value="voiceStream"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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DATEXII_3_D2Payload

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Schema Document Properties

Target Namespace	http://datex2.eu/schema/3/d2Payload
Version	3.3
Element and Attribute Namespaces	<ul style="list-style-type: none">• Global element and attribute declarations belong to this schema's target namespace.• By default, local element declarations belong to this schema's target namespace.• By default, local attribute declarations have no namespace.
Schema Composition	<ul style="list-style-type: none">• This schema imports schema(s) from the following namespace(s):<ul style="list-style-type: none">◦ http://datex2.eu/schema/3/locationExtension (at DATEXII_3_LocationExtension.xsd)◦ http://datex2.eu/schema/3/parking (at DATEXII_3_Parking.xsd)◦ http://datex2.eu/schema/3/vms (at DATEXII_3_Vms.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
prk	http://datex2.eu/schema/3/parking
vms	http://datex2.eu/schema/3/vms
loc	http://datex2.eu/schema/3/locationReferencing
com	http://datex2.eu/schema/3/common
d2	http://datex2.eu/schema/3/d2Payload

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified"
version="3.3" targetNamespace="http://datex2.eu/schema/3/d2Payload">
  <xs:import namespace="http://datex2.eu/schema/3/locationExtension"
schemaLocation="DATEXII_3_LocationExtension.xsd"/>
  <xs:import namespace="http://datex2.eu/schema/3/parking"
schemaLocation="DATEXII_3_Parking.xsd"/>
  <xs:import namespace="http://datex2.eu/schema/3/vms"
schemaLocation="DATEXII_3_Vms.xsd"/>
  <xs:import namespace="http://datex2.eu/schema/3/locationReferencing"
schemaLocation="DATEXII_3_LocationReferencing.xsd"/>
```



```
<xs:import namespace="http://datex2.eu/schema/3/common"
schemaLocation="DATEXII_3_Common.xsd"/>
...
</xs:schema>
```

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Global Declarations

Element: **payload**

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

XML Instance Representation

```
<d2:payload> com:PayloadPublication
<!--
  Uniqueness Constraint - \_payloadVmsControllerConstraint
  Selector - ../vms:vmsController
  Field(s) - @id, @version
-->
<!--
  Uniqueness Constraint - \_payloadVmsControllerTableConstraint
  Selector - ../vms:vmsControllerTable
  Field(s) - @id, @version
-->
</d2:payload>
```

Schema Component Representation

```
<xs:element name="payload" type="com:PayloadPublication">
  <xs:unique name="_payloadVmsControllerConstraint">
    <xs:selector xpath="../vms:vmsController"/>
    <xs:field xpath="@id"/>
    <xs:field xpath="@version"/>
  </xs:unique>
  <xs:unique name="_payloadVmsControllerTableConstraint">
    <xs:selector xpath="../vms:vmsControllerTable"/>
    <xs:field xpath="@id"/>
    <xs:field xpath="@version"/>
  </xs:unique>
</xs:element>
```

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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	<ul style="list-style-type: none">• Global element and attribute declarations belong to this schema's target namespace.• By default, local element declarations belong to this schema's target namespace.• By default, local attribute declarations have no namespace.
Schema Composition	<ul style="list-style-type: none">• This schema imports schema(s) from the following namespace(s):<ul style="list-style-type: none">◦ http://datex2.eu/schema/3/common (at DATEXII_3_Common.xsd)

Declared Namespaces

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

[top](#)

Global Definitions

Complex Type: **NamedAreaExtended**

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

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Complex Type: **SupplementaryPositionalDescriptionExtended**

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

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Complex Type: **_HouseNumberSideEnum**

<i>Super-types:</i>	xs:string < HouseNumberSideEnum (by restriction) < _HouseNumberSideEnum (by extension)
<i>Sub-types:</i>	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>
```

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Simple Type: **HouseNumberSideEnum**

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

Sub-types:

- [_HouseNumberSideEnum](#) (by extension)

Name HouseNumberSideEnum

Content

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

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

Schema Component Representation

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

[top](#)

Simple Type: **NamedAreaCode**

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

Sub-types: None

Name NamedAreaCode

Content

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

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

Schema Component Representation

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


DATEXII_3_LocationReferencing

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- [Simple Type: TpegLoc01SimplePointLocationSubtypeEnum](#)
- [Simple Type: TpegLoc03AreaDescriptorSubtypeEnum](#)
- [Simple Type: TpegLoc03IlcPointDescriptorSubtypeEnum](#)
- [Simple Type: TpegLoc03JunctionPointDescriptorSubtypeEnum](#)
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Schema Document Properties

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

Version 3.3

Element and Attribute Namespaces

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

Schema Composition

- This schema imports schema(s) from the following namespace(s):
 - <http://datex2.eu/schema/3/common> (at DATEXII_3_Common.xsd)
 - <http://datex2.eu/schema/3/locationExtension> (at DATEXII_3_LocationExtension.xsd)

Declared Namespaces

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

Schema Component Representation

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

```

<xs:import namespace="http://datex2.eu/schema/3/common" schemaLocation="DATEXII_3_Common.xsd"/>
<xs:import namespace="http://datex2.eu/schema/3/locationExtension"
schemaLocation="DATEXII_3_LocationExtension.xsd"/>
...
</xs:schema>

```

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Global Definitions

Complex Type: AlertCArea

Super-types: None
Sub-types: None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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Complex Type: AlertCDirection

Super-types: None
Sub-types: None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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Complex Type: AlertCLinear

Super-types: None
Sub-types:

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

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

XML Instance Representation

```

<...>

```



```

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

```

Schema Component Representation

```

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

```

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Complex Type: AlertCLinearByCode

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

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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Complex Type: AlertCLocation

Super-types: None
 Sub-types: None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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Complex Type: AlertCMethod2Linear

Super-types: [AlertCLinear](#) < AlertCMethod2Linear (by extension)
 Sub-types: None

Name AlertCMethod2Linear

Abstract

no

Documentation

A linear section along a road between two points, primary and secondary, which are pre-defined in an ALERT-C location table. Direction is FROM the secondary point TO the primary point, i.e. the primary point is downstream of the secondary point.

XML Instance Representation

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

Schema Component Representation

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

[top](#)**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>
```

[top](#)**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>
```

[top](#)

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>
```

[top](#)

Complex Type: AlertCMethod4Linear

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: AlertCMethod4Point

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: AlertCMethod4PrimaryPointLocation

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: AlertCMethod4SecondaryPointLocation

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: AlertCPoint

Super-types:	None
Sub-types:	<ul style="list-style-type: none">AlertCMethod2Point (by extension)

- [AlertCMethod4Point](#) (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **AltitudeConfidence**

Super-types:	None
Sub-types:	None

Name	AltitudeConfidence
Abstract	no
Documentation	Evaluation of the altitude confidence assessed according to ETSI ISO 102894-2

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **AreaDestination**

Super-types:	Destination < AreaDestination (by extension)
Sub-types:	None

Name	AreaDestination
Abstract	no
Documentation	The specification of the destination of a defined route or itinerary which is an area.

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: **AreaLocation**

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

Sub-types: None

Name [AreaLocation](#)

Abstract no

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [Carriageway](#)

Super-types: None

Sub-types: None

Name [Carriageway](#)

Abstract no

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

XML Instance Representation

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

Schema Component Representation

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

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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>
```

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Complex Type: DistanceAlongLinearElement

Super-types:None

Sub-types:

- DistanceFromLinearElementReferent (by extension)
- DistanceFromLinearElementStart (by extension)
- PercentageDistanceAlongLinearElement (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: DistanceFromLinearElementReferent

Super-types:DistanceAlongLinearElement < DistanceFromLinearElementReferent (by extension)

Sub-types:None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: DistanceFromLinearElementStart

Super-types:DistanceAlongLinearElement < DistanceFromLinearElementStart (by extension)

Sub-types:None

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

XML Instance Representation

```
<...>
```

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

Schema Component Representation

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

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Complex Type: ExternalReferencing

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: GmlLineString

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

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: GmlLinearRing

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

Name	GmlLinearRing
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: GmlMultiPolygon

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: GmlPolygon

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: HeightCoordinate

Super-types:	None
Sub-types:	None

Name	HeightCoordinate
Abstract	no

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>
```

[top](#)

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>
```

[top](#)

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>
```

[top](#)

Complex Type: **LinearElement**

Super-types: None

Sub-types:

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

Name LinearElement

Abstract no

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [LinearElementByCode](#)

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

Sub-types: None

Name LinearElementByCode

Abstract no

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [LinearElementByLineString](#)

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

Sub-types: None

Name LinearElementByLineString

Abstract no

Documentation A linear element defined by a line string (class GmlLineString).

XML Instance Representation

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

```

<loc: linearElementExtension> com: _ExtensionType </loc: linearElementExtension> [0..1]
<loc:gmlLineString> loc:GmlLineString </loc:gmlLineString> [1]
<loc: _linearElementByLineStringExtension> com: _ExtensionType </loc: _linearElementByLineStringExtension> [0..1]
</...>

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: LinearElementByPoints

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

Sub-types: None

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

XML Instance Representation

```

<...>
  <loc:roadName> com:MultilingualString </loc:roadName> [0..1] ?
  <loc:roadNumber> com:String </loc:roadNumber> [0..1] ?
  <loc:linearElementReferenceModel> com:String </loc:linearElementReferenceModel> [0..1] ?
  <loc:linearElementReferenceModelVersion> com:String </loc:linearElementReferenceModelVersion> [0..1] ?
  <loc:linearElementNature> loc: _LinearElementNatureEnum </loc:linearElementNature> [0..1] ?
  <loc: linearElementExtension> com: _ExtensionType </loc: linearElementExtension> [0..1]
  <loc:startPointOfLinearElement> loc:Referent </loc:startPointOfLinearElement> [1] ?
  <loc:intermediatePointOnLinearElement> loc: _IntermediatePointOnLinearElement
  </loc:intermediatePointOnLinearElement> [0..*] ?
  <loc:endPointOfLinearElement> loc:Referent </loc:endPointOfLinearElement> [1] ?
  <loc: _linearElementByPointsExtension> com: _ExtensionType </loc: _linearElementByPointsExtension> [0..1]
</...>

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: LinearLocation

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

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

Name	LinearLocation
Abstract	no
Documentation	Location representing a linear section with optional directionality defined between two points.

XML Instance Representation

```

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

```

Schema Component Representation

```

<xs:complexType name="LinearLocation">
  <xs:complexContent>
    <xs:extension base="loc:NetworkLocation">
      <xs:sequence>

```

```

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

```

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Complex Type: LinearWithinLinearElement

Super-types: None

Sub-types: None

Name LinearWithinLinearElement

Abstract no

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: Location

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

Sub-types:

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

Name Location

Abstract yes

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: LocationByReference

Super-types:	LocationReference < Location (by extension) < LocationByReference (by extension)
Sub-types:	None

Name	LocationByReference
Abstract	no
Documentation	A location defined by reference to a predefined location.

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [LocationReference](#)

Super-types:	None
Sub-types:	<ul style="list-style-type: none"> Location (by extension) <ul style="list-style-type: none"> AreaLocation (by extension) LocationByReference (by extension) NetworkLocation (by extension) <ul style="list-style-type: none"> LinearLocation (by extension) <ul style="list-style-type: none"> SingleRoadLinearLocation (by extension) PointLocation (by extension)

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

Schema Component Representation

```
<xs:complexType name="LocationReference" abstract="true">
  <xs:sequence>
    <xs:element name="_locationReferenceExtension" type="com: \_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

[top](#)

Complex Type: [NamedArea](#)

Super-types:	NamedArea < NamedArea (by extension)
Sub-types:	<ul style="list-style-type: none"> 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> com:_ExtensionType </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>
```

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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>
```

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:complexType>

```

[top](#)

Complex Type: OpenlrBaseReferencePoint

Super-types: None

Sub-types:

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

Name OpenlrBaseReferencePoint

Abstract yes

Documentation Base class used to hold data about a reference point.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrCircleLocationReference

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

Sub-types: None

Name OpenlrCircleLocationReference

Abstract no

Documentation The OpenLR method of area definition by providing a center position and a radius

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrClosedLineLocationReference

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

Sub-types: None

Name OpenlrClosedLineLocationReference

Abstract no

Documentation The OpenLR method of area definition by providing a closed path (i.e. a circuit) in the road network. The boundary always consists of road segments

XML Instance Representation

```

<...>
  <loc:openlrAreaLocationReferenceExtension> com:ExtensionType </loc:openlrAreaLocationReferenceExtension> [0..1]
  <loc:openlrLocationReferencePoint> loc:OpenlrLocationReferencePoint </loc:openlrLocationReferencePoint> [1..*]
  <loc:openlrLastLine> loc:OpenlrLastLocationReferencePoint </loc:openlrLastLine> [1] ?
  <loc:openlrClosedLineLocationReferenceExtension> com:ExtensionType
</loc:openlrClosedLineLocationReferenceExtension> [0..1]
</...>

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrGeoCoordinate

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

Sub-types: None

Name OpenlrGeoCoordinate

Abstract no

Documentation A geo-coordinate pair is a position in a map defined by its longitude and latitude coordinate values.

XML Instance Representation

```

<...>
  <loc:openlrPointLocationReferenceExtension> com:ExtensionType </loc:openlrPointLocationReferenceExtension>
[0..1]
  <loc:openlrCoordinates> loc:PointCoordinates </loc:openlrCoordinates> [1] ?
  <loc:_openlrGeoCoordinateExtension> com:ExtensionType </loc:_openlrGeoCoordinateExtension> [0..1]
</...>

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrGridLocationReference

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

Sub-types: None

Name OpenlrGridLocationReference

Abstract no

Documentation Area defined using an OpenLR™ method consisting in defining it by a tessellation of rectangles

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: **OpenlrLastLocationReferencePoint**

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **OpenlrLineAttributes**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **OpenlrLineLocationReference**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="OpenlrLineLocationReference">
  <xs:sequence>
    <xs:element name="openlrLocationReferencePoint" type="loc:OpenlrLocationReferencePoint" maxOccurs="unbounded"/>
    <xs:element name="openlrLastLocationReferencePoint" type="loc:OpenlrLastLocationReferencePoint"/>
  </xs:sequence>
</xs:complexType>
```

```

<xs:element name="openlrOffsets" type="loc:OpenlrOffsets" minOccurs="0"/>
<xs:element name="_openlrLineLocationReferenceExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: OpenlrLinear

Super-types: None
Sub-types: None

Name OpenlrLinear
Abstract no
Documentation OpenLR line location reference

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrLocationReferencePoint

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

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrOffsets

Super-types: None
Sub-types: None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrPathAttributes

Super-types: None
Sub-types: None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrPoiWithAccessPoint

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

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrPointAlongLine

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

Name OpenlrPointAlongLine
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: OpenlrPointLocationReference

Super-types:None

Sub-types:

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: OpenlrPolygonCorners

Super-types:None

Sub-types:None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: OpenlrPolygonLocationReference

Super-types:OpenlrAreaLocationReference < OpenlrPolygonLocationReference (by extension)

Sub-types:None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: OpenlrRectangle

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: OpenlrRectangleLocationReference

Super-types:	OpenlrAreaLocationReference < OpenlrRectangleLocationReference (by extension)
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: PercentageDistanceAlongLinearElement

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **PointAlongLinearElement**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **PointByCoordinates**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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



```

<xs:element name="pointCoordinates" type="loc:PointCoordinates"/>
<xs:element name="_pointByCoordinatesExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: PointCoordinates

Super-types: None

Sub-types: None

Name PointCoordinates

Abstract no

Documentation A pair of planar coordinates defining the geodetic position of a single point using the European Terrestrial Reference System 1989 (ETRS89).

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

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>

```

[top](#)

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> com:_ExtensionType </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>

```

[top](#)

Complex Type: **PositionAccuracy**

Super-types: None
Sub-types: None

Name PositionAccuracy
Abstract no
Documentation Horizontal position accuracy parameters defined according to EN 16803-1

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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Complex Type: **PositionConfidenceEllipse**

Super-types: None
Sub-types: None

Name PositionConfidenceEllipse
Abstract no
Documentation Confidence ellipse position defined in a shape of ellipse with a predefined confidence level (e.g. 95 %). The centre of the ellipse shape corresponds to the reference position point for which the position accuracy is evaluated.

XML Instance Representation

```

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

```

Schema Component Representation

```

<xs:complexType name="PositionConfidenceEllipse">
  <xs:sequence>
    <xs:element name="semiMajorAxisLength" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="semiMajorAxisLengthCodedError" type="loc:_PositionConfidenceCodedErrorEnum" minOccurs="0"
      maxOccurs="1"/>

```

```

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

```

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Complex Type: Referent

Super-types: None
Sub-types: None

Name Referent
Abstract no
Documentation A referent on a linear object that has a known location such as a node, a reference marker (e.g. a marker-post), an intersection etc.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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Complex Type: RoadInformation

Super-types: None
Sub-types: None

Name RoadInformation
Abstract no
Documentation Information on a road

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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Complex Type: SingleRoadLinearLocation

Super-types: [LocationReference](#) < [Location](#) (by extension) < [NetworkLocation](#) (by extension) < [LinearLocation](#) (by extension) < **SingleRoadLinearLocation** (by extension)
Sub-types: None

Name SingleRoadLinearLocation
Abstract no
Documentation Location representing a linear section along a single road with optional directionality defined between two points on the same road. No matter the kind of linear reference it uses, the constraint of using only a single road must be preserved.

XML Instance Representation

```

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

```

Schema Component Representation

```

<xs:complexType name="SingleRoadLinearLocation">
  <xs:complexContent>
    <xs:extension base="loc:LinearLocation">
      <xs:sequence>
        <xs:element name="tpegLinearLocation" type="loc:TpegLinearLocation" minOccurs="0" maxOccurs="1"/>
        <xs:element name="alertCLinear" type="loc:AlertCLinear" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="linearWithinLinearElement" type="loc:LinearWithinLinearElement" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="_singleRoadLinearLocationExtension" type="com:_ExtensionType" minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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Complex Type: SupplementaryPositionalDescription

Super-types: None
Sub-types: None

Name SupplementaryPositionalDescription
Abstract no
Documentation A collection of supplementary positional information which improves the precision of the location.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

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Complex Type: TpegAreaDescriptor

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

Name TpegAreaDescriptor
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: TpegAreaLocation

Super-types:None

Sub-types:

- TpegGeometricArea (by extension)
- TpegNamedOnlyArea (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: TpegDescriptor

Super-types:None

Sub-types:

- TpegAreaDescriptor (by extension)
- TpegPointDescriptor (by extension)
 - 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>
```

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Complex Type: TpegFramedPoint

Super-types: [TpegPointLocation](#) < **TpegFramedPoint** (by extension)
Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: TpegGeometricArea

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

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

XML Instance Representation

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

Schema Component Representation

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

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Complex Type: TpegHeight

Super-types: None
Sub-types: None

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

XML Instance Representation

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

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

Schema Component Representation

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

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Complex Type: TpegIlcPointDescriptor

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

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

XML Instance Representation

```
<...>
  <loc:descriptor> com:MultilingualString </loc:descriptor> [1] ?
  <loc:tpgDescriptorExtension> com:_ExtensionType </loc:tpgDescriptorExtension> [0..1]
  <loc:tpgPointDescriptorExtension> com:_ExtensionType </loc:tpgPointDescriptorExtension> [0..1]
  <loc:tpgIlcPointDescriptorType> loc:_TpegLoc03IlcPointDescriptorSubtypeEnum </loc:tpgIlcPointDescriptorType> [1]
  ?
  <loc:_tpgIlcPointDescriptorExtension> com:_ExtensionType </loc:_tpgIlcPointDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

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

[top](#)

Complex Type: TpegJunction

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

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

XML Instance Representation

```
<...>
  <loc:tpgPointExtension> com:_ExtensionType </loc:tpgPointExtension> [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:_tpgJunctionExtension> com:_ExtensionType </loc:_tpgJunctionExtension> [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="_tpgJunctionExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: TpegJunctionPointDescriptor

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **TpegLinearLocation**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="TpegLinearLocation">
  <xs:sequence>
    <xs:element name="tpegDirection" type="loc: _DirectionEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="tpegLinearLocationType" type="loc: _TpegLoc01LinearLocationSubtypeEnum" minOccurs="1"
      maxOccurs="1"/>
    <xs:element name="to" type="loc:TpegPoint"/>
    <xs:element name="from" type="loc:TpegPoint"/>
    <xs:element name="_tpegLinearLocationExtension" type="com: _ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

[top](#)

Complex Type: **TpegNamedOnlyArea**

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

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

XML Instance Representation

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

Schema Component Representation

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



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

[top](#)

Complex Type: TpegNonJunctionPoint

Super-types: [TpegPoint](#) < **TpegNonJunctionPoint** (by extension)

Sub-types: None

Name TpegNonJunctionPoint

Abstract no

Documentation A point on the road network which is not a road junction point.

XML Instance Representation

```
<...>
  <loc:_tppegPointExtension> com:_ExtensionType </loc:_tppegPointExtension> [0..1]
  <loc:pointCoordinates> loc:PointCoordinates </loc:pointCoordinates> [1]
  <loc:name> loc:TpegOtherPointDescriptor </loc:name> [1..*] ?
  <loc:_tppegNonJunctionPointExtension> com:_ExtensionType </loc:_tppegNonJunctionPointExtension> [0..1]
</...>
```

Schema Component Representation

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

[top](#)

Complex Type: TpegOtherPointDescriptor

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

Sub-types: None

Name TpegOtherPointDescriptor

Abstract no

Documentation General descriptor for describing a point.

XML Instance Representation

```
<...>
  <loc:descriptor> com:MultilingualString </loc:descriptor> [1] ?
  <loc:_tppegDescriptorExtension> com:_ExtensionType </loc:_tppegDescriptorExtension> [0..1]
  <loc:_tppegPointDescriptorExtension> com:_ExtensionType </loc:_tppegPointDescriptorExtension> [0..1]
  <loc:tppegOtherPointDescriptorType> loc:_TpegLoc030OtherPointDescriptorSubtypeEnum
  </loc:tppegOtherPointDescriptorType> [1] ?
  <loc:_tppegOtherPointDescriptorExtension> com:_ExtensionType </loc:_tppegOtherPointDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegOtherPointDescriptor">
  <xs:complexContent>
    <xs:extension base="loc:TpegPointDescriptor">
      <xs:sequence>
        <xs:element name="tppegOtherPointDescriptorType" type="loc:_TpegLoc030OtherPointDescriptorSubtypeEnum"
          minOccurs="1" maxOccurs="1"/>
        <xs:element name="_tppegOtherPointDescriptorExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

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

Schema Component Representation

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

[top](#)

Complex Type: TpegPointDescriptor

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

Sub-types:

- [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:
Sub-types:

[xs:string](#) < [AlertCDirectionEnum](#) (by restriction) < [_AlertCDirectionEnum](#) (by extension)
None

Name	_AlertCDirectionEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_AltitudeAccuracyEnum**

Super-types:
Sub-types:

[xs:string](#) < [AltitudeAccuracyEnum](#) (by restriction) < [_AltitudeAccuracyEnum](#) (by extension)
None

Name	_AltitudeAccuracyEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_AreaPlacesEnum**

Super-types:
Sub-types:

[xs:string](#) < [AreaPlacesEnum](#) (by restriction) < [_AreaPlacesEnum](#) (by extension)
None

Name	_AreaPlacesEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_AreaPlacesEnum">
  <xs:simpleContent>
    <xs:extension base="loc:AreaPlacesEnum">
```

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

[top](#)

Complex Type: **_CarriagewayEnum**

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

Sub-types: None

Name **_CarriagewayEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_DirectionEnum**

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

Sub-types: None

Name **_DirectionEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_DirectionPurposeEnum**

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

Sub-types: None

Name **_DirectionPurposeEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_GeographicCharacteristicEnum**

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

Sub-types: None

Name GeographicCharacteristicEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: HeightGradeEnum

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

Name HeightGradeEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: HeightTypeEnum

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

Name HeightTypeEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: InfrastructureDescriptorEnum

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

Name InfrastructureDescriptorEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_IntermediatePointOnLinearElement**

Super-types: None
Sub-types: None

Name _IntermediatePointOnLinearElement
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_LaneEnum**

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

Name _LaneEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_LinearDirectionEnum**

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

Name _LinearDirectionEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_LinearElementNatureEnum](#)

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

Name [_LinearElementNatureEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_NamedAreaExtensionType](#)

Super-types: None
Sub-types: None

Name [_NamedAreaExtensionType](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_NamedAreaTypeEnum](#)

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

Name [_NamedAreaTypeEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_NutsCodeTypeEnum](#)

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

Name [_NutsCodeTypeEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_OpenlrFormOfWayEnum](#)

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

Name [_OpenlrFormOfWayEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_OpenlrFunctionalRoadClassEnum](#)

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

Name [_OpenlrFunctionalRoadClassEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_OpenlrOrientationEnum](#)

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

Name [_OpenlrOrientationEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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



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

[top](#)

Complex Type: **_OpenlrSideOfRoadEnum**

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

Name [_OpenlrSideOfRoadEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_PositionConfidenceCodedErrorEnum**

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

Name [_PositionConfidenceCodedErrorEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_PredefinedLocationVersionedReference**

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

Name [_PredefinedLocationVersionedReference](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_ReferentTypeEnum**

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

Sub-types: None

Name ReferTypeEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: RelativePositionOnCarriagewayEnum

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

Name RelativePositionOnCarriagewayEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: SubdivisionTypeEnum

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

Name SubdivisionTypeEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: SupplementaryPositionalDescriptionExtensionType

Super-types: None
Sub-types: None

Name SupplementaryPositionalDescriptionExtensionType
Abstract no

XML Instance Representation

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

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

Schema Component Representation

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

[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>
```

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

[top](#)

Complex Type: **_TpegLoc01SimplePointLocationSubtypeEnum**

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

Sub-types: None

Name [_TpegLoc01SimplePointLocationSubtypeEnum](#)

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_TpegLoc03AreaDescriptorSubtypeEnum**

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

Sub-types: None

Name [_TpegLoc03AreaDescriptorSubtypeEnum](#)

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_TpegLoc03IlcPointDescriptorSubtypeEnum**

Super-types: [xs:string](#) < [_TpegLoc03IlcPointDescriptorSubtypeEnum](#) (by restriction) < [_TpegLoc03IlcPointDescriptorSubtypeEnum](#) (by extension)

Sub-types: None

Name [_TpegLoc03IlcPointDescriptorSubtypeEnum](#)

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_TpegLoc03JunctionPointDescriptorSubtypeEnum**

Super-types: [xs:string](#) < [_TpegLoc03JunctionPointDescriptorSubtypeEnum](#) (by restriction) <

TpegLoc03JunctionPointDescriptorSubtypeEnum (by extension)

Sub-types: None

Name TpegLoc03JunctionPointDescriptorSubtypeEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: TpegLoc03OtherPointDescriptorSubtypeEnum

Super-types: [xs:string](#) < [TpegLoc03OtherPointDescriptorSubtypeEnum](#) (by restriction) < [_TpegLoc03OtherPointDescriptorSubtypeEnum](#) (by extension)

Sub-types: None

Name TpegLoc03OtherPointDescriptorSubtypeEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: TpegLoc04HeightTypeEnum

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

Sub-types: None

Name TpegLoc04HeightTypeEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Simple Type: AlertCDirectionEnum

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

Sub-types:

- [_AlertCDirectionEnum](#) (by extension)

Name AlertCDirectionEnum

Content

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

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

[top](#)

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

Sub-types: None

- 'NonNegativeInteger' super type was not found in this schema. Its facets could not be printed out.
- $1 \leq \text{value} \leq 63487$

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.
----------------------	--

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

[top](#)

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

Sub-types:

- [AltitudeAccuracyEnum](#) (by extension)

- Base XSD Type: string
- *value* comes from list:
`{equalToOrLessThan1Centimetre|equalToOrLessThan2Centimetres|equalToOrLessThan5Centimetres|equalToOrLessThan10Centimetres|equalToOrLessThan20Centimetres}`

Documentation Coded level of vertical accuracy

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

[top](#)

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

Sub-types:

- [_AreaPlacesEnum](#) (by extension)

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

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>
```

[top](#)

Simple Type: CarriagewayEnum

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

Sub-types:

- [_CarriagewayEnum](#) (by extension)

Name	CarriagewayEnum
Content	<ul style="list-style-type: none">Base XSD Type: stringvalue comes from list: {connectingCarriageway 'cycleTrack' 'entrySlipRoad' 'exitSlipRoad' 'flyover' 'footpath' 'leftHandFeederRoad' 'leftHandParallelCarriageway' 'mainCarriageway' 'oppositeCarriageway' 'parallelCarriageway' 'roundabout' 'serviceRoad' 'slipRoads' 'underpass' 'unspecifiedCarriageway' '_extended'}
Documentation	List of descriptors identifying specific carriageway details.

Schema Component Representation

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

[top](#)

Simple Type: DirectionEnum

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

Sub-types:

- [_DirectionEnum](#) (by extension)

Name	DirectionEnum
Content	<ul style="list-style-type: none">Base XSD Type: stringvalue comes from list: {aligned 'allDirections' 'anticlockwise' 'bothWays' 'clockwise' 'innerRing' 'outerRing' 'eastBound' 'northBound' 'northEastBound' 'northWestBound' 'southBound' '_extended'}
Documentation	List of directions of travel.

Schema Component Representation

```
<xs:simpleType name="DirectionEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="aligned"/>
    <xs:enumeration value="allDirections"/>
    <xs:enumeration value="anticlockwise"/>
    <xs:enumeration value="bothWays"/>
    <xs:enumeration value="clockwise"/>
    <xs:enumeration value="innerRing"/>
    <xs:enumeration value="outerRing"/>
    <xs:enumeration value="eastBound"/>
    <xs:enumeration value="northBound"/>
    <xs:enumeration value="southBound"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

```
<xs:enumeration value="northEastBound"/>
<xs:enumeration value="northWestBound"/>
<xs:enumeration value="southBound"/>
<xs:enumeration value="southEastBound"/>
<xs:enumeration value="southWestBound"/>
<xs:enumeration value="westBound"/>
<xs:enumeration value="inboundTowardsTown"/>
<xs:enumeration value="outboundFromTown"/>
<xs:enumeration value="opposite"/>
<xs:enumeration value="unknown"/>
<xs:enumeration value="other"/>
<xs:enumeration value="_extended"/>
</xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **DirectionPurposeEnum**

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

Sub-types:

- [_DirectionPurposeEnum](#) (by extension)

Name DirectionPurposeEnum

Content

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

Documentation Main purpose of a direction of a road

Schema Component Representation

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

[top](#)

Simple Type: **GeographicCharacteristicEnum**

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

Sub-types:

- [_GeographicCharacteristicEnum](#) (by extension)

Name GeographicCharacteristicEnum

Content

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

Documentation Descriptor to help to identify a specific location.

Schema Component Representation

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

[top](#)

Simple Type: **GmlPosList**

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

Sub-types: None

Name GmlPosList

Content

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

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

Schema Component Representation

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

[top](#)

Simple Type: **HeightGradeEnum**

Super-types:	xs:string < HeightGradeEnum (by restriction)
Sub-types:	<ul style="list-style-type: none">• _HeightGradeEnum (by extension)

Name	HeightGradeEnum
Content	<ul style="list-style-type: none">• Base XSD Type: string• <i>value</i> comes from list: {'aboveGrade' 'atGrade' 'belowGrade' '_extended'}
Documentation	List of height or vertical gradings of road sections.

Schema Component Representation

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

[top](#)

Simple Type: **HeightTypeEnum**

Super-types:	xs:string < HeightTypeEnum (by restriction)
Sub-types:	<ul style="list-style-type: none">• _HeightTypeEnum (by extension)

Name	HeightTypeEnum
Content	<ul style="list-style-type: none">• Base XSD Type: string• <i>value</i> comes from list: {'ellipsoidalHeight' 'gravityRelatedHeight' 'relativeHeight' '_extended'}
Documentation	Coded value for type of height

Schema Component Representation

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

[top](#)

Simple Type: **InfrastructureDescriptorEnum**

Super-types:	xs:string < InfrastructureDescriptorEnum (by restriction)
Sub-types:	<ul style="list-style-type: none">• _InfrastructureDescriptorEnum (by extension)

Name	InfrastructureDescriptorEnum
Content	<ul style="list-style-type: none">• Base XSD Type: string• <i>value</i> 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>
```

[top](#)

Simple Type: **NamedAreaTypeEnum**

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

Sub-types:

- [_NamedAreaTypeEnum](#) (by extension)

Name	NamedAreaTypeEnum
Content	<ul style="list-style-type: none">Base XSD Type: string<i>value</i> comes from list: {'applicationRegion' 'continent' 'country' 'countryGroup' 'carParkArea' 'carpoolArea' 'fuzzyArea' 'industrialArea' 'lake' 'meteorologicalArea' 'metropolitanArea' 'municipality' 'parkAndRideSite' 'ruralCounty' 'sea' 'touristArea' 'trafficArea' 'urbanCounty' 'order1AdministrativeArea' 'order2AdministrativeArea' 'order3AdministrativeArea' 'order4AdministrativeArea' 'order5AdministrativeArea' 'policeForceControlArea' 'roadOperatorControlArea' 'waterArea' '_extended'}
Documentation	Types of areas.

Schema Component Representation

```
<xs:simpleType name="NamedAreaTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="applicationRegion"/>
    <xs:enumeration value="continent"/>
    <xs:enumeration value="country"/>
    <xs:enumeration value="countryGroup"/>
    <xs:enumeration value="carParkArea"/>
    <xs:enumeration value="carpoolArea"/>
    <xs:enumeration value="fuzzyArea"/>
    <xs:enumeration value="industrialArea"/>
    <xs:enumeration value="lake"/>
    <xs:enumeration value="meteorologicalArea"/>
    <xs:enumeration value="metropolitanArea"/>
    <xs:enumeration value="municipality"/>
    <xs:enumeration value="parkAndRideSite"/>
    <xs:enumeration value="ruralCounty"/>
    <xs:enumeration value="sea"/>
    <xs:enumeration value="touristArea"/>
    <xs:enumeration value="trafficArea"/>
    <xs:enumeration value="urbanCounty"/>
    <xs:enumeration value="order1AdministrativeArea"/>
    <xs:enumeration value="order2AdministrativeArea"/>
    <xs:enumeration value="order3AdministrativeArea"/>
    <xs:enumeration value="order4AdministrativeArea"/>
    <xs:enumeration value="order5AdministrativeArea"/>
    <xs:enumeration value="policeForceControlArea"/>
    <xs:enumeration value="roadOperatorControlArea"/>
    <xs:enumeration value="waterArea"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **NutsCode**

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

Sub-types: None

Name	NutsCode
Content	<ul style="list-style-type: none">'String' super type was not found in this schema. Its facets could not be printed out.<i>length</i> <= 5
Documentation	A NUTS code (Nomenclature of territorial units for statistics).

Schema Component Representation

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

[top](#)

Simple Type: **NutsCodeTypeEnum**

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

Sub-types:

- [_NutsCodeTypeEnum](#) (by extension)

Name	NutsCodeTypeEnum
------	------------------

Content	<ul style="list-style-type: none">• Base XSD Type: string• <i>value</i> comes from list: {'nuts1Code' 'nuts2Code' 'nuts3Code' 'lau1Code' 'lau2Code' '_extended'}
Documentation	Types of NUTS codes (Nomenclature of territorial units for statistics) including LAU codes (Local Administrative Units).

Schema Component Representation

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

[top](#)

Simple Type: **OpenlrFormOfWayEnum**

Super-types:	xs:string < OpenlrFormOfWayEnum (by restriction)
Sub-types:	<ul style="list-style-type: none">• _OpenlrFormOfWayEnum (by extension)

Name	OpenlrFormOfWayEnum
Content	<ul style="list-style-type: none">• Base XSD Type: string• <i>value</i> comes from list: {undefined 'motorway' 'multipleCarriageway' 'singleCarriageway' 'roundabout' 'slipRoad' 'trafficSquare' 'other' '_extended'}
Documentation	Enumeration of for of way

Schema Component Representation

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

[top](#)

Simple Type: **OpenlrFunctionalRoadClassEnum**

Super-types:	xs:string < OpenlrFunctionalRoadClassEnum (by restriction)
Sub-types:	<ul style="list-style-type: none">• _OpenlrFunctionalRoadClassEnum (by extension)

Name	OpenlrFunctionalRoadClassEnum
Content	<ul style="list-style-type: none">• Base XSD Type: string• <i>value</i> comes from list: {'frc0' 'frc1' 'frc2' 'frc3' 'frc4' 'frc5' 'frc6' 'frc7' '_extended'}
Documentation	Enumeration of functional road class

Schema Component Representation

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

[top](#)

Simple Type: **OpenlrOrientationEnum**

Super-types:	xs:string < OpenlrOrientationEnum (by restriction)
Sub-types:	<ul style="list-style-type: none">• _OpenlrOrientationEnum (by extension)

Name	OpenlrOrientationEnum
Content	

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

Documentation

Enumeration of orientation

Schema Component Representation

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

[top](#)

Simple Type: **OpenlrSideOfRoadEnum**

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

Sub-types:

- [_OpenlrSideOfRoadEnum](#) (by extension)

Name

OpenlrSideOfRoadEnum

Content

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

Documentation

Enumeration of side of road

Schema Component Representation

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

[top](#)

Simple Type: **PositionConfidenceCodedErrorEnum**

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

Sub-types:

- [_PositionConfidenceCodedErrorEnum](#) (by extension)

Name

PositionConfidenceCodedErrorEnum

Content

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

Documentation

Error code for horizontal or vertical position confidence

Schema Component Representation

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

[top](#)

Simple Type: **ReferentTypeEnum**

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

Sub-types:

- [_ReferentTypeEnum](#) (by extension)

Name

ReferentTypeEnum

Content

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

Documentation

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

Schema Component Representation

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

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

[top](#)

Simple Type: **RelativePositionOnCarriagewayEnum**

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

Sub-types:

- [_RelativePositionOnCarriagewayEnum](#) (by extension)

Name RelativePositionOnCarriagewayEnum

Content

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

Documentation Identifies a relative position across a carriageway

Schema Component Representation

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

[top](#)

Simple Type: **SubdivisionCode**

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

Sub-types: None

Name SubdivisionCode

Content

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

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

Schema Component Representation

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

[top](#)

Simple Type: **SubdivisionTypeEnum**

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

Sub-types:

- [_SubdivisionTypeEnum](#) (by extension)

Name SubdivisionTypeEnum

Content

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

Documentation ISO 3166-2 subdivision types.

Schema Component Representation

```
<xs:simpleType name="SubdivisionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="administrativeAtoll"/>
    <xs:enumeration value="administrativeRegion"/>
    <xs:enumeration value="administrativeTerritory"/>
    <xs:enumeration value="arcticRegion"/>
    <xs:enumeration value="autonomousCity"/>
    <xs:enumeration value="autonomousCityInNorthAfrica"/>
    <xs:enumeration value="autonomousCommunity"/>
    <xs:enumeration value="autonomousDistrict"/>
    <xs:enumeration value="autonomousProvince"/>
    <xs:enumeration value="autonomousRegion"/>
    <xs:enumeration value="canton"/>
    <xs:enumeration value="capitalCity"/>
    <xs:enumeration value="city"/>
    <xs:enumeration value="cityMunicipality"/>
    <xs:enumeration value="cityOfCountyRight"/>
    <xs:enumeration value="commune"/>
  </xs:restriction>
</xs:simpleType>
```

```

<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>
```

[top](#)

Simple Type: TpegLoc01SimplePointLocationSubtypeEnum

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

Sub-types:

- [_TpegLoc01SimplePointLocationSubtypeEnum](#) (by extension)

Name TpegLoc01SimplePointLocationSubtypeEnum

Content

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

Documentation Types of simple point.

Schema Component Representation

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

[top](#)

Simple Type: TpegLoc03AreaDescriptorSubtypeEnum

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

Sub-types:

- [_TpegLoc03AreaDescriptorSubtypeEnum](#) (by extension)

Name TpegLoc03AreaDescriptorSubtypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'administrativeAreaName'|'administrativeReferenceName'|'areaName'|'countyName'|'lakeName'|'nationName'|'policeForceControlAreaName'|'regionName'|'seaName'|'townName'|'other'|'_extended'}

Documentation Descriptors for describing area locations.

Schema Component Representation

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

[top](#)

Simple Type: TpegLoc03IlcPointDescriptorSubtypeEnum

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

Sub-types:

- [_TpegLoc03IlcPointDescriptorSubtypeEnum](#) (by extension)

Name TpegLoc03IlcPointDescriptorSubtypeEnum

Content

- Base XSD Type: string

- *value* comes from list: {'tpegIlcName1'|'tpegIlcName2'|'tpegIlcName3'|'_extended'}

Documentation

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

Schema Component Representation

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

[top](#)

Simple Type: TpegLoc03JunctionPointDescriptorSubtypeEnum

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

Sub-types:

- [_TpegLoc03JunctionPointDescriptorSubtypeEnum](#) (by extension)

Name TpegLoc03JunctionPointDescriptorSubtypeEnum

Content

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

Documentation

Descriptors for describing a point at a road junction.

Schema Component Representation

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

[top](#)

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>
```

[top](#)

Simple Type: TpegLoc04HeightTypeEnum

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

Sub-types:

- [_TpegLoc04HeightTypeEnum](#) (by extension)

Name TpegLoc04HeightTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'above'|'aboveSeaLevel'|'aboveStreetLevel'|'at'|'atSeaLevel'|'atStreetLevel'|'below'|'belowSeaLevel'|'belowStreetLevel'|'undefined'|'unknown'|'other'|'_

Documentation Types of height.

Schema Component Representation

```
<xs:simpleType name="TpegLoc04HeightTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="above"/>
    <xs:enumeration value="aboveSeaLevel"/>
    <xs:enumeration value="aboveStreetLevel"/>
    <xs:enumeration value="at"/>
    <xs:enumeration value="atSeaLevel"/>
    <xs:enumeration value="atStreetLevel"/>
    <xs:enumeration value="below"/>
    <xs:enumeration value="belowSeaLevel"/>
    <xs:enumeration value="belowStreetLevel"/>
    <xs:enumeration value="undefined"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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DATEXII_3_Parking

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Schema Document Properties

Target Namespace	http://datex2.eu/schema/3/parking
Version	1
Element and Attribute Namespaces	<ul style="list-style-type: none">• Global element and attribute declarations belong to this schema's target namespace.• By default, local element declarations belong to this schema's target namespace.• By default, local attribute declarations have no namespace.
Schema Composition	<ul style="list-style-type: none">• This schema imports schema(s) from the following namespace(s):<ul style="list-style-type: none">◦ http://datex2.eu/schema/3/locationReferencing (at DATEXII_3_LocationReferencing.xsd)◦ http://datex2.eu/schema/3/common (at DATEXII_3_Common.xsd)

Declared Namespaces

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

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified"
version="1" targetNamespace="http://datex2.eu/schema/3/parking">
  <xs:import namespace="http://datex2.eu/schema/3/locationReferencing"
schemaLocation="DATEXII_3_LocationReferencing.xsd"/>
  <xs:import namespace="http://datex2.eu/schema/3/common"
schemaLocation="DATEXII_3_Common.xsd"/>
  ...
</xs:schema>
```

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Global Definitions

Complex Type: RoadInformationEnhanced

<i>Super-types:</i> 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>
```

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Complex Type: RoadTypeEnum

Super-types: [xs:string](#) < [RoadTypeEnum](#) (by restriction) < [_RoadTypeEnum](#) (by extension)

Sub-types: None

Name [_RoadTypeEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

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Simple Type: **RoadTypeEnum**

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

Sub-types:

- [_RoadTypeEnum](#) (by extension)

Name RoadTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'motorway'|'trunkRoad'|'mainRoad'|'other'|'_extended'}

Documentation Categorisation of the road type (motorway,main road,...).

Schema Component Representation

```
<xs:simpleType name="RoadTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="motorway"/>
    <xs:enumeration value="trunkRoad"/>
    <xs:enumeration value="mainRoad"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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 - [Complex Type: TextDisplay](#)
 - [Complex Type: TextDisplayArea](#)
 - [Complex Type: TextLine](#)
 - [Complex Type: Vms](#)
 - [Complex Type: VmsConfiguration](#)
 - [Complex Type: VmsController](#)
 - [Complex Type: VmsControllerFault](#)
 - [Complex Type: VmsControllerStatus](#)
 - [Complex Type: VmsControllerTable](#)
 - [Complex Type: VmsFault](#)
 - [Complex Type: VmsMessage](#)
 - [Complex Type: VmsPublication](#)
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 - [Complex Type: DedicatedUsageEnum](#)
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 - [Complex Type: GddServiceCategoryEnum](#)
 - [Complex Type: ImageFormatEnum](#)
 - [Complex Type: InformationTypeEnum](#)
 - [Complex Type: MessageInformationTypeEnum](#)
 - [Complex Type: MultiPageDisplayPageNumberDisplayAreaSettings](#)
 - [Complex Type: PhysicalSupportEnum](#)
 - [Complex Type: PictogramEnum](#)
 - [Complex Type: PositionXAbsoluteEnum](#)
 - [Complex Type: PositionXRelativeEnum](#)
 - [Complex Type: PositionYAbsoluteEnum](#)
 - [Complex Type: PositionYRelativeEnum](#)
 - [Complex Type: SettingReasonEnum](#)
 - [Complex Type: SituationRecordVersionedReference](#)
 - [Complex Type: SituationVersionedReference](#)
 - [Complex Type: SupplementalPictogramEnum](#)
 - [Complex Type: TextDisplayLineIndexTextLine](#)
 - [Complex Type: UnitOfMeasureEnum](#)
 - [Complex Type: VmsConfigurationDisplayAreaIndexDisplayArea](#)
 - [Complex Type: VmsControllerFaultEnum](#)
 - [Complex Type: VmsControllerStatusVmsIndexVmsStatus](#)
 - [Complex Type: VmsControllerTableVersionedReference](#)
 - [Complex Type: VmsControllerVersionedReference](#)
 - [Complex Type: VmsControllerVmsIndexVms](#)
 - [Complex Type: VmsFaultEnum](#)
 - [Complex Type: VmsMessageDisplayAreaIndexDisplayAreaSettings](#)
 - [Complex Type: VmsStatusMessageIndexVmsMessage](#)
 - [Complex Type: VmsTypeEnum](#)
 - [Complex Type: WorkingStatusEnum](#)
 - [Simple Type: ColourEnum](#)
 - [Simple Type: CompositePictogramEnum](#)
 - [Simple Type: DedicatedUsageEnum](#)
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 - [Simple Type: PictogramEnum](#)
 - [Simple Type: PositionXAbsoluteEnum](#)
 - [Simple Type: PositionXRelativeEnum](#)
 - [Simple Type: PositionYAbsoluteEnum](#)
 - [Simple Type: PositionYRelativeEnum](#)
 - [Simple Type: SettingReasonEnum](#)
 - [Simple Type: SupplementalPictogramEnum](#)
 - [Simple Type: UnitOfMeasureEnum](#)
 - [Simple Type: VmsControllerFaultEnum](#)
 - [Simple Type: VmsFaultEnum](#)
 - [Simple Type: VmsTypeEnum](#)
 - [Simple Type: WorkingStatusEnum](#)

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Schema Document Properties

Target Namespace	http://datex2.eu/schema/3/vms
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
vms	http://datex2.eu/schema/3/vms

Schema Component Representation

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

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Global Definitions

Complex Type: CompositePictogram

Super-types:	Pictogram < CompositePictogram (by extension)
Sub-types:	None

Name	CompositePictogram
Abstract	no
Documentation	A composite pictogram representing a diagrammatic schema in association with an embedded regular sign.

XML Instance Representation

```
<...>
  <vms:customPictogramCode> com:String </vms:customPictogramCode> [0..1] ?
  <vms:additionalDescription> com:MultilingualString </vms:additionalDescription> [0..1] ?
  <vms:pictogramFlashing> com:Boolean </vms:pictogramFlashing> [0..1] ?
  <vms:pictogramInInverseColour> com:Boolean </vms:pictogramInInverseColour> [0..1] ?
  <vms:viennaConventionCompliant> com:Boolean </vms:viennaConventionCompliant> [0..1] ?
  <vms:pictogramInformationType> vms:InformationTypeEnum </vms:pictogramInformationType> [0..1] ?
  <vms:gddStructure> vms:GddStructure </vms:gddStructure> [0..1]
  <vms:pictogramExtension> com:ExtensionType </vms:pictogramExtension> [0..1]
  <vms:pictogramDescription> vms:CompositePictogramEnum </vms:pictogramDescription> [1] ?
  <vms:regularPictogram> vms:RegularPictogram </vms:regularPictogram> [1]
  <vms:_compositePictogramExtension> com:ExtensionType </vms:_compositePictogramExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="CompositePictogram">
  <xs:complexContent>
    <xs:extension base="vms:Pictogram">
      <xs:sequence>
        <xs:element name="pictogramDescription" type="vms:CompositePictogramEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="regularPictogram" type="vms:RegularPictogram"/>
        <xs:element name="_compositePictogramExtension" type="com:ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: DisplayArea

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

Name	DisplayArea
Abstract	no
Documentation	Configuration (static or dynamic) of a display area.

XML Instance Representation

```
<...>
  <vms:sequencingCapable> com:Boolean </vms:sequencingCapable> [0..1] ?
  <vms:maximumNumberOfSequentialPages> com:NonNegativeInteger </vms:maximumNumberOfSequentialPages> [0..1] ?
  ...
</...>
```

```
</vms:positionXAbsolute> vms:_PositionXAbsoluteEnum </vms:positionXAbsolute> [0..1] ?  
</vms:positionXRelativeToPrevious> vms:_PositionXRelativeToPreviousEnum </vms:positionXRelativeToPrevious> [0..1] ?  
</vms:positionYAbsolute> vms:_PositionYAbsoluteEnum </vms:positionYAbsolute> [0..1] ?  
</vms:positionYRelativeToPrevious> vms:_PositionYRelativeToPreviousEnum </vms:positionYRelativeToPrevious> [0..1] ?  
</vms:displayGeometry> vms:DisplayGeometry </vms:displayGeometry> [0..1]  
</vms:overriddenLaneAssociation> loc:Lane </vms:overriddenLaneAssociation> [0..*] ?  
</vms:_displayAreaExtension> com:_ExtensionType </vms:_displayAreaExtension> [0..1]  
</...>
```

Schema Component Representation

```
<xs:complexType name="DisplayArea">  
  <xs:sequence>  
    <xs:element name="sequencingCapable" type="com:Boolean" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="maxNumberOfSequentialPages" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="positionXAbsolute" type="vms:_PositionXAbsoluteEnum" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="positionXRelativeToPrevious" type="vms:_PositionXRelativeToPreviousEnum" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="positionYAbsolute" type="vms:_PositionYAbsoluteEnum" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="positionYRelativeToPrevious" type="vms:_PositionYRelativeToPreviousEnum" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="displayGeometry" type="vms:DisplayGeometry" minOccurs="0"/>  
    <xs:element name="overriddenLaneAssociation" type="loc:Lane" minOccurs="0" maxOccurs="unbounded"/>  
    <xs:element name="_displayAreaExtension" type="com:_ExtensionType" minOccurs="0"/>  
  </xs:sequence>  
</xs:complexType>
```

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Complex Type: DisplayAreaSettings

Super-types:	None
Sub-types:	<ul style="list-style-type: none">• MultiPageDisplay (by extension)• PictogramDisplay (by extension)• SupplementaryInformationDisplay (by extension)<ul style="list-style-type: none">◦ SupplementaryPictogram (by extension)◦ SupplementaryText (by extension)• TextDisplay (by extension)
Name	DisplayAreaSettings
Abstract	yes
Documentation	A display of pictograms or text on one area on a VMS.

XML Instance Representation

```
<...>  
<vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?  
<vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?  
<vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?  
<vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]  
</...>
```

Schema Component Representation

```
<xs:complexType name="DisplayAreaSettings" abstract="true">  
  <xs:sequence>  
    <xs:element name="isBlank" type="com:Boolean" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="legallyBinding" type="com:Boolean" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="legalBasis" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="_displayAreaSettingsExtension" type="com:_ExtensionType" minOccurs="0"/>  
  </xs:sequence>  
</xs:complexType>
```

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Complex Type: DisplayGeometry

Super-types:	None
Sub-types:	None
Name	DisplayGeometry
Abstract	no
Documentation	Characteristics of the geometry of a display

XML Instance Representation

```
<...>  
<vms:pixelsAcross> com:NonNegativeInteger </vms:pixelsAcross> [0..1] ?  
<vms:pixelsDown> com:NonNegativeInteger </vms:pixelsDown> [0..1] ?  
<vms:displayHeight> com:MetresAsFloat </vms:displayHeight> [0..1] ?  
<vms:displayWidth> com:MetresAsFloat </vms:displayWidth> [0..1] ?  
<vms:positionX> com:MetresAsFloat </vms:positionX> [0..1] ?  
<vms:positionY> com:MetresAsFloat </vms:positionY> [0..1] ?  
<vms:_displayGeometryExtension> com:_ExtensionType </vms:_displayGeometryExtension> [0..1]  
</...>
```

Schema Component Representation

```
<xs:complexType name="DisplayGeometry">  
  <xs:sequence>  
    <xs:element name="pixelsAcross" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="pixelsDown" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="displayHeight" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="displayWidth" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="positionX" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>  
    <xs:element name="positionY" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>  
  </xs:sequence>  
</xs:complexType>
```



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

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Complex Type: DisplayedNumericalInformation

Super-types: None
Sub-types: None

Name DisplayedNumericalInformation
Abstract no
Documentation Numerical information displayed on a sign

XML Instance Representation

```
<...>
  <vms:numericalInformationType> vms:_DisplayedNumericalInformationTypeEnum </vms:numericalInformationType> [1] ?
  <vms:numericValue> com:Decimal </vms:numericValue> [1] ?
  <vms:unitOfMeasure> vms:_UnitOfMeasureEnum </vms:unitOfMeasure> [1] ?
  <vms:_displayedNumericalInformationExtension> com:_ExtensionType </vms:_displayedNumericalInformationExtension>
  [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DisplayedNumericalInformation">
  <xs:sequence>
    <xs:element name="numericalInformationType" type="vms:_DisplayedNumericalInformationTypeEnum" minOccurs="1"
      maxOccurs="1"/>
    <xs:element name="numericValue" type="com:Decimal" minOccurs="1" maxOccurs="1"/>
    <xs:element name="unitOfMeasure" type="vms:_UnitOfMeasureEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_displayedNumericalInformationExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: GddPictogramAttributes

Super-types: None
Sub-types: None

Name GddPictogramAttributes
Abstract no
Documentation ISO 14823 Graphic Data Dictionary attributes with textual or numeric data to supplement a pictogram identification.

XML Instance Representation

```
<...>
  <vms:attributes> com:Base64Binary </vms:attributes> [1] ?
  <vms:_gddPictogramAttributesExtension> com:_ExtensionType </vms:_gddPictogramAttributesExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GddPictogramAttributes">
  <xs:sequence>
    <xs:element name="attributes" type="com:Base64Binary" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_gddPictogramAttributesExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: GddPictogramIdentification

Super-types: None
Sub-types: None

Name GddPictogramIdentification
Abstract no
Documentation Group of codes that uniquely identifies a kind of pictogram, according to the ISO 14823 Graphic Data Dictionary

XML Instance Representation

```
<...>
  <vms:country> com:CountryCode </vms:country> [1] ?
  <vms:serviceCategory> vms:_GddServiceCategoryEnum </vms:serviceCategory> [1] ?
  <vms:pictogramCategoryCode> vms:GddPictogramCategoryCode </vms:pictogramCategoryCode> [1] ?
  <vms:_gddPictogramIdentificationExtension> com:_ExtensionType </vms:_gddPictogramIdentificationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GddPictogramIdentification">
  <xs:sequence>
    <xs:element name="country" type="com:CountryCode" minOccurs="1" maxOccurs="1"/>

```

```

<xs:element name="serviceCategory" type="vms:_GddServiceCategoryEnum" minOccurs="1" maxOccurs="1"/>
<xs:element name="pictogramCategoryCode" type="vms:_GddPictogramCategoryCode" minOccurs="1" maxOccurs="1"/>
<xs:element name="_gddPictogramIdentificationExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

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Complex Type: GddStructure

Super-types: None

Sub-types: None

Name GddStructure

Abstract no

Documentation Graphic Data Dictionary structure, to identify a pictogram by code and optional supplementary attributes

XML Instance Representation

```

<...>
  <vms:gddPictogramIdentification> vms:_GddPictogramIdentification </vms:gddPictogramIdentification> [1]
  <vms:gddPictogramAttributes> vms:_GddPictogramAttributes </vms:gddPictogramAttributes> [0..1]
  <vms:_gddStructureExtension> com:_ExtensionType </vms:_gddStructureExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="GddStructure">
  <xs:sequence>
    <xs:element name="gddPictogramIdentification" type="vms:_GddPictogramIdentification"/>
    <xs:element name="gddPictogramAttributes" type="vms:_GddPictogramAttributes" minOccurs="0"/>
    <xs:element name="_gddStructureExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

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Complex Type: Image

Super-types: None

Sub-types: None

Name Image

Abstract no

Documentation An image, with encoded data and identification of format

XML Instance Representation

```

<...>
  <vms:imageData> com:_Base64Binary </vms:imageData> [1] ?
  <vms:imageFormat> vms:_ImageFormatEnum </vms:imageFormat> [1] ?
  <vms:_imageExtension> com:_ExtensionType </vms:_imageExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="Image">
  <xs:sequence>
    <xs:element name="imageData" type="com:_Base64Binary" minOccurs="1" maxOccurs="1"/>
    <xs:element name="imageFormat" type="vms:_ImageFormatEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="_imageExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

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Complex Type: ManagedLogicalLocation

Super-types: None

Sub-types: None

Name ManagedLogicalLocation

Abstract no

Documentation The logical location (e.g. a car park, a section of road, a junction etc.) which a VMS contributes to the management of.

XML Instance Representation

```

<...>
  <vms:managedLogicalLocation> com:_MultilingualString </vms:managedLogicalLocation> [0..1] ?
  <vms:distanceFromLogicalLocation> com:_MetresAsNonNegativeInteger </vms:distanceFromLogicalLocation> [0..1] ?
  <vms:managedLocation> loc:_Location </vms:managedLocation> [0..1] ?
  <vms:_managedLogicalLocationExtension> com:_ExtensionType </vms:_managedLogicalLocationExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="ManagedLogicalLocation">
  <xs:sequence>
    <xs:element name="managedLogicalLocation" type="com:_MultilingualString" minOccurs="0" maxOccurs="1"/>

```

```

<xs:element name="distanceFromLogicalLocation" type="com:MetresAsNonNegativeInteger" minOccurs="0"
maxOccurs="1"/>
<xs:element name="managedLocation" type="log:Location" minOccurs="0"/>
<xs:element name="_managedLogicalLocationExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: MultiPageDisplay

Super-types: [DisplayAreaSettings](#) < MultiPageDisplay (by extension)
Sub-types: None

Name MultiPageDisplay
Abstract no
Documentation A display of multiple pages, sequentially displayed in order of their "pageNumber".

XML Instance Representation

```

<...>
<vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
<vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
<vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
<vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
<vms:sequenceGroupNumber> com:NonNegativeInteger </vms:sequenceGroupNumber> [0..1] ?
<vms:displayAreaSettings> vms:_MultiPageDisplayPageNumberDisplayAreaSettings </vms:displayAreaSettings> [0..*]
<vms:_multiPageDisplayExtension> com:_ExtensionType </vms:_multiPageDisplayExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="MultiPageDisplay">
  <xs:complexContent>
    <xs:extension base="vms:DisplayAreaSettings">
      <xs:sequence>
        <xs:element name="sequenceGroupNumber" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
        <xs:element name="displayAreaSettings" type="vms:_MultiPageDisplayPageNumberDisplayAreaSettings"
minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="_multiPageDisplayExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: Pictogram

Super-types: None
Sub-types:

- [CompositePictogram](#) (by extension)
- [RegularPictogram](#) (by extension)

Name Pictogram
Abstract yes
Documentation A main pictogram displayable on the VMS panel. Note a main pictogram may have an associated supplementary panel which may itself contain a further pictogram and line of text.

XML Instance Representation

```

<...>
<vms:customPictogramCode> com:String </vms:customPictogramCode> [0..1] ?
<vms:additionalDescription> com:MultilingualString </vms:additionalDescription> [0..1] ?
<vms:pictogramFlashing> com:Boolean </vms:pictogramFlashing> [0..1] ?
<vms:pictogramInInverseColour> com:Boolean </vms:pictogramInInverseColour> [0..1] ?
<vms:viennaConventionCompliant> com:Boolean </vms:viennaConventionCompliant> [0..1] ?
<vms:pictogramInformationType> vms:_InformationTypeEnum </vms:pictogramInformationType> [0..1] ?
<vms:gddStructure> vms:GddStructure </vms:gddStructure> [0..1]
<vms:_pictogramExtension> com:_ExtensionType </vms:_pictogramExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="Pictogram" abstract="true">
  <xs:sequence>
    <xs:element name="customPictogramCode" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="additionalDescription" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="pictogramFlashing" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="pictogramInInverseColour" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="viennaConventionCompliant" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="pictogramInformationType" type="vms:_InformationTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="gddStructure" type="vms:GddStructure" minOccurs="0"/>
    <xs:element name="_pictogramExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: PictogramDisplay

Super-types: [DisplayAreaSettings](#) < PictogramDisplay (by extension)

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

Name	PictogramDisplay
Abstract	no
Documentation	A display of a pictogram on one area on a VMS, potentially with associated supplemental information or instructions.

XML Instance Representation

<pre><...> <vms:isBlank> <u>com:Boolean</u> </vms:isBlank> [0..1] ? <vms:legallyBinding> <u>com:Boolean</u> </vms:legallyBinding> [0..1] ? <vms:legalBasis> <u>com:MultilingualString</u> </vms:legalBasis> [0..1] ? <vms:_displayAreaSettingsExtension> <u>com:_ExtensionType</u> </vms:_displayAreaSettingsExtension> [0..1] <vms:isPrimaryPictogram> <u>com:Boolean</u> </vms:isPrimaryPictogram> [0..1] ? <vms:pictogramDisplayUrl> <u>com:Url</u> </vms:pictogramDisplayUrl> [0..1] ? <vms:pictogram> <u>vms:Pictogram</u> </vms:pictogram> [1] <vms:supplementaryInformationDisplay> <u>vms:SupplementaryInformationDisplay</u> </vms:supplementaryInformationDisplay> [0..1] <vms:image> <u>vms:Image</u> </vms:image> [0..1] <vms:_pictogramDisplayExtension> <u>com:_ExtensionType</u> </vms:_pictogramDisplayExtension> [0..1] </...></pre>	
---	--

Schema Component Representation

<pre><xs:complexType name="PictogramDisplay"> <xs:complexContent> <xs:extension base="vms:DisplayAreaSettings"> <xs:sequence> <xs:element name="isPrimaryPictogram" type="com:Boolean" minOccurs="0" maxOccurs="1"/> <xs:element name="pictogramDisplayUrl" type="com:Url" minOccurs="0" maxOccurs="1"/> <xs:element name="pictogram" type="vms:Pictogram"/> <xs:element name="supplementaryInformationDisplay" type="vms:SupplementaryInformationDisplay" minOccurs="0"/> <xs:element name="image" type="vms:Image" minOccurs="0"/> <xs:element name="_pictogramDisplayExtension" type="com:_ExtensionType" minOccurs="0"/> </xs:sequence> </xs:extension> </xs:complexContent> </xs:complexType></pre>	
--	--

[top](#)

Complex Type: PictogramDisplayArea

Super-types:	DisplayArea < PictogramDisplayArea (by extension)
Sub-types:	None

Name	PictogramDisplayArea
Abstract	no
Documentation	Characteristics specific to a pictogram display area on the VMS.

XML Instance Representation

<pre><...> <vms:sequencingCapable> <u>com:Boolean</u> </vms:sequencingCapable> [0..1] ? <vms:maxNumberOfSequentialPages> <u>com:NonNegativeInteger</u> </vms:maxNumberOfSequentialPages> [0..1] ? <vms:positionXAbsolute> <u>vms:_PositionXAbsoluteEnum</u> </vms:positionXAbsolute> [0..1] ? <vms:positionXRelativeToPrevious> <u>vms:_PositionXRelativeEnum</u> </vms:positionXRelativeToPrevious> [0..1] ? <vms:positionYAbsolute> <u>vms:_PositionYAbsoluteEnum</u> </vms:positionYAbsolute> [0..1] ? <vms:positionYRelativeToPrevious> <u>vms:_PositionYRelativeEnum</u> </vms:positionYRelativeToPrevious> [0..1] ? <vms:displayGeometry> <u>vms:DisplayGeometry</u> </vms:displayGeometry> [0..1] <vms:overriddenLaneAssociation> <u>loc:Lane</u> </vms:overriddenLaneAssociation> [0..*] ? <vms:_displayAreaExtension> <u>com:_ExtensionType</u> </vms:_displayAreaExtension> [0..1] <vms:pictogramCodeListIdentifier> <u>com:String</u> </vms:pictogramCodeListIdentifier> [0..1] ? <vms:pictogramNumberOfColours> <u>com:NonNegativeInteger</u> </vms:pictogramNumberOfColours> [0..1] ? <vms:_pictogramDisplayAreaExtension> <u>com:_ExtensionType</u> </vms:_pictogramDisplayAreaExtension> [0..1] </...></pre>	
---	--

Schema Component Representation

<pre><xs:complexType name="PictogramDisplayArea"> <xs:complexContent> <xs:extension base="vms:DisplayArea"> <xs:sequence> <xs:element name="pictogramCodeListIdentifier" type="com:String" minOccurs="0" maxOccurs="1"/> <xs:element name="pictogramNumberOfColours" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/> <xs:element name="_pictogramDisplayAreaExtension" type="com:_ExtensionType" minOccurs="0"/> </xs:sequence> </xs:extension> </xs:complexContent> </xs:complexType></pre>	
--	--

[top](#)

Complex Type: RegularPictogram

Super-types:	Pictogram < RegularPictogram (by extension)
Sub-types:	None

Name	RegularPictogram
Abstract	no
Documentation	A regular pictogram displayable on a VMS panel.

XML Instance Representation

```
<...>
<vms:customPictogramCode> com:String </vms:customPictogramCode> [0..1] ?
<vms:additionalDescription> com:MultilingualString </vms:additionalDescription> [0..1] ?
<vms:pictogramFlashing> com:Boolean </vms:pictogramFlashing> [0..1] ?
<vms:pictogramInInverseColour> com:Boolean </vms:pictogramInInverseColour> [0..1] ?
<vms:viennaConventionCompliant> com:Boolean </vms:viennaConventionCompliant> [0..1] ?
<vms:pictogramInformationType> vms:_InformationTypeEnum </vms:pictogramInformationType> [0..1] ?
<vms:gddStructure> vms:GddStructure </vms:gddStructure> [0..1]
<vms:_pictogramExtension> com:_ExtensionType </vms:_pictogramExtension> [0..1]
<vms:pictogramDescription> vms:_PictogramEnum </vms:pictogramDescription> [0..*] ?
<vms:presenceOfRedTriangle> com:Boolean </vms:presenceOfRedTriangle> [0..1] ?
<vms:displayedNumericalInformation> vms:DisplayedNumericalInformation </vms:displayedNumericalInformation> [0..2]
<vms:_regularPictogramExtension> com:_ExtensionType </vms:_regularPictogramExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RegularPictogram">
  <xs:complexContent>
    <xs:extension base="vms:Pictogram">
      <xs:sequence>
        <xs:element name="pictogramDescription" type="vms:_PictogramEnum" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="presenceOfRedTriangle" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
        <xs:element name="displayedNumericalInformation" type="vms:DisplayedNumericalInformation" minOccurs="0" maxOccurs="2"/>
        <xs:element name="_regularPictogramExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: SupplementaryInformationDisplay

Super-types: [DisplayAreaSettings](#) < SupplementaryInformationDisplay (by extension)

Sub-types:

- [SupplementaryPictogram](#) (by extension)
- [SupplementaryText](#) (by extension)

Name	SupplementaryInformationDisplay
Abstract	yes
Documentation	A display of information or a regulatory instruction which is supplemental to the associated pictogram, comprising either an additional line of text or a pictogram or both.

XML Instance Representation

```
<...>
<vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
<vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
<vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
<vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
<vms:_supplementaryInformationDisplayExtension> com:_ExtensionType
</vms:_supplementaryInformationDisplayExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SupplementaryInformationDisplay" abstract="true">
  <xs:complexContent>
    <xs:extension base="vms:DisplayAreaSettings">
      <xs:sequence>
        <xs:element name="_supplementaryInformationDisplayExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: SupplementaryPanelArea

Super-types: [DisplayArea](#) < SupplementaryPanelArea (by extension)

Sub-types: None

Name	SupplementaryPanelArea
Abstract	no
Documentation	Characteristics of a panel which can display details (sometimes regulatory in nature) that are supplementary to one pictogram, comprising an additional line of text or another pictogram.

XML Instance Representation

```
<...>
<vms:sequencingCapable> com:Boolean </vms:sequencingCapable> [0..1] ?
<vms:maximumNumberOfSequentialPages> com:NonNegativeInteger </vms:maximumNumberOfSequentialPages> [0..1] ?
<vms:positionXAbsolute> vms:_PositionXAbsoluteEnum </vms:positionXAbsolute> [0..1] ?
<vms:positionXRelativeToPrevious> vms:_PositionXRelativeEnum </vms:positionXRelativeToPrevious> [0..1] ?
<vms:positionYAbsolute> vms:_PositionYAbsoluteEnum </vms:positionYAbsolute> [0..1] ?
<vms:positionYRelativeToPrevious> vms:_PositionYRelativeEnum </vms:positionYRelativeToPrevious> [0..1] ?
<vms:displayGeometry> vms:DisplayGeometry </vms:displayGeometry> [0..1]
<vms:overriddenLaneAssociation> loc:Lane </vms:overriddenLaneAssociation> [0..*] ?
<vms:_displayAreaExtension> com:_ExtensionType </vms:_displayAreaExtension> [0..1]
<vms:_supplementaryPictogramCodeListIdentifier> com:String </vms:_supplementaryPictogramCodeListIdentifier> [0..1] ?
</...>
```

```

<vms:relatedPictogramArea> com:Integer </vms:relatedPictogramArea> [0..1] ?
<vms:_supplementaryPanelAreaExtension> com:_ExtensionType </vms:_supplementaryPanelAreaExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="SupplementaryPanelArea">
  <xs:complexContent>
    <xs:extension base="vms:DisplayArea">
      <xs:sequence>
        <xs:element name="supplementaryPictogramCodeListIdentifier" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="relatedPictogramArea" type="com:Integer" minOccurs="0" maxOccurs="1"/>
        <xs:element name="_supplementaryPanelAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: SupplementaryPictogram

Super-types: [DisplayAreaSettings](#) < [SupplementaryInformationDisplay](#) (by extension) < **SupplementaryPictogram** (by extension)

Sub-types: None

Name SupplementaryPictogram

Abstract no

Documentation An additional pictogram that is displayed in the panel which is supplemental to the associated pictogram display.

XML Instance Representation

```

<...>
<vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
<vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
<vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
<vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
<vms:_supplementaryInformationDisplayExtension> com:_ExtensionType
</vms:_supplementaryInformationDisplayExtension> [0..1]
<vms:pictogramDescription> vms:_SupplementalPictogramEnum </vms:pictogramDescription> [0..1] ?
<vms:pictogramCode> com:String </vms:pictogramCode> [0..1] ?
<vms:pictogramUrl> com:Url </vms:pictogramUrl> [0..1] ?
<vms:additionalDescription> com:MultilingualString </vms:additionalDescription> [0..1] ?
<vms:pictogramFlashing> com:Boolean </vms:pictogramFlashing> [0..1] ?
<vms:pictogramInformationType> vms:_InformationTypeEnum </vms:pictogramInformationType> [0..1] ?
<vms:_supplementaryPictogramExtension> com:_ExtensionType </vms:_supplementaryPictogramExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="SupplementaryPictogram">
  <xs:complexContent>
    <xs:extension base="vms:SupplementaryInformationDisplay">
      <xs:sequence>
        <xs:element name="pictogramDescription" type="vms:_SupplementalPictogramEnum" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pictogramCode" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pictogramUrl" type="com:Url" minOccurs="0" maxOccurs="1"/>
        <xs:element name="additionalDescription" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pictogramFlashing" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
        <xs:element name="pictogramInformationType" type="vms:_InformationTypeEnum" minOccurs="0" maxOccurs="1"/>
        <xs:element name="_supplementaryPictogramExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: SupplementaryText

Super-types: [DisplayAreaSettings](#) < [SupplementaryInformationDisplay](#) (by extension) < **SupplementaryText** (by extension)

Sub-types: None

Name SupplementaryText

Abstract no

Documentation Text used in a supplementary display associated with a pictogram

XML Instance Representation

```

<...>
<vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
<vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
<vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
<vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
<vms:_supplementaryInformationDisplayExtension> com:_ExtensionType
</vms:_supplementaryInformationDisplayExtension> [0..1]
<vms:textLine> vms:TextLine </vms:textLine> [1] ?
<vms:_supplementaryTextExtension> com:_ExtensionType </vms:_supplementaryTextExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="SupplementaryText">
  <xs:complexContent>
    <xs:extension base="vms:SupplementaryInformationDisplay">

```

```

<xs:sequence>
  <xs:element name="textLine" type="vms:TextLine"/>
  <xs:element name="_supplementaryTextExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: TextDisplay

Super-types: [DisplayAreaSettings](#) < TextDisplay (by extension)

Sub-types: None

Name TextDisplay
Abstract no
Documentation A page of text (comprising one or more ordered lines) that are displayed simultaneously on the VMS.

XML Instance Representation

```

<...>
  <vms:isBlank> com:Boolean </vms:isBlank> [0..1] ?
  <vms:legallyBinding> com:Boolean </vms:legallyBinding> [0..1] ?
  <vms:legalBasis> com:MultilingualString </vms:legalBasis> [0..1] ?
  <vms:_displayAreaSettingsExtension> com:_ExtensionType </vms:_displayAreaSettingsExtension> [0..1]
  <vms:textCode> com:String </vms:textCode> [0..1] ?
  <vms:textImageUrl> com:Url </vms:textImageUrl> [0..1] ?
  <vms:textLine> vms:_TextDisplayLineIndexTextLine </vms:textLine> [0..*]
  <vms:_textDisplayExtension> com:_ExtensionType </vms:_textDisplayExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="TextDisplay">
  <xs:complexContent>
    <xs:extension base="vms:DisplayAreaSettings">
      <xs:sequence>
        <xs:element name="textCode" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="textImageUrl" type="com:Url" minOccurs="0" maxOccurs="1"/>
        <xs:element name="textLine" type="vms:_TextDisplayLineIndexTextLine" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="_textDisplayExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: TextDisplayArea

Super-types: [DisplayArea](#) < TextDisplayArea (by extension)

Sub-types: None

Name TextDisplayArea
Abstract no
Documentation Characteristics specific to the textual display area on the VMS.

XML Instance Representation

```

<...>
  <vms:sequencingCapable> com:Boolean </vms:sequencingCapable> [0..1] ?
  <vms:maxNumberOfSequentialPages> com:NonNegativeInteger </vms:maxNumberOfSequentialPages> [0..1] ?
  <vms:positionXAbsolute> vms:_PositionXAbsoluteEnum </vms:positionXAbsolute> [0..1] ?
  <vms:positionXRelativeToPrevious> vms:_PositionXRelativeEnum </vms:positionXRelativeToPrevious> [0..1] ?
  <vms:positionYAbsolute> vms:_PositionYAbsoluteEnum </vms:positionYAbsolute> [0..1] ?
  <vms:positionYRelativeToPrevious> vms:_PositionYRelativeEnum </vms:positionYRelativeToPrevious> [0..1] ?
  <vms:displayGeometry> vms:DisplayGeometry </vms:displayGeometry> [0..1]
  <vms:overriddenLaneAssociation> loc:Lane </vms:overriddenLaneAssociation> [0..*] ?
  <vms:_displayAreaExtension> com:_ExtensionType </vms:_displayAreaExtension> [0..1]
  <vms:proportionalFont> com:Boolean </vms:proportionalFont> [0..1] ?
  <vms:maxNumberOfCharacters> com:NonNegativeInteger </vms:maxNumberOfCharacters> [0..1] ?
  <vms:maxNumberOfRows> com:NonNegativeInteger </vms:maxNumberOfRows> [0..1] ?
  <vms:textCodeListIdentifier> com:String </vms:textCodeListIdentifier> [0..1] ?
  <vms:maxFontHeight> com:NonNegativeInteger </vms:maxFontHeight> [0..1] ?
  <vms:minFontHeight> com:NonNegativeInteger </vms:minFontHeight> [0..1] ?
  <vms:maxFontWidth> com:NonNegativeInteger </vms:maxFontWidth> [0..1] ?
  <vms:minFontWidth> com:NonNegativeInteger </vms:minFontWidth> [0..1] ?
  <vms:maxFontSpacing> com:NonNegativeInteger </vms:maxFontSpacing> [0..1] ?
  <vms:minFontSpacing> com:NonNegativeInteger </vms:minFontSpacing> [0..1] ?
  <vms:_textDisplayAreaExtension> com:_ExtensionType </vms:_textDisplayAreaExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="TextDisplayArea">
  <xs:complexContent>
    <xs:extension base="vms:DisplayArea">
      <xs:sequence>
        <xs:element name="proportionalFont" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
        <xs:element name="maxNumberOfCharacters" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
        <xs:element name="maxNumberOfRows" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
        <xs:element name="textCodeListIdentifier" type="com:String" minOccurs="0" maxOccurs="1"/>
        <xs:element name="maxFontHeight" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>

```



```

<xs:element name="minFontHeight" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
<xs:element name="maxFontWidth" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
<xs:element name="minFontWidth" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
<xs:element name="maxFontSpacing" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
<xs:element name="minFontSpacing" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
<xs:element name="_textDisplayAreaExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: TextLine

Super-types: None

Sub-types: None

Name TextLine

Abstract no

Documentation A single line of text displayed on a text display area or supplementary panel or corresponding to a displayed text. It may correspond to the entire text in the case that text segmentation in lines is not available.

XML Instance Representation

```

<...
  lineLanguage="com:Language" [0..1] ?">
  <vms:textLine> com:String </vms:textLine> [1] ?
  <vms:lineColour> vms:_ColourEnum </vms:lineColour> [0..1] ?
  <vms:lineFlashing> com:Boolean </vms:lineFlashing> [0..1] ?
  <vms:lineHtml> com:String </vms:lineHtml> [0..1] ?
  <vms:isExactTextOnSign> com:Boolean </vms:isExactTextOnSign> [0..1] ?
  <vms:textInformationType> vms:_InformationTypeEnum </vms:textInformationType> [0..*] ?
  <vms:_textLineExtension> com:_ExtensionType </vms:_textLineExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="TextLine">
  <xs:sequence>
    <xs:element name="textLine" type="com:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="lineColour" type="vms:_ColourEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="lineFlashing" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="lineHtml" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="isExactTextOnSign" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="textInformationType" type="vms:_InformationTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_textLineExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="lineLanguage" type="com:Language" use="optional"/>
</xs:complexType>

```

[top](#)

Complex Type: Vms

Super-types: None

Sub-types: None

Name Vms

Abstract no

Documentation Variable message sign - a display panel used to display one or more messages (text, symbols, pictograms or combinations) that can be changed or switched on or off as required

XML Instance Representation

```

<...>
  <vms:lanternsPresent> com:Boolean </vms:lanternsPresent> [0..1] ?
  <vms:description> com:MultilingualString </vms:description> [0..1] ?
  <vms:owner> com:MultilingualString </vms:owner> [0..1] ?
  <vms:physicalSupport> vms:_PhysicalSupportEnum </vms:physicalSupport> [0..1] ?
  <vms:vmsType> vms:_VmsTypeEnum </vms:vmsType> [0..1] ?
  <vms:vmsTypeCode> com:String </vms:vmsTypeCode> [0..1] ?
  <vms:dynamicallyConfigurable> com:Boolean </vms:dynamicallyConfigurable> [0..1] ?
  <vms:displayHeight> com:MetresAsFloat </vms:displayHeight> [0..1] ?
  <vms:displayWidth> com:MetresAsFloat </vms:displayWidth> [0..1] ?
  <vms:heightAboveCarriageway> com:MetresAsFloat </vms:heightAboveCarriageway> [0..1] ?
  <vms:dedicatedUsage> vms:_DedicatedUsageEnum </vms:dedicatedUsage> [0..1] ?
  <vms:vmsConfiguration> vms:VmsConfiguration </vms:vmsConfiguration> [1]
  <vms:vmsLocation> loc:Location </vms:vmsLocation> [0..1] ?
  <vms:managedLogicalLocation> vms:ManagedLogicalLocation </vms:managedLogicalLocation> [0..1] ?
  <vms:imageLink> com:UriLink </vms:imageLink> [0..1] ?
  <vms:_vmsExtension> com:_ExtensionType </vms:_vmsExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="Vms">
  <xs:sequence>
    <xs:element name="lanternsPresent" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="description" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="owner" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="physicalSupport" type="vms:_PhysicalSupportEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="vmsType" type="vms:_VmsTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="vmsTypeCode" type="com:String" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>

```



```

<xs:element name="dynamicallyConfigurable" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
<xs:element name="displayHeight" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
<xs:element name="displayWidth" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
<xs:element name="heightAboveCarriageway" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
<xs:element name="dedicatedUsage" type="vms:DedicatedUsageEnum" minOccurs="0" maxOccurs="1"/>
<xs:element name="vmsConfiguration" type="vms:VmsConfiguration"/>
<xs:element name="vmsLocation" type="loc:Location" minOccurs="0"/>
<xs:element name="managedLogicalLocation" type="vms:ManagedLogicalLocation" minOccurs="0"/>
<xs:element name="imageLink" type="com:UriLink" minOccurs="0"/>
<xs:element name="_vmsExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: VmsConfiguration

Super-types: None
Sub-types: None

Name VmsConfiguration
Abstract no
Documentation Describes the current configuration and characteristics of a VMS, whether it is statically or dynamically configured.

XML Instance Representation

```

<...>
  <vms:numberOfDisplayAreas> com:NonNegativeInteger </vms:numberOfDisplayAreas> [0..1] ?
  <vms:displayArea> vms:VmsConfigurationDisplayAreaIndexDisplayArea </vms:displayArea> [0..*]
  <vms:_vmsConfigurationExtension> com:_ExtensionType </vms:_vmsConfigurationExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="VmsConfiguration">
  <xs:sequence>
    <xs:element name="numberOfDisplayAreas" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="displayArea" type="vms:VmsConfigurationDisplayAreaIndexDisplayArea" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_vmsConfigurationExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: VmsController

Super-types: None
Sub-types: None

Name VmsController
Abstract no
Documentation A roadside unit which can control one or more variable message signs on a single gantry or mounting or on closely associated gantries or mountings.

XML Instance Representation

```

<...
  id="xs:string [1]"
  version="xs:string [1]">
  <vms:numberOfVms> com:NonNegativeInteger </vms:numberOfVms> [0..1] ?
  <vms:externalIdentifier> com:String </vms:externalIdentifier> [0..1] ?
  <vms:ipAddress> com:String </vms:ipAddress> [0..1] ?
  <vms:electronicAddress> com:String </vms:electronicAddress> [0..1] ?
  <vms:vms> vms:VmsControllerVmsIndexVms </vms:vms> [0..*]
  <vms:_vmsControllerExtension> com:_ExtensionType </vms:_vmsControllerExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="VmsController">
  <xs:sequence>
    <xs:element name="numberOfVms" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="externalIdentifier" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="ipAddress" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="electronicAddress" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="vms" type="vms:VmsControllerVmsIndexVms" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_vmsControllerExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="id" type="xs:string" use="required"/>
  <xs:attribute name="version" type="xs:string" use="required"/>
</xs:complexType>

```

[top](#)

Complex Type: VmsControllerFault

Super-types: [com:Fault](#) < VmsControllerFault (by extension)
Sub-types: None

Name VmsControllerFault

Abstract

no

Documentation

Details of the fault which is being reported for the specified variable message sign control unit.

XML Instance Representation

```
<...>
  <!-- 'com:Fault' super type was not found in this schema. Some elements and attributes may be missing. -->
  <vms:vmsControllerFault> vms:_VmsControllerFaultEnum </vms:vmsControllerFault> [1] ?
  <vms:_vmsControllerFaultExtension> com:_ExtensionType </vms:_vmsControllerFaultExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsControllerFault">
  <xs:complexContent>
    <xs:extension base="com:Fault">
      <xs:sequence>
        <xs:element name="vmsControllerFault" type="vms:_VmsControllerFaultEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_vmsControllerFaultExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)**Complex Type: VmsControllerStatus****Super-types:** None**Sub-types:** None**Name** VmsControllerStatus**Abstract** no**Documentation** Status of a VMS controller unit**XML Instance Representation**

```
<...>
  <vms:vmsControllerTableReference> vms:_VmsControllerTableVersionedReference </vms:vmsControllerTableReference> [1] ?
  <vms:vmsControllerReference> vms:_VmsControllerVersionedReference </vms:vmsControllerReference> [1] ?
  <vms:statusUpdateTime> com:DateTime </vms:statusUpdateTime> [0..1] ?
  <vms:informationManagerOverride> com:InternationalIdentifier </vms:informationManagerOverride> [0..1] ?
  <vms:vmsStatus> vms:_VmsControllerStatusVmsIndexVmsStatus </vms:vmsStatus> [0..*]
  <vms:vmsControllerFault> vms:VmsControllerFault </vms:vmsControllerFault> [0..*]
  <vms:_vmsControllerStatusExtension> com:_ExtensionType </vms:_vmsControllerStatusExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsControllerStatus">
  <xs:sequence>
    <xs:element name="vmsControllerTableReference" type="vms:_VmsControllerTableVersionedReference" minOccurs="1" maxOccurs="1"/>
    <xs:element name="vmsControllerReference" type="vms:_VmsControllerVersionedReference" minOccurs="1" maxOccurs="1"/>
    <xs:element name="statusUpdateTime" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
    <xs:element name="informationManagerOverride" type="com:InternationalIdentifier" minOccurs="0"/>
    <xs:element name="vmsStatus" type="vms:_VmsControllerStatusVmsIndexVmsStatus" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="vmsControllerFault" type="vms:VmsControllerFault" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_vmsControllerStatusExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

[top](#)**Complex Type: VmsControllerTable****Super-types:** None**Sub-types:** None**Name** VmsControllerTable**Abstract** no**Documentation** A versioned VMS controller unit table comprising a number of data records, each record defining the characteristics of a specific deployed variable message sign controller unit.**XML Instance Representation**

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
  <vms:vmsControllerTableIdentification> com:String </vms:vmsControllerTableIdentification> [0..1] ?
  <vms:informationManager> com:InternationalIdentifier </vms:informationManager> [0..1] ?
  <vms:vmsController> vms:VmsController </vms:vmsController> [1..*]
  <vms:_vmsControllerTableExtension> com:_ExtensionType </vms:_vmsControllerTableExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsControllerTable">
  <xs:sequence>
    <xs:element name="vmsControllerTableIdentification" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="informationManager" type="com:InternationalIdentifier" minOccurs="0"/>
    <xs:element name="vmsController" type="vms:VmsController" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

```

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

```

[top](#)

Complex Type: VmsFault

Super-types: [com:Fault](#) < VmsFault (by extension)

Sub-types: None

Name VmsFault

Abstract no

Documentation Details of the fault which is being reported for the specified variable message sign panel.

XML Instance Representation

```

<...>
  <!-- 'com:Fault' super type was not found in this schema. Some elements and attributes may be missing. -->
  <vms:vmsFault> vms:_VmsFaultEnum </vms:vmsFault> [1] ?
  <vms:_vmsFaultExtension> com:_ExtensionType </vms:_vmsFaultExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="VmsFault">
  <xs:complexContent>
    <xs:extension base="com:Fault">
      <xs:sequence>
        <xs:element name="vmsFault" type="vms:_VmsFaultEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_vmsFaultExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: VmsMessage

Super-types: None

Sub-types: None

Name VmsMessage

Abstract no

Documentation A message displayed on a VMS which can comprise one or more sequentially displayed text pages and/or pictograms with supplementary details.

XML Instance Representation

```

<...>
  <vms:associatedTrafficManagementPlan> com:String </vms:associatedTrafficManagementPlan> [0..1] ?
  <vms:messageSetBy> com:MultilingualString </vms:messageSetBy> [0..1] ?
  <vms:setBySystem> com:Boolean </vms:setBySystem> [0..1] ?
  <vms:reasonForSetting> com:MultilingualString </vms:reasonForSetting> [0..1] ?
  <vms:codedReasonForSetting> vms:_SettingReasonEnum </vms:codedReasonForSetting> [0..1] ?
  <vms:messageInformationType> vms:_MessageInformationTypeEnum </vms:messageInformationType> [0..*] ?
  <vms:primarySetting> com:Boolean </vms:primarySetting> [0..1] ?
  <vms:mareNostrumCompliant> com:Boolean </vms:mareNostrumCompliant> [0..1] ?
  <vms:timeLastSet> com:DateTime </vms:timeLastSet> [1] ?
  <vms:requestedBy> com:MultilingualString </vms:requestedBy> [0..1] ?
  <vms:relatedSituation> vms:_SituationVersionedReference </vms:relatedSituation> [0..*] ?
  <vms:relatedSituationRecord> vms:_SituationRecordVersionedReference </vms:relatedSituationRecord> [0..*] ?
  <vms:distanceFromClosestSituationRecord> com:MetresAsFloat </vms:distanceFromClosestSituationRecord> [0..1] ?
  <vms:sequencingInterval> com:Seconds </vms:sequencingInterval> [0..1] ?
  <vms:displayAreaSettings> vms:_VmsMessageDisplayAreaIndexDisplayAreaSettings </vms:displayAreaSettings> [0..*]
  <vms:image> vms:Image </vms:image> [0..1]
  <vms:_vmsMessageExtension> com:_ExtensionType </vms:_vmsMessageExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="VmsMessage">
  <xs:sequence>
    <xs:element name="associatedTrafficManagementPlan" type="com:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="messageSetBy" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="setBySystem" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="reasonForSetting" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="codedReasonForSetting" type="vms:_SettingReasonEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="messageInformationType" type="vms:_MessageInformationTypeEnum" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="primarySetting" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="mareNostrumCompliant" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="timeLastSet" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="requestedBy" type="com:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="relatedSituation" type="vms:_SituationVersionedReference" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="relatedSituationRecord" type="vms:_SituationRecordVersionedReference" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="distanceFromClosestSituationRecord" type="com:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="sequencingInterval" type="com:Seconds" minOccurs="0" maxOccurs="1"/>
    <xs:element name="displayAreaSettings" type="vms:_VmsMessageDisplayAreaIndexDisplayAreaSettings" minOccurs="0"
maxOccurs="unbounded"/>

```

```

<xs:element name="image" type="vms:Image" minOccurs="0"/>
<xs:element name="_vmsMessageExtension" type="com:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: VmsPublication

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

Sub-types: None

Name VmsPublication

Abstract no

Documentation A publication containing the current status and settings of one or more VMS controller units, each unit controlling one or more individual variable message signs.

XML Instance Representation

```

<...>
<!-- 'com:PayloadPublication' super type was not found in this schema. Some elements and attributes may be missing. -->
<vms:headerInformation> com:HeaderInformation </vms:headerInformation> [1]
<vms:vmsControllerStatus> vms:VmsControllerStatus </vms:vmsControllerStatus> [1..*]
<vms:_vmsPublicationExtension> com:_ExtensionType </vms:_vmsPublicationExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="VmsPublication">
  <xs:complexContent>
    <xs:extension base="com:PayloadPublication">
      <xs:sequence>
        <xs:element name="headerInformation" type="com:HeaderInformation"/>
        <xs:element name="vmsControllerStatus" type="vms:VmsControllerStatus" maxOccurs="unbounded"/>
        <xs:element name="_vmsPublicationExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: VmsStatus

Super-types: None

Sub-types: None

Name VmsStatus

Abstract no

Documentation Provides the current status and settings of the VMS and the currently displayed information.

XML Instance Representation

```

<...>
<vms:flashingLightsOn> com:Boolean </vms:flashingLightsOn> [0..1] ?
<vms:remainingPowerCapacity> com:Seconds </vms:remainingPowerCapacity> [0..1] ?
<vms:statusUpdateTime> com:DateTime </vms:statusUpdateTime> [0..1] ?
<vms:sequencingInterval> com:Seconds </vms:sequencingInterval> [0..1] ?
<vms:workingStatus> vms:_WorkingStatusEnum </vms:workingStatus> [0..1] ?
<vms:vmsDynamicConfiguration> vms:VmsConfiguration </vms:vmsDynamicConfiguration> [0..1]
<vms:vmsMessage> vms:_VmsStatusMessageIndexVmsMessage </vms:vmsMessage> [0..*]
<vms:vmsLocationOverride> loc:Location </vms:vmsLocationOverride> [0..1] ?
<vms:managedLogicalLocationOverride> vms:ManagedLogicalLocation </vms:managedLogicalLocationOverride> [0..1] ?
<vms:vmsFault> vms:VmsFault </vms:vmsFault> [0..*]
<vms:_vmsStatusExtension> com:_ExtensionType </vms:_vmsStatusExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="VmsStatus">
  <xs:sequence>
    <xs:element name="flashingLightsOn" type="com:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="remainingPowerCapacity" type="com:Seconds" minOccurs="0" maxOccurs="1"/>
    <xs:element name="statusUpdateTime" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
    <xs:element name="sequencingInterval" type="com:Seconds" minOccurs="0" maxOccurs="1"/>
    <xs:element name="workingStatus" type="vms:_WorkingStatusEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="vmsDynamicConfiguration" type="vms:VmsConfiguration" minOccurs="0"/>
    <xs:element name="vmsMessage" type="vms:_VmsStatusMessageIndexVmsMessage" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="vmsLocationOverride" type="loc:Location" minOccurs="0"/>
    <xs:element name="managedLogicalLocationOverride" type="vms:ManagedLogicalLocation" minOccurs="0"/>
    <xs:element name="vmsFault" type="vms:VmsFault" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="_vmsStatusExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: VmsTablePublication

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

Sub-types: None

Name	VmsTablePublication
Abstract	no
Documentation	A publication containing one or more VMS controller unit tables each comprising a set of records which hold details of VMS controller units.

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="VmsTablePublication">
  <xs:complexContent>
    <xs:extension base="com:PayloadPublication">
      <xs:sequence>
        <xs:element name="headerInformation" type="com:HeaderInformation"/>
        <xs:element name="vmsControllerTable" type="vms:VmsControllerTable" maxOccurs="unbounded"/>
        <xs:element name="_vmsTablePublicationExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: **_ColourEnum**

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

Name	_ColourEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_CompositePictogramEnum**

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

Name	_CompositePictogramEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_DedicatedUsageEnum**

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

Name	_DedicatedUsageEnum
Abstract	no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_DisplayedNumericalInformationTypeEnum**

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

Sub-types: None

Name **_DisplayedNumericalInformationTypeEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_GddServiceCategoryEnum**

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

Sub-types: None

Name **_GddServiceCategoryEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_ImageFormatEnum**

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

Sub-types: None

Name **_ImageFormatEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

```

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

```

[top](#)

Complex Type: **_InformationTypeEnum**

Super-types: [xs:string](#) < [InformationTypeEnum](#) (by restriction) < [_InformationTypeEnum](#) (by extension)

Sub-types: None

Name [_InformationTypeEnum](#)

Abstract no

XML Instance Representation

```

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

```

Schema Component Representation

```

<xs:complexType name="_InformationTypeEnum">
  <xs:simpleContent>
    <xs:extension base="vms:InformationTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

```

[top](#)

Complex Type: **_MessageInformationTypeEnum**

Super-types: [xs:string](#) < [MessageInformationTypeEnum](#) (by restriction) < [_MessageInformationTypeEnum](#) (by extension)

Sub-types: None

Name [_MessageInformationTypeEnum](#)

Abstract no

XML Instance Representation

```

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

```

Schema Component Representation

```

<xs:complexType name="_MessageInformationTypeEnum">
  <xs:simpleContent>
    <xs:extension base="vms:MessageInformationTypeEnum">
      <xs:attribute name="_extendedValue" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

```

[top](#)

Complex Type: **_MultiPageDisplayPageNumberDisplayAreaSettings**

Super-types: None

Sub-types: None

Name [_MultiPageDisplayPageNumberDisplayAreaSettings](#)

Abstract no

XML Instance Representation

```

<...
  pageNumber="xs:int [1]">
    <vms:displayAreaSettings> vms:DisplayAreaSettings </vms:displayAreaSettings> [1]
  </...>

```

Schema Component Representation

```

<xs:complexType name="_MultiPageDisplayPageNumberDisplayAreaSettings">
  <xs:sequence>
    <xs:element name="displayAreaSettings" type="vms:DisplayAreaSettings" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="pageNumber" type="xs:int" use="required"/>
</xs:complexType>

```

[top](#)

Complex Type: **_PhysicalSupportEnum**

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

Name [_PhysicalSupportEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_PictogramEnum](#)

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

Name [_PictogramEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_PositionXAbsoluteEnum](#)

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

Name [_PositionXAbsoluteEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: [_PositionXRelativeEnum](#)

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

Name [_PositionXRelativeEnum](#)
Abstract no

XML Instance Representation

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



```
    vms:PositionXRelativeEnum
  </...>

```

Schema Component Representation

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

```

[top](#)

Complex Type: **_PositionYAbsoluteEnum**

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

Sub-types: None

Name **_PositionYAbsoluteEnum**

Abstract no

XML Instance Representation

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

```

Schema Component Representation

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

```

[top](#)

Complex Type: **_PositionYRelativeEnum**

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

Sub-types: None

Name **_PositionYRelativeEnum**

Abstract no

XML Instance Representation

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

```

Schema Component Representation

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

```

[top](#)

Complex Type: **_SettingReasonEnum**

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

Sub-types: None

Name **_SettingReasonEnum**

Abstract no

XML Instance Representation

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

```

Schema Component Representation

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

```

Complex Type: [_SituationRecordVersionedReference](#)

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

Name [_SituationRecordVersionedReference](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_SituationRecordVersionedReference">  
  <xs:complexContent>  
    <xs:extension base="com:VersionedReference">  
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="sit:SituationRecord"/>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

Complex Type: [_SituationVersionedReference](#)

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

Name [_SituationVersionedReference](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_SituationVersionedReference">  
  <xs:complexContent>  
    <xs:extension base="com:VersionedReference">  
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="sit:Situation"/>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

Complex Type: [_SupplementalPictogramEnum](#)

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

Name [_SupplementalPictogramEnum](#)
Abstract no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: [_TextDisplayLineIndexTextLine](#)

Super-types: None
Sub-types: None


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

[top](#)

Complex Type: **_VmsControllerStatusVmsIndexVmsStatus**

Super-types: None
Sub-types: None

Name **_VmsControllerStatusVmsIndexVmsStatus**
Abstract no

XML Instance Representation

```
<...
  vmsIndex="xs:int [1]">
    <vms:vmsStatus> vms:VmsStatus </vms:vmsStatus> [1]
  </...>
```

Schema Component Representation

```
<xs:complexType name="_VmsControllerStatusVmsIndexVmsStatus">
  <xs:sequence>
    <xs:element name="vmsStatus" type="vms:VmsStatus" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="vmsIndex" type="xs:int" use="required"/>
</xs:complexType>
```

[top](#)

Complex Type: **_VmsControllerTableVersionedReference**

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

Name **_VmsControllerTableVersionedReference**
Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_VmsControllerTableVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="vms:VmsControllerTable"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: **_VmsControllerVersionedReference**

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

Name **_VmsControllerVersionedReference**
Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_VmsControllerVersionedReference">
  <xs:complexContent>
    <xs:extension base="com:VersionedReference">
      <xs:attribute name="targetClass" type="xs:string" use="required" fixed="vms:VmsController"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: **_VmsControllerVmsIndexVms**

Super-types:	None
Sub-types:	None

Name _VmsControllerVmsIndexVms
Abstract no

XML Instance Representation

```
<...
  vmsIndex="xs:int [1]">
  <vms:vms> vms:Vms </vms:vms> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_VmsControllerVmsIndexVms">
  <xs:sequence>
    <xs:element name="vms" type="vms:Vms" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="vmsIndex" type="xs:int" use="required"/>
</xs:complexType>
```

[top](#)

Complex Type: VmsFaultEnum

Super-types:	<u>xs</u> :string < VmsFaultEnum (by restriction) < <u>VmsFaultEnum</u> (by extension)
Sub-types:	None

Name _VmsFaultEnum
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: VmsMessageDisplayAreaIndexDisplayAreaSettings

Super-types:	None
Sub-types:	None

Name _VmsMessageDisplayAreaIndexDisplayAreaSettings
Abstract no

XML Instance Representation

```
<...
  displayAreaIndex="xs:int [1]">
    <vms:displayAreaSettings> vms:DisplayAreaSettings </vms:displayAreaSettings> [1]
  </...>
```

Schema Component Representation

```
<xs:complexType name="_VmsMessageDisplayAreaIndexDisplayAreaSettings">
  <xs:sequence>
    <xs:element name="displayAreaSettings" type="vms:DisplayAreaSettings" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="displayAreaIndex" type="xs:int" use="required"/>
</xs:complexType>
```

[top](#)

Complex Type: VmsStatusMessageIndexVmsMessage

Super-types:	None
Sub-types:	None

Name _VmsStatusMessageIndexVmsMessage
Abstract no

XML Instance Representation

```
<...
  messageIndex="xs:int [1]">
    <vms:vmsMessage> vms:VmsMessage </vms:vmsMessage> [1]
  </...>
```

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

Schema Component Representation

```
<xs:complexType name="_VmsStatusMessageIndexVmsMessage">
  <xs:sequence>
    <xs:element name="vmsMessage" type="vms:VmsMessage" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="messageIndex" type="xs:int" use="required"/>
</xs:complexType>
```

[top](#)

Complex Type: **_VmsTypeEnum**

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

Sub-types: None

Name **_VmsTypeEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **_WorkingStatusEnum**

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

Sub-types: None

Name **_WorkingStatusEnum**

Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Simple Type: **ColourEnum**

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

Sub-types:

- [_ColourEnum](#) (by extension)

Name **ColourEnum**

Content

- Base XSD Type: string
- value comes from list: {'amber'|'blue'|'green'|'red'|'white'|'whiteYellow'|'_extended'}

Documentation Colours.

Schema Component Representation

```
<xs:simpleType name="ColourEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="amber"/>
    <xs:enumeration value="blue"/>
    <xs:enumeration value="green"/>
    <xs:enumeration value="red"/>
    <xs:enumeration value="white"/>
    <xs:enumeration value="whiteYellow"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type: **CompositePictogramEnum**

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

Sub-types:

- [_CompositePictogramEnum](#) (by extension)

Name CompositePictogramEnum

Content

- Base XSD Type: string
- *value* comes from list:
{conditionOnCurrentSectionAfterNextExit|conditionAtNextExit|conditionOnCurrentSectionAfterSecondtExit|conditionAtSecondExit|restrictionOnC

Documentation Identifies a pictogram used only for building a composite pictogram

Schema Component Representation

```
<xs:simpleType name="CompositePictogramEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="conditionOnCurrentSectionAfterNextExit"/>
    <xs:enumeration value="conditionAtNextExit"/>
    <xs:enumeration value="conditionOnCurrentSectionAfterSecondtExit"/>
    <xs:enumeration value="conditionAtSecondExit"/>
    <xs:enumeration value="restrictionOnCurrentSectionAfterNextExit"/>
    <xs:enumeration value="restrictionAtNextExit"/>
    <xs:enumeration value="restrictionOnCurrentSectionAfterSecondExit"/>
    <xs:enumeration value="restrictionAtSecondtExit"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type: **DedicatedUsageEnum**

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

Sub-types:

- [_DedicatedUsageEnum](#) (by extension)

Name DedicatedUsageEnum

Content

- Base XSD Type: string
- *value* comes from list:
{energyInformation|inspectionArea|laneControlSystem|parkingInformation|rampMetering|tunnelManagement|other|_extended}

Documentation Type of usage for which a VMS is dedicated

Schema Component Representation

```
<xs:simpleType name="DedicatedUsageEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="energyInformation"/>
    <xs:enumeration value="inspectionArea"/>
    <xs:enumeration value="laneControlSystem"/>
    <xs:enumeration value="parkingInformation"/>
    <xs:enumeration value="rampMetering"/>
    <xs:enumeration value="tunnelManagement"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type: **DisplayedNumericalInformationTypeEnum**

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

Sub-types:

- [_DisplayedNumericalInformationTypeEnum](#) (by extension)

Name DisplayedNumericalInformationTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{distance|height|length|rateOfIncline|sectionLength|speed|weight|weightPerAxle|width|_extended}

Documentation Type of numerical information displayed

Schema Component Representation

```
<xs:simpleType name="DisplayedNumericalInformationTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="distance"/>
    <xs:enumeration value="height"/>
    <xs:enumeration value="length"/>
    <xs:enumeration value="rateOfIncline"/>
    <xs:enumeration value="sectionLength"/>
    <xs:enumeration value="speed"/>
    <xs:enumeration value="weight"/>
    <xs:enumeration value="weightPerAxle"/>
    <xs:enumeration value="width"/>
  </xs:restriction>
</xs:simpleType>
```

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

[top](#)

Simple Type: **GddPictogramCategoryCode**

Super-types: [xs:positiveInteger](#) < **GddPictogramCategoryCode** (by restriction)

Sub-types: None

Name GddPictogramCategoryCode

Content

- Base XSD Type: positiveInteger

Documentation A 3-digit code to identify a pictogram, as defined in ISO 14823 Graphic Data Dictionary. That standard is inconsistent in its definition of the value range; this model uses the more permissive definition where the bounds are 100 and 999.

Schema Component Representation

```
<xs:simpleType name="GddPictogramCategoryCode">
  <xs:restriction base="xs:positiveInteger"/>
</xs:simpleType>
```

[top](#)

Simple Type: **GddServiceCategoryEnum**

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

Sub-types:

- [_GddServiceCategoryEnum](#) (by extension)

Name GddServiceCategoryEnum

Content

- Base XSD Type: string
- value comes from list: {'dangerWarning'|'regulatory'|'informative'|'publicFacilities'|'ambientConditions'|'roadConditions'|'_extended'}

Documentation Type of service offered by the pictogram, as defined in ISO 14823.

Schema Component Representation

```
<xs:simpleType name="GddServiceCategoryEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="dangerWarning"/>
    <xs:enumeration value="regulatory"/>
    <xs:enumeration value="informative"/>
    <xs:enumeration value="publicFacilities"/>
    <xs:enumeration value="ambientConditions"/>
    <xs:enumeration value="roadConditions"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **ImageFormatEnum**

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

Sub-types:

- [_ImageFormatEnum](#) (by extension)

Name ImageFormatEnum

Content

- Base XSD Type: string
- value comes from list: {'bmp'|'gif'|'jpeg'|'png'|'tiff'|'_extended'}

Documentation Identifies an image format

Schema Component Representation

```
<xs:simpleType name="ImageFormatEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="bmp"/>
    <xs:enumeration value="gif"/>
    <xs:enumeration value="jpeg"/>
    <xs:enumeration value="png"/>
    <xs:enumeration value="tiff"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **InformationTypeEnum**

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

Sub-types:

- [_InformationTypeEnum](#) (by extension)

Name	InformationTypeEnum
Content	<ul style="list-style-type: none">• Base XSD Type: string• <i>value</i> comes from list: {situationInformation 'warning' prohibition obligation destination travelTime delay location vehicleType generalInformation blank other '_extended'}
Documentation	Type of text characterisation.

Schema Component Representation

```
<xs:simpleType name="InformationTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="situationInformation"/>
    <xs:enumeration value="warning"/>
    <xs:enumeration value="prohibition"/>
    <xs:enumeration value="obligation"/>
    <xs:enumeration value="destination"/>
    <xs:enumeration value="travelTime"/>
    <xs:enumeration value="delay"/>
    <xs:enumeration value="location"/>
    <xs:enumeration value="vehicleType"/>
    <xs:enumeration value="generalInformation"/>
    <xs:enumeration value="blank"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **MessageInformationTypeEnum**

Super-types:	xs:string < MessageInformationTypeEnum (by restriction)
Sub-types:	<ul style="list-style-type: none">• _MessageInformationTypeEnum (by extension)

Name	MessageInformationTypeEnum
Content	<ul style="list-style-type: none">• Base XSD Type: string• <i>value</i> comes from list: {campaignMessage dateTime futureInformation instructionOrMessage situationWarning temperature trafficManagement travelTime '_extended'}
Documentation	Types of information displayable on a VMS.

Schema Component Representation

```
<xs:simpleType name="MessageInformationTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="campaignMessage"/>
    <xs:enumeration value="dateTime"/>
    <xs:enumeration value="futureInformation"/>
    <xs:enumeration value="instructionOrMessage"/>
    <xs:enumeration value="situationWarning"/>
    <xs:enumeration value="temperature"/>
    <xs:enumeration value="trafficManagement"/>
    <xs:enumeration value="travelTime"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **PhysicalSupportEnum**

Super-types:	xs:string < PhysicalSupportEnum (by restriction)
Sub-types:	<ul style="list-style-type: none">• _PhysicalSupportEnum (by extension)

Name	PhysicalSupportEnum
Content	<ul style="list-style-type: none">• Base XSD Type: string• <i>value</i> comes from list: {centralReservationMounted gantryMounted overheadBridgeMounted roadsideCantileverMounted roadsideMounted trailerMounted tunnelEntranceMounted vehicleMounted '_extended'}
Documentation	The ways in which equipments such as VMS are mounted or deployed on the road.

Schema Component Representation

```
<xs:simpleType name="PhysicalSupportEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="centralReservationMounted"/>
    <xs:enumeration value="gantryMounted"/>
    <xs:enumeration value="overheadBridgeMounted"/>
    <xs:enumeration value="roadsideCantileverMounted"/>
    <xs:enumeration value="roadsideMounted"/>
    <xs:enumeration value="trailerMounted"/>
    <xs:enumeration value="tunnelEntranceMounted"/>
    <xs:enumeration value="vehicleMounted"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **PictogramEnum**

Super-types:

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

Sub-types:

- [_PictogramEnum](#) (by extension)

Name	PictogramEnum
Content	<ul style="list-style-type: none">Base XSD Type: string<i>value</i> comes from list: {'blankVoid','bridgeClosed','carParkFull','carParkSpacesAvailable','corridorForEmergencyVehicleAccess','curveArrowToLeft','curveArrowToRight','dan
Documentation	Types of pictogram not currently covered by ISO 14823 Graphic Data Dictionary

Schema Component Representation

```
<xs:simpleType name="PictogramEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="blankVoid" />
    <xs:enumeration value="bridgeClosed" />
    <xs:enumeration value="carParkFull" />
    <xs:enumeration value="carParkSpacesAvailable" />
    <xs:enumeration value="corridorForEmergencyVehicleAccess" />
    <xs:enumeration value="curveArrowToLeft" />
    <xs:enumeration value="curveArrowToRight" />
    <xs:enumeration value="dangerOfFire" />
    <xs:enumeration value="doubleExitToLeft" />
    <xs:enumeration value="doubleExitToRight" />
    <xs:enumeration value="endOfAdvisorySpeed" />
    <xs:enumeration value="fastenChildrensSeatBelts" />
    <xs:enumeration value="fastenYourSeatBelt" />
    <xs:enumeration value="fire" />
    <xs:enumeration value="footballMatch" />
    <xs:enumeration value="hardShoulderNotRunning" />
    <xs:enumeration value="hardShoulderRunning" />
    <xs:enumeration value="horizontalDiversionToLeft" />
    <xs:enumeration value="horizontalDiversionToRight" />
    <xs:enumeration value="keepASafeDistance" />
    <xs:enumeration value="keepLeft" />
    <xs:enumeration value="keepRight" />
    <xs:enumeration value="lane1ClosedOf2" />
    <xs:enumeration value="lane2ClosedOf2" />
    <xs:enumeration value="lane1ClosedOf3" />
    <xs:enumeration value="lane3ClosedOf3" />
    <xs:enumeration value="lanes1And2ClosedOf3" />
    <xs:enumeration value="lanes2And3ClosedOf3" />
    <xs:enumeration value="lane1ClosedOf4" />
    <xs:enumeration value="lane4ClosedOf4" />
    <xs:enumeration value="lanes1And2ClosedOf4" />
    <xs:enumeration value="lanes3And4ClosedOf4" />
    <xs:enumeration value="lanes1And2And3ClosedOf4" />
    <xs:enumeration value="lanes2And3And4ClosedOf4" />
    <xs:enumeration value="leftHandLaneClosed" />
    <xs:enumeration value="narrowLanesAhead" />
    <xs:enumeration value="obliqueArrowToLeft" />
    <xs:enumeration value="obliqueArrowToRight" />
    <xs:enumeration value="pollutionOrSmogAlert" />
    <xs:enumeration value="rightHandLaneClosed" />
    <xs:enumeration value="singleExitToLeft" />
    <xs:enumeration value="singleExitToRight" />
    <xs:enumeration value="smoke" />
    <xs:enumeration value="snowPloughInAction" />
    <xs:enumeration value="speedCamerasInAction" />
    <xs:enumeration value="straightVerticalArrow" />
    <xs:enumeration value="trafficDeviatedToOppositeCarriagewayAhead" />
    <xs:enumeration value="trafficPartiallyDeviatedToOppositeCarriagewayAhead" />
    <xs:enumeration value="tunnelClosed" />
    <xs:enumeration value="verticalDiversion" />
    <xs:enumeration value="other" />
    <xs:enumeration value="_extended" />
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **PositionXAbsoluteEnum**

Super-types:

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

Sub-types:

- [_PositionXAbsoluteEnum](#) (by extension)

Name	PositionXAbsoluteEnum
Content	<ul style="list-style-type: none">Base XSD Type: string<i>value</i> comes from list: {'onLeft','inTheMiddle','onRight','_extended'}
Documentation	Absolute horizontal positions of an item within an assigned space.

Schema Component Representation

```
<xs:simpleType name="PositionXAbsoluteEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="onLeft" />
    <xs:enumeration value="inTheMiddle" />
    <xs:enumeration value="onRight" />
    <xs:enumeration value="_extended" />
  </xs:restriction>
```

</xs:simpleType>

[top](#)

Simple Type: **PositionXRelativeEnum**

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

Sub-types:

- [_PositionXRelativeEnum](#) (by extension)

Name PositionXRelativeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'toTheLeft'|'alignedOnTheLeftSide'|'centred'|'alignedOnTheRightSide'|'toTheRight'|'_extended'}

Documentation Relative horizontal positions of one item to another.

Schema Component Representation

```
<xs:simpleType name="PositionXRelativeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="toTheLeft"/>
    <xs:enumeration value="alignedOnTheLeftSide"/>
    <xs:enumeration value="centred"/>
    <xs:enumeration value="alignedOnTheRightSide"/>
    <xs:enumeration value="toTheRight"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **PositionYAbsoluteEnum**

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

Sub-types:

- [_PositionYAbsoluteEnum](#) (by extension)

Name PositionYAbsoluteEnum

Content

- Base XSD Type: string
- *value* comes from list: {'atTop'|'inTheMiddle'|'atBottom'|'_extended'}

Documentation Absolute verticals positions of an item within an assigned space.

Schema Component Representation

```
<xs:simpleType name="PositionYAbsoluteEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="atTop"/>
    <xs:enumeration value="inTheMiddle"/>
    <xs:enumeration value="atBottom"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **PositionYRelativeEnum**

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

Sub-types:

- [_PositionYRelativeEnum](#) (by extension)

Name PositionYRelativeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'above'|'alignedOnTheTopSide'|'centred'|'alignedOnTheBottomSide'|'below'|'_extended'}

Documentation Relative vertical positions of one item to another.

Schema Component Representation

```
<xs:simpleType name="PositionYRelativeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="above"/>
    <xs:enumeration value="alignedOnTheTopSide"/>
    <xs:enumeration value="centred"/>
    <xs:enumeration value="alignedOnTheBottomSide"/>
    <xs:enumeration value="below"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **SettingReasonEnum**

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

Sub-types:

- [_SettingReasonEnum](#) (by extension)

Name SettingReasonEnum

Content

- Base XSD Type: string
- *value* comes from list:
{situation|operatorCreated|trafficManagement|travelTime|campaign|default|_extended}

Documentation Coded reasons why a message has been selected for display on the sign.

Schema Component Representation

```
<xs:simpleType name="_SettingReasonEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="situation"/>
    <xs:enumeration value="operatorCreated"/>
    <xs:enumeration value="trafficManagement"/>
    <xs:enumeration value="travelTime"/>
    <xs:enumeration value="campaign"/>
    <xs:enumeration value="default"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: SupplementalPictogramEnum

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

Sub-types:

- [_SupplementalPictogramEnum](#) (by extension)

Name SupplementalPictogramEnum

Content

- Base XSD Type: string
- *value* comes from list:
{distanceToTheBeginningOfTheApplicationZone|exceptAnyPowerDrivenVehicleDrawingTrailer|exceptBus|exceptGoodsVehicles|exceptSemitraile

Documentation Types of pictograms displayable in supplementary panels (normally below the main pictogram display which it qualifies).

Schema Component Representation

```
<xs:simpleType name="SupplementalPictogramEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="distanceToTheBeginningOfTheApplicationZone"/>
    <xs:enumeration value="exceptAnyPowerDrivenVehicleDrawingTrailer"/>
    <xs:enumeration value="exceptBus"/>
    <xs:enumeration value="exceptGoodsVehicles"/>
    <xs:enumeration value="exceptSemitrailer"/>
    <xs:enumeration value="exceptVehiclesCarryingDangerousGoods"/>
    <xs:enumeration value="inCaseOfIceOrSnow"/>
    <xs:enumeration value="lengthOfTheApplicationZone"/>
    <xs:enumeration value="restrictedToAnyPowerDrivenVehicleDrawingTrailer"/>
    <xs:enumeration value="restrictedToBus"/>
    <xs:enumeration value="restrictedToGoodsVehicles"/>
    <xs:enumeration value="restrictedToSemiTrailer"/>
    <xs:enumeration value="restrictedToVehiclesCarryingDangerousGoods"/>
    <xs:enumeration value="maintenanceVehicles"/>
    <xs:enumeration value="snowPloughs"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: UnitOfMeasureEnum

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

Sub-types:

- [_UnitOfMeasureEnum](#) (by extension)

Name UnitOfMeasureEnum

Content

- Base XSD Type: string
- *value* comes from list:
{feet|feetAndInches|kilometres|kilometresPerHour|metres|miles|milesPerHour|percentage|tonnes|yards|_extended}

Documentation Identifies a unit of measure for a physical quantity

Schema Component Representation

```
<xs:simpleType name="UnitOfMeasureEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="feet"/>
    <xs:enumeration value="feetAndInches"/>
    <xs:enumeration value="kilometres"/>
    <xs:enumeration value="kilometresPerHour"/>
    <xs:enumeration value="metres"/>
    <xs:enumeration value="miles"/>
    <xs:enumeration value="milesPerHour"/>
    <xs:enumeration value="percentage"/>
    <xs:enumeration value="tonnes"/>
  </xs:restriction>
</xs:simpleType>
```

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

[top](#)

Simple Type: **VmsControllerFaultEnum**

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

Sub-types:

- [_VmsControllerFaultEnum](#) (by extension)

Name VmsControllerFaultEnum

Content

- Base XSD Type: string
- *value* comes from list: {'communicationsFailure'|'powerFailure'|'unknown'|'other'|'_extended'}

Documentation Types of variable message sign controller faults.

Schema Component Representation

```
<xs:simpleType name="VmsControllerFaultEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="communicationsFailure"/>
    <xs:enumeration value="powerFailure"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **VmsFaultEnum**

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

Sub-types:

- [_VmsFaultEnum](#) (by extension)

Name VmsFaultEnum

Content

- Base XSD Type: string
- *value* comes from list: {'incorrectMessageDisplayed'|'incorrectPictogramDisplayed'|'outOfService'|'unableToClearDown'|'unknown'|'other'|'_extended'}

Documentation Types of variable message sign faults.

Schema Component Representation

```
<xs:simpleType name="VmsFaultEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="incorrectMessageDisplayed"/>
    <xs:enumeration value="incorrectPictogramDisplayed"/>
    <xs:enumeration value="outOfService"/>
    <xs:enumeration value="unableToClearDown"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **VmsTypeEnum**

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

Sub-types:

- [_VmsTypeEnum](#) (by extension)

Name VmsTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'colourGraphic'|'rotatingPrismSign'|'monochromeGraphic'|'simpleMatrixSign'|'fullMatrixSign'|'rollerBlindSign'|'virtualVms'|'other'|'_extended'}

Documentation Type of variable message sign.

Schema Component Representation

```
<xs:simpleType name="VmsTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="colourGraphic"/>
    <xs:enumeration value="rotatingPrismSign"/>
    <xs:enumeration value="monochromeGraphic"/>
    <xs:enumeration value="simpleMatrixSign"/>
    <xs:enumeration value="fullMatrixSign"/>
    <xs:enumeration value="rollerBlindSign"/>
    <xs:enumeration value="virtualVms"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
```

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

[top](#)

Simple Type: **WorkingStatusEnum**

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

Sub-types:

- [_WorkingStatusEnum](#) (by extension)

Name WorkingStatusEnum

Content

- Base XSD Type: string
- *value* comes from list: {'blank'|'covered'|'notWorking'|'working'|'_extended'}

Documentation Identifies the working status of a VMS.

Schema Component Representation

```
<xs:simpleType name="WorkingStatusEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="blank"/>
    <xs:enumeration value="covered"/>
    <xs:enumeration value="notWorking"/>
    <xs:enumeration value="working"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

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