Realis ITS

Version 06.03.2020

DatexII 2.3 profile realiscameras-1.0

Realis
INFORMACIJSKE TEHNOLOGIJE

DatexII 2.3 Profile realiscameras 1.0

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Schema Document Properties

Target Namespace	http://datex2.eu/schema/2/2_0
Version	2.3
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.

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace

xs	http://www.w3.org/2001/XMLSchema
D2LogicalModel	http://datex2.eu/schema/2/2_0

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified" version="2.3"
targetNamespace="http://datex2.eu/schema/2/2_0">
  ...
</xs:schema>
```

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Global Declarations

Element: d2LogicalModel

Name	d2LogicalModel
Type	D2LogicalModel:D2LogicalModel
Nillable	no
Abstract	no

XML Instance Representation

```
<D2LogicalModel:d2LogicalModel
 modelBaseVersion="2 [1]">
   <!--
   Uniqueness Constraint - _d2LogicalModelPredefinedLocationConstraint
   Selector - .//D2LogicalModel:predefinedLocation
   Field(s) - @id, @version
   -->

   <D2LogicalModel:exchange> D2LogicalModel:Exchange </D2LogicalModel:exchange> [1]
   <D2LogicalModel:payloadPublication> D2LogicalModel:PayloadPublication </D2LogicalModel:payloadPublication> [0..1]
   <D2LogicalModel:d2LogicalModelExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:d2LogicalModelExtension>
   [0..1]
</D2LogicalModel:d2LogicalModel>
```

Schema Component Representation

```
<xs:element name="d2LogicalModel" type="D2LogicalModel:D2LogicalModel">
  <xs:unique name="_d2LogicalModelPredefinedLocationConstraint">
    <xs:selector xpath=".//D2LogicalModel:predefinedLocation"/>
    <xs:field xpath="@id"/>
    <xs:field xpath="@version"/>
  </xs:unique>
</xs:element>
```

top

Global Definitions

Complex Type: AffectedCarriagewayAndLanes

Super-types:	None
Sub-types:	None

Name	AffectedCarriagewayAndLanes
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

```
<...>
   <D2LogicalModel:carriageway> D2LogicalModel:CarriagewayEnum </D2LogicalModel:carriageway> [1] ?
   <D2LogicalModel:lane> D2LogicalModel:LaneEnum </D2LogicalModel:lane> [0..*] ?
   <D2LogicalModel:footpath> D2LogicalModel:Boolean </D2LogicalModel:footpath> [0..1] ?
   <D2LogicalModel:lengthAffected> D2LogicalModel:MetresAsFloat </D2LogicalModel:lengthAffected> [0..1] ?
   <D2LogicalModel:affectedCarriagewayAndLanesExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:affectedCarriagewayAndLanesExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AffectedCarriagewayAndLanes">
  <xs:sequence>
    <xs:element name="carriageway" type="D2LogicalModel:CarriagewayEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="lane" type="D2LogicalModel:LaneEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="footpath" type="D2LogicalModel:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="lengthAffected" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="affectedCarriagewayAndLanesExtension" type="D2LogicalModel:_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

```
<...>
   <D2LogicalModel:alertCDirectionCoded> D2LogicalModel:AlertCDirectionEnum </D2LogicalModel:alertCDirectionCoded>
   [1] ?
   <D2LogicalModel:alertCDirectionNamed> D2LogicalModel:MultilingualString </D2LogicalModel:alertCDirectionNamed>
   [0..1] ?
   <D2LogicalModel:alertCDirectionSense> D2LogicalModel:Boolean </D2LogicalModel:alertCDirectionSense> [0..1] ?
   <D2LogicalModel:alertCDirectionExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:alertCDirectionExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCDirection">
   <xs:sequence>
      <xs:element name="alertCDirectionCoded" type="D2LogicalModel:AlertCDirectionEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="alertCDirectionNamed" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="alertCDirectionSense" type="D2LogicalModel:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="alertCDirectionExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</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

```
<...>
   <D2LogicalModel:alertCLocationName> D2LogicalModel:MultilingualString </D2LogicalModel:alertCLocationName> [0..1]
   ?
   <D2LogicalModel:specificLocation> D2LogicalModel:AlertCLocationCode </D2LogicalModel:specificLocation> [1] ?
   <D2LogicalModel:alertCLocationExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:alertCLocationExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCLocation">
   <xs:sequence>
      <xs:element name="alertCLocationName" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="specificLocation" type="D2LogicalModel:AlertCLocationCode" minOccurs="1" maxOccurs="1"/>
      <xs:element name="alertCLocationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

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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

```
<...>
   <D2LogicalModel:alertCLocationCountryCode> D2LogicalModel:String </D2LogicalModel:alertCLocationCountryCode> [1] ?
   <D2LogicalModel:alertCLocationTableNumber> D2LogicalModel:String </D2LogicalModel:alertCLocationTableNumber> [1] ?
   <D2LogicalModel:alertCLocationTableVersion> D2LogicalModel:String </D2LogicalModel:alertCLocationTableVersion> [1]
   ?
   <D2LogicalModel:alertCPointExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:alertCPointExtension> [0..1]
   <D2LogicalModel:alertCDirection> D2LogicalModel:AlertCDirection </D2LogicalModel:alertCDirection> [1]
   <D2LogicalModel:alertCMethod4PrimaryPointLocation> D2LogicalModel:AlertCMethod4PrimaryPointLocation
   </D2LogicalModel:alertCMethod4PrimaryPointLocation> [1]
   <D2LogicalModel:alertCMethod4PointExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:alertCMethod4PointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod4Point">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:AlertCPoint">
         <xs:sequence>
            <xs:element name="alertCDirection" type="D2LogicalModel:AlertCDirection"/>
            <xs:element name="alertCMethod4PrimaryPointLocation"
            type="D2LogicalModel:AlertCMethod4PrimaryPointLocation"/>
            <xs:element name="alertCMethod4PointExtension" type="D2LogicalModel:_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

```
<...>
  <D2LogicalModel:alertCLocation> D2LogicalModel:AlertCLocation </D2LogicalModel:alertCLocation> [1]
  <D2LogicalModel:offsetDistance> D2LogicalModel:OffsetDistance </D2LogicalModel:offsetDistance> [1]
  <D2LogicalModel:alertCMethod4PrimaryPointLocationExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:alertCMethod4PrimaryPointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod4PrimaryPointLocation">
  <xs:sequence>
    <xs:element name="alertCLocation" type="D2LogicalModel:AlertCLocation"/>
    <xs:element name="offsetDistance" type="D2LogicalModel:OffsetDistance"/>
    <xs:element name="alertCMethod4PrimaryPointLocationExtension" type="D2LogicalModel:_ExtensionType"
    minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: AlertCPoint

Super-types:	None
Sub-types:	• 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

```
<...>
  <D2LogicalModel:alertCLocationCountryCode> D2LogicalModel:String </D2LogicalModel:alertCLocationCountryCode> [1] ?
  <D2LogicalModel:alertCLocationTableNumber> D2LogicalModel:String </D2LogicalModel:alertCLocationTableNumber> [1] ?
  <D2LogicalModel:alertCLocationTableVersion> D2LogicalModel:String </D2LogicalModel:alertCLocationTableVersion> [1]
  ?
  <D2LogicalModel:alertCPointExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:alertCPointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCPoint" abstract="true">
  <xs:sequence>
    <xs:element name="alertCLocationCountryCode" type="D2LogicalModel:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="alertCLocationTableNumber" type="D2LogicalModel:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="alertCLocationTableVersion" type="D2LogicalModel:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="alertCPointExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: D2LogicalModel

Super-types:	None
Sub-types:	None

Name	D2LogicalModel
Abstract	no
Documentation	The DATEX II logical model comprising exchange, content payload and management sub-models.

XML Instance Representation

```
<...
 modelBaseVersion="2 [1]">
  <D2LogicalModel:exchange> D2LogicalModel:Exchange </D2LogicalModel:exchange> [1]
  <D2LogicalModel:payloadPublication> D2LogicalModel:PayloadPublication </D2LogicalModel:payloadPublication> [0..1]
  <D2LogicalModel:d2LogicalModelExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:d2LogicalModelExtension>
  [0..1]
```

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

Schema Component Representation

```
<xs:complexType name="D2LogicalModel">
  <xs:sequence>
    <xs:element name="exchange" type="D2LogicalModel:Exchange"/>
    <xs:element name="payloadPublication" type="D2LogicalModel:PayloadPublication" minOccurs="0"/>
    <xs:element name="d2LogicalModelExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="modelBaseVersion" use="required" fixed="2"/>
</xs:complexType>
```

top

Complex Type: DistanceAlongLinearElement

Super-types:	None
Sub-types:	• DistanceFromLinearElementStart (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

```
<...>
  <D2LogicalModel:distanceAlongLinearElementExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:distanceAlongLinearElementExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DistanceAlongLinearElement" abstract="true">
  <xs:sequence>
    <xs:element name="distanceAlongLinearElementExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: DistanceFromLinearElementStart

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

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

XML Instance Representation

```
<...>
  <D2LogicalModel:distanceAlongLinearElementExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:distanceAlongLinearElementExtension> [0..1]
  <D2LogicalModel:distanceAlong> D2LogicalModel:MetresAsFloat </D2LogicalModel:distanceAlong> [1] ?
  <D2LogicalModel:distanceFromLinearElementStartExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:distanceFromLinearElementStartExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DistanceFromLinearElementStart">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DistanceAlongLinearElement">
      <xs:sequence>
        <xs:element name="distanceAlong" type="D2LogicalModel:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
        <xs:element name="distanceFromLinearElementStartExtension" type="D2LogicalModel:_ExtensionType"
        minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Exchange

Super-types:	None
Sub-types:	None

Name	Exchange
Abstract	no
Documentation	Details associated with the management of the exchange between the supplier and the client.

XML Instance Representation

```
<...>
   <D2LogicalModel:supplierIdentification> D2LogicalModel:InternationalIdentifier
   </D2LogicalModel:supplierIdentification> [1]
   <D2LogicalModel:exchangeExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:exchangeExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Exchange">
   <xs:sequence>
      <xs:element name="supplierIdentification" type="D2LogicalModel:InternationalIdentifier"/>
      <xs:element name="exchangeExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: GroupOfLocations

Super-types: None

Sub-types:

- Location (by extension)
  - NetworkLocation (by extension)
    - Point (by extension)

Name	GroupOfLocations
Abstract	yes
Documentation	One or more physically separate locations. Multiple locations may be related, as in an itinerary (or route), or may be unrelated. It is not for identifying the same physical location using different Location objects for different referencing systems.

XML Instance Representation

```
<...>
   <D2LogicalModel:groupOfLocationsExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:groupOfLocationsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="GroupOfLocations" abstract="true">
   <xs:sequence>
      <xs:element name="groupOfLocationsExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: HeaderInformation

Super-types: None

Sub-types: None

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

XML Instance Representation

```
<...>
   <D2LogicalModel:areaOfInterest> D2LogicalModel:AreaOfInterestEnum </D2LogicalModel:areaOfInterest> [0..1] ?
   <D2LogicalModel:confidentiality> D2LogicalModel:ConfidentialityValueEnum </D2LogicalModel:confidentiality> [1] ?
   <D2LogicalModel:informationStatus> D2LogicalModel:InformationStatusEnum </D2LogicalModel:informationStatus> [1] ?
   <D2LogicalModel:urgency> D2LogicalModel:UrgencyEnum </D2LogicalModel:urgency> [0..1] ?
   <D2LogicalModel:headerInformationExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:headerInformationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="HeaderInformation">
   <xs:sequence>
      <xs:element name="areaOfInterest" type="D2LogicalModel:AreaOfInterestEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="confidentiality" type="D2LogicalModel:ConfidentialityValueEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="informationStatus" type="D2LogicalModel:InformationStatusEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="urgency" type="D2LogicalModel:UrgencyEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="headerInformationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: InternationalIdentifier

Super-types: None

Sub-types: None

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

XML Instance Representation

```
<...>
   <D2LogicalModel:country> D2LogicalModel:CountryEnum </D2LogicalModel:country> [1] ?
   <D2LogicalModel:nationalIdentifier> D2LogicalModel:String </D2LogicalModel:nationalIdentifier> [1] ?
   <D2LogicalModel:internationalIdentifierExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:internationalIdentifierExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="InternationalIdentifier">
   <xs:sequence>
      <xs:element name="country" type="D2LogicalModel:CountryEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="nationalIdentifier" type="D2LogicalModel:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="internationalIdentifierExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: LinearElement

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

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

XML Instance Representation

```
<...>
   <D2LogicalModel:roadName> D2LogicalModel:MultilingualString </D2LogicalModel:roadName> [0..1] ?
   <D2LogicalModel:linearElementExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:linearElementExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearElement">
   <xs:sequence>
      <xs:element name="roadName" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="linearElementExtension" type="D2LogicalModel:_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

```
<...>
   <D2LogicalModel:roadName> D2LogicalModel:MultilingualString </D2LogicalModel:roadName> [0..1] ?
   <D2LogicalModel:linearElementExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:linearElementExtension>
   [0..1]
   <D2LogicalModel:linearElementIdentifier> D2LogicalModel:String </D2LogicalModel:linearElementIdentifier> [1] ?
   <D2LogicalModel:linearElementByCodeExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:linearElementByCodeExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearElementByCode">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:LinearElement">
         <xs:sequence>
            <xs:element name="linearElementIdentifier" type="D2LogicalModel:String" minOccurs="1" maxOccurs="1"/>
            <xs:element name="linearElementByCodeExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Location

Super-types:	GroupOfLocations < **Location** (by extension)
Sub-types:	• NetworkLocation (by extension) ◦ Point (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

```
<...>
   <D2LogicalModel:groupOfLocationsExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:groupOfLocationsExtension> [0..1]
   <D2LogicalModel:locationForDisplay> D2LogicalModel:PointCoordinates </D2LogicalModel:locationForDisplay> [0..1] ?
   <D2LogicalModel:locationExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:locationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Location" abstract="true">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:GroupOfLocations">
         <xs:sequence>
            <xs:element name="locationForDisplay" type="D2LogicalModel:PointCoordinates" minOccurs="0"/>
            <xs:element name="locationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: MultilingualString

Super-types:	None
Sub-types:	None

Name	MultilingualString
Abstract	no

XML Instance Representation

```
<...>
   <D2LogicalModel:values> [1]
      <D2LogicalModel:value> D2LogicalModel:MultilingualStringValue </D2LogicalModel:value> [1..*]
   </D2LogicalModel:values>
</...>
```

Schema Component Representation

```
<xs:complexType name="MultilingualString">
   <xs:sequence>
      <xs:element name="values">
         <xs:complexType>
            <xs:sequence>
               <xs:element name="value" type="D2LogicalModel:MultilingualStringValue" maxOccurs="unbounded"/>
            </xs:sequence>
         </xs:complexType>
      </xs:element>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: MultilingualStringValue

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

Name	MultilingualStringValue
Abstract	no

XML Instance Representation

```
<...
 lang="xs:language [0..1]">
   D2LogicalModel:MultilingualStringValueType
</...>
```

Schema Component Representation

```
<xs:complexType name="MultilingualStringValue">
   <xs:simpleContent>
      <xs:extension base="D2LogicalModel:MultilingualStringValueType">
         <xs:attribute name="lang" type="xs:language"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: NetworkLocation

Super-types:	GroupOfLocations < Location (by extension) < **NetworkLocation** (by extension)
Sub-types:	• Point (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

```
<...>
   <D2LogicalModel:groupOfLocationsExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:groupOfLocationsExtension> [0..1]
   <D2LogicalModel:locationForDisplay> D2LogicalModel:PointCoordinates </D2LogicalModel:locationForDisplay> [0..1] ?
   <D2LogicalModel:locationExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:locationExtension> [0..1]
   <D2LogicalModel:supplementaryPositionalDescription> D2LogicalModel:SupplementaryPositionalDescription
   </D2LogicalModel:supplementaryPositionalDescription> [0..1]
   <D2LogicalModel:networkLocationExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:networkLocationExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NetworkLocation" abstract="true">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:Location">
         <xs:sequence>
            <xs:element name="supplementaryPositionalDescription"
            type="D2LogicalModel:SupplementaryPositionalDescription" minOccurs="0"/>
            <xs:element name="networkLocationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

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

```
<...>
   <D2LogicalModel:offsetDistance> D2LogicalModel:MetresAsNonNegativeInteger </D2LogicalModel:offsetDistance> [1] ?
   <D2LogicalModel:offsetDistanceExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:offsetDistanceExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OffsetDistance">
   <xs:sequence>
      <xs:element name="offsetDistance" type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="1" maxOccurs="1"/>
      <xs:element name="offsetDistanceExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrBaseLocationReferencePoint

Super-types:	None
Sub-types:	• OpenlrLastLocationReferencePoint (by extension) • OpenlrLocationReferencePoint (by extension)

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

XML Instance Representation

```
<...>
   <D2LogicalModel:openlrCoordinate> D2LogicalModel:PointCoordinates </D2LogicalModel:openlrCoordinate> [1]
   <D2LogicalModel:openlrLineAttributes> D2LogicalModel:OpenlrLineAttributes </D2LogicalModel:openlrLineAttributes>
   [1]
   <D2LogicalModel:openlrBaseLocationReferencePointExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:openlrBaseLocationReferencePointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrBaseLocationReferencePoint" abstract="true">
   <xs:sequence>
      <xs:element name="openlrCoordinate" type="D2LogicalModel:PointCoordinates"/>
      <xs:element name="openlrLineAttributes" type="D2LogicalModel:OpenlrLineAttributes"/>
      <xs:element name="openlrBaseLocationReferencePointExtension" type="D2LogicalModel:_ExtensionType"
      minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrBasePointLocation

Super-types:	None
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

```
<...>
   <D2LogicalModel:openlrSideOfRoad> D2LogicalModel:OpenlrSideOfRoadEnum </D2LogicalModel:openlrSideOfRoad> [1] ?
   <D2LogicalModel:openlrOrientation> D2LogicalModel:OpenlrOrientationEnum </D2LogicalModel:openlrOrientation> [1] ?
   <D2LogicalModel:openlrPositiveOffset> D2LogicalModel:MetresAsNonNegativeInteger
   </D2LogicalModel:openlrPositiveOffset> [0..1] ?
   <D2LogicalModel:openlrLocationReferencePoint> D2LogicalModel:OpenlrLocationReferencePoint
   </D2LogicalModel:openlrLocationReferencePoint> [1]
   <D2LogicalModel:openlrLastLocationReferencePoint> D2LogicalModel:OpenlrLastLocationReferencePoint
   </D2LogicalModel:openlrLastLocationReferencePoint> [1]
   <D2LogicalModel:openlrBasePointLocationExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:openlrBasePointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrBasePointLocation" abstract="true">
   <xs:sequence>
      <xs:element name="openlrSideOfRoad" type="D2LogicalModel:OpenlrSideOfRoadEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="openlrOrientation" type="D2LogicalModel:OpenlrOrientationEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="openlrPositiveOffset" type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="openlrLocationReferencePoint" type="D2LogicalModel:OpenlrLocationReferencePoint"/>
      <xs:element name="openlrLastLocationReferencePoint" type="D2LogicalModel:OpenlrLastLocationReferencePoint"/>
      <xs:element name="openlrBasePointLocationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrExtendedPoint

Super-types:	None
Sub-types:	None

Name	OpenlrExtendedPoint
Abstract	no
Documentation	Extension class for OpenLR point.

XML Instance Representation

```
<...>
   <D2LogicalModel:openlrPointLocationReference> D2LogicalModel:OpenlrPointLocationReference
   </D2LogicalModel:openlrPointLocationReference> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrExtendedPoint">
   <xs:sequence>
      <xs:element name="openlrPointLocationReference" type="D2LogicalModel:OpenlrPointLocationReference"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrGeoCoordinate

Super-types:	None
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

```
<...>
   <D2LogicalModel:openlrCoordinate> D2LogicalModel:PointCoordinates </D2LogicalModel:openlrCoordinate> [1]
   <D2LogicalModel:openlrGeoCoordinateExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:openlrGeoCoordinateExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrGeoCoordinate">
   <xs:sequence>
      <xs:element name="openlrCoordinate" type="D2LogicalModel:PointCoordinates"/>
```

```
    <xs:element name="openlrGeoCoordinateExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrLastLocationReferencePoint

Super-types:	OpenlrBaseLocationReferencePoint < **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

```
<...>
  <D2LogicalModel:openlrCoordinate> D2LogicalModel:PointCoordinates </D2LogicalModel:openlrCoordinate> [1]
  <D2LogicalModel:openlrLineAttributes> D2LogicalModel:OpenlrLineAttributes </D2LogicalModel:openlrLineAttributes>
  [1]
  <D2LogicalModel:openlrBaseLocationReferencePointExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:openlrBaseLocationReferencePointExtension> [0..1]
  <D2LogicalModel:openlrLastLocationReferencePointExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:openlrLastLocationReferencePointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrLastLocationReferencePoint">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:OpenlrBaseLocationReferencePoint">
      <xs:sequence>
        <xs:element name="openlrLastLocationReferencePointExtension" type="D2LogicalModel:_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

```
<...>
  <D2LogicalModel:openlrFunctionalRoadClass> D2LogicalModel:OpenlrFunctionalRoadClassEnum
  </D2LogicalModel:openlrFunctionalRoadClass> [1] ?
  <D2LogicalModel:openlrFormOfWay> D2LogicalModel:OpenlrFormOfWayEnum </D2LogicalModel:openlrFormOfWay> [1] ?
  <D2LogicalModel:openlrBearing> D2LogicalModel:AngleInDegrees </D2LogicalModel:openlrBearing> [1] ?
  <D2LogicalModel:openlrLineAttributesExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:openlrLineAttributesExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrLineAttributes">
  <xs:sequence>
    <xs:element name="openlrFunctionalRoadClass" type="D2LogicalModel:OpenlrFunctionalRoadClassEnum" minOccurs="1"
    maxOccurs="1"/>
    <xs:element name="openlrFormOfWay" type="D2LogicalModel:OpenlrFormOfWayEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="openlrBearing" type="D2LogicalModel:AngleInDegrees" minOccurs="1" maxOccurs="1"/>
    <xs:element name="openlrLineAttributesExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrLocationReferencePoint

Super-types:	OpenlrBaseLocationReferencePoint < **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

```
<...>
  <D2LogicalModel:openlrCoordinate> D2LogicalModel:PointCoordinates </D2LogicalModel:openlrCoordinate> [1]
```

```
<D2LogicalModel:openlrLineAttributes> D2LogicalModel:OpenlrLineAttributes </D2LogicalModel:openlrLineAttributes>
[1]
<D2LogicalModel:openlrBaseLocationReferencePointExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:openlrBaseLocationReferencePointExtension> [0..1]
<D2LogicalModel:openlrPathAttributes> D2LogicalModel:OpenlrPathAttributes </D2LogicalModel:openlrPathAttributes>
[1]
<D2LogicalModel:openlrLocationReferencePointExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:openlrLocationReferencePointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrLocationReferencePoint">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:OpenlrBaseLocationReferencePoint">
      <xs:sequence>
        <xs:element name="openlrPathAttributes" type="D2LogicalModel:OpenlrPathAttributes"/>
        <xs:element name="openlrLocationReferencePointExtension" type="D2LogicalModel:_ExtensionType"
        minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrPathAttributes

Super-types:	None
Sub-types:	None

Name	OpenlrPathAttributes
Abstract	no
Documentation	The field path attributes is part of a location reference point (except for the last location reference point) and consists of lowest functional road class (LFRCNP) and distance to next point (DNP) data.

XML Instance Representation

```
<...>
  <D2LogicalModel:openlrLowestFRCToNextLRPoint> D2LogicalModel:OpenlrFunctionalRoadClassEnum
  </D2LogicalModel:openlrLowestFRCToNextLRPoint> [1] ?
  <D2LogicalModel:openlrDistanceToNextLRPoint> D2LogicalModel:NonNegativeInteger
  </D2LogicalModel:openlrDistanceToNextLRPoint> [1] ?
  <D2LogicalModel:openlrPathAttributesExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:openlrPathAttributesExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrPathAttributes">
  <xs:sequence>
    <xs:element name="openlrLowestFRCToNextLRPoint" type="D2LogicalModel:OpenlrFunctionalRoadClassEnum"
    minOccurs="1" maxOccurs="1"/>
    <xs:element name="openlrDistanceToNextLRPoint" type="D2LogicalModel:NonNegativeInteger" minOccurs="1"
    maxOccurs="1"/>
    <xs:element name="openlrPathAttributesExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: OpenlrPoiWithAccessPoint

Super-types:	OpenlrBasePointLocation < **OpenlrPoiWithAccessPoint** (by extension)
Sub-types:	None

Name	OpenlrPoiWithAccessPoint
Abstract	no
Documentation	Point along line with access is a point location which is defined by a line,an offset value and a coordinate.

XML Instance Representation

```
<...>
  <D2LogicalModel:openlrSideOfRoad> D2LogicalModel:OpenlrSideOfRoadEnum </D2LogicalModel:openlrSideOfRoad> [1] ?
  <D2LogicalModel:openlrOrientation> D2LogicalModel:OpenlrOrientationEnum </D2LogicalModel:openlrOrientation> [1] ?
  <D2LogicalModel:openlrPositiveOffset> D2LogicalModel:MetresAsNonNegativeInteger
  </D2LogicalModel:openlrPositiveOffset> [0..1] ?
  <D2LogicalModel:openlrLocationReferencePoint> D2LogicalModel:OpenlrLocationReferencePoint
  </D2LogicalModel:openlrLocationReferencePoint> [1]
  <D2LogicalModel:openlrLastLocationReferencePoint> D2LogicalModel:OpenlrLastLocationReferencePoint
  </D2LogicalModel:openlrLastLocationReferencePoint> [1]
  <D2LogicalModel:openlrBasePointLocationExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:openlrBasePointLocationExtension> [0..1]
  <D2LogicalModel:openlrCoordinate> D2LogicalModel:PointCoordinates </D2LogicalModel:openlrCoordinate> [1] ?
  <D2LogicalModel:openlrPoiWithAccessPointExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:openlrPoiWithAccessPointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrPoiWithAccessPoint">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:OpenlrBasePointLocation">
      <xs:sequence>
        <xs:element name="openlrCoordinate" type="D2LogicalModel:PointCoordinates"/>
```

```
        <xs:element name="openlrPoiWithAccessPointExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrPointAlongLine

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

Name	OpenlrPointAlongLine
Abstract	no
Documentation	Point along a line

XML Instance Representation

```
<...>
  <D2LogicalModel:openlrSideOfRoad> D2LogicalModel:OpenlrSideOfRoadEnum </D2LogicalModel:openlrSideOfRoad> [1] ?
  <D2LogicalModel:openlrOrientation> D2LogicalModel:OpenlrOrientationEnum </D2LogicalModel:openlrOrientation> [1] ?
  <D2LogicalModel:openlrPositiveOffset> D2LogicalModel:MetresAsNonNegativeInteger
  </D2LogicalModel:openlrPositiveOffset> [0..1] ?
  <D2LogicalModel:openlrLocationReferencePoint> D2LogicalModel:OpenlrLocationReferencePoint
  </D2LogicalModel:openlrLocationReferencePoint> [1]
  <D2LogicalModel:openlrLastLocationReferencePoint> D2LogicalModel:OpenlrLastLocationReferencePoint
  </D2LogicalModel:openlrLastLocationReferencePoint> [1]
  <D2LogicalModel:openlrBasePointLocationExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:openlrBasePointLocationExtension> [0..1]
  <D2LogicalModel:openlrPointAlongLineExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:openlrPointAlongLineExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrPointAlongLine">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:OpenlrBasePointLocation">
      <xs:sequence>
        <xs:element name="openlrPointAlongLineExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: OpenlrPointLocationReference

Super-types:	None
Sub-types:	None

Name	OpenlrPointLocationReference
Abstract	no
Documentation	A point location is a zero-dimensional element in a map that specifies a geometric location.

XML Instance Representation

```
<...>
  <D2LogicalModel:openlrGeoCoordinate> D2LogicalModel:OpenlrGeoCoordinate </D2LogicalModel:openlrGeoCoordinate>
  [0..1]
  <D2LogicalModel:openlrPoiWithAccessPoint> D2LogicalModel:OpenlrPoiWithAccessPoint
  </D2LogicalModel:openlrPoiWithAccessPoint> [0..1]
  <D2LogicalModel:openlrPointAlongLine> D2LogicalModel:OpenlrPointAlongLine </D2LogicalModel:openlrPointAlongLine>
  [0..1]
  <D2LogicalModel:openlrPointLocationReferenceExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:openlrPointLocationReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrPointLocationReference">
  <xs:sequence>
    <xs:element name="openlrGeoCoordinate" type="D2LogicalModel:OpenlrGeoCoordinate" minOccurs="0"/>
    <xs:element name="openlrPoiWithAccessPoint" type="D2LogicalModel:OpenlrPoiWithAccessPoint" minOccurs="0"/>
    <xs:element name="openlrPointAlongLine" type="D2LogicalModel:OpenlrPointAlongLine" minOccurs="0"/>
    <xs:element name="openlrPointLocationReferenceExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: PayloadPublication

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

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="D2LogicalModel:Language [1] ?">
   <D2LogicalModel:publicationTime> D2LogicalModel:DateTime </D2LogicalModel:publicationTime> [1] ?
   <D2LogicalModel:publicationCreator> D2LogicalModel:InternationalIdentifier </D2LogicalModel:publicationCreator>
   [1]
   <D2LogicalModel:payloadPublicationExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:payloadPublicationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PayloadPublication" abstract="true">
   <xs:sequence>
      <xs:element name="publicationTime" type="D2LogicalModel:DateTime" minOccurs="1" maxOccurs="1"/>
      <xs:element name="publicationCreator" type="D2LogicalModel:InternationalIdentifier"/>
      <xs:element name="payloadPublicationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
   <xs:attribute name="lang" type="D2LogicalModel:Language" use="required"/>
</xs:complexType>
```

top

Complex Type: Point

Super-types:	GroupOfLocations < Location (by extension) < NetworkLocation (by extension) < **Point** (by extension)
Sub-types:	None

Name Point

Abstract no

Documentation A single geospatial point.

XML Instance Representation

```
<...>
   <D2LogicalModel:groupOfLocationsExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:groupOfLocationsExtension> [0..1]
   <D2LogicalModel:locationForDisplay> D2LogicalModel:PointCoordinates </D2LogicalModel:locationForDisplay> [0..1] ?
   <D2LogicalModel:locationExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:locationExtension> [0..1]
   <D2LogicalModel:supplementaryPositionalDescription> D2LogicalModel:SupplementaryPositionalDescription
   </D2LogicalModel:supplementaryPositionalDescription> [0..1]
   <D2LogicalModel:networkLocationExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:networkLocationExtension>
   [0..1]
   <D2LogicalModel:alertCPoint> D2LogicalModel:AlertCPoint </D2LogicalModel:alertCPoint> [0..1]
   <D2LogicalModel:pointAlongLinearElement> D2LogicalModel:PointAlongLinearElement
   </D2LogicalModel:pointAlongLinearElement> [0..1]
   <D2LogicalModel:pointByCoordinates> D2LogicalModel:PointByCoordinates </D2LogicalModel:pointByCoordinates> [0..1]
   <D2LogicalModel:pointExtension> D2LogicalModel:_PointExtensionType </D2LogicalModel:pointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Point">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:NetworkLocation">
         <xs:sequence>
            <xs:element name="alertCPoint" type="D2LogicalModel:AlertCPoint" minOccurs="0"/>
            <xs:element name="pointAlongLinearElement" type="D2LogicalModel:PointAlongLinearElement" minOccurs="0"/>
            <xs:element name="pointByCoordinates" type="D2LogicalModel:PointByCoordinates" minOccurs="0"/>
            <xs:element name="pointExtension" type="D2LogicalModel:_PointExtensionType" 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 ISO 19148 definitions.

XML Instance Representation

```
<...>
   <D2LogicalModel:directionRelativeAtPoint> D2LogicalModel:LinearReferencingDirectionEnum
   </D2LogicalModel:directionRelativeAtPoint> [0..1] ?
   <D2LogicalModel:linearElement> D2LogicalModel:LinearElement </D2LogicalModel:linearElement> [1]
   <D2LogicalModel:distanceAlongLinearElement> D2LogicalModel:DistanceAlongLinearElement
   </D2LogicalModel:distanceAlongLinearElement> [1]
   <D2LogicalModel:pointAlongLinearElementExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:pointAlongLinearElementExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PointAlongLinearElement">
  <xs:sequence>
    <xs:element name="directionRelativeAtPoint" type="D2LogicalModel:LinearReferencingDirectionEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="linearElement" type="D2LogicalModel:LinearElement"/>
    <xs:element name="distanceAlongLinearElement" type="D2LogicalModel:DistanceAlongLinearElement"/>
    <xs:element name="pointAlongLinearElementExtension" type="D2LogicalModel:_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

```
<...>
  <D2LogicalModel:bearing> D2LogicalModel:NonNegativeInteger </D2LogicalModel:bearing> [0..1] ?
  <D2LogicalModel:pointCoordinates> D2LogicalModel:PointCoordinates </D2LogicalModel:pointCoordinates> [1]
  <D2LogicalModel:pointByCoordinatesExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:pointByCoordinatesExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PointByCoordinates">
  <xs:sequence>
    <xs:element name="bearing" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="pointCoordinates" type="D2LogicalModel:PointCoordinates"/>
    <xs:element name="pointByCoordinatesExtension" type="D2LogicalModel:_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 coordinates defining the geodetic position of a single point using the European Terrestrial Reference System 1989 (ETRS89).

XML Instance Representation

```
<...>
  <D2LogicalModel:latitude> D2LogicalModel:Float </D2LogicalModel:latitude> [1] ?
  <D2LogicalModel:longitude> D2LogicalModel:Float </D2LogicalModel:longitude> [1] ?
  <D2LogicalModel:pointCoordinatesExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:pointCoordinatesExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PointCoordinates">
  <xs:sequence>
    <xs:element name="latitude" type="D2LogicalModel:Float" minOccurs="1" maxOccurs="1"/>
    <xs:element name="longitude" type="D2LogicalModel:Float" minOccurs="1" maxOccurs="1"/>
    <xs:element name="pointCoordinatesExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: PredefinedLocation

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

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

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
  <D2LogicalModel:predefinedLocationContainerExtension> D2LogicalModel:_PredefinedLocationContainerExtensionType
  </D2LogicalModel:predefinedLocationContainerExtension> [0..1]
  <D2LogicalModel:predefinedLocationName> D2LogicalModel:MultilingualString </D2LogicalModel:predefinedLocationName>
  [0..1] ?
```

```
   <D2LogicalModel:location> D2LogicalModel:Location </D2LogicalModel:location> [1]
   <D2LogicalModel:predefinedLocationExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:predefinedLocationExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="PredefinedLocation">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:PredefinedLocationContainer">
         <xs:sequence>
            <xs:element name="predefinedLocationName" type="D2LogicalModel:MultilingualString" minOccurs="0"
            maxOccurs="1"/>
            <xs:element name="location" type="D2LogicalModel:Location"/>
            <xs:element name="predefinedLocationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
         <xs:attribute name="id" type="xs:string" use="required"/>
         <xs:attribute name="version" type="xs:string" use="required"/>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: PredefinedLocationContainer

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

Name	PredefinedLocationContainer
Abstract	yes
Documentation	A container which may comprise the definition of a predefined itinerary, non ordered group of locations or single location.

XML Instance Representation

```
<.../>
   <D2LogicalModel:predefinedLocationContainerExtension> D2LogicalModel:_PredefinedLocationContainerExtensionType
   </D2LogicalModel:predefinedLocationContainerExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="PredefinedLocationContainer" abstract="true">
   <xs:sequence>
      <xs:element name="predefinedLocationContainerExtension"
      type="D2LogicalModel:_PredefinedLocationContainerExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: PredefinedLocationsPublication

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

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

XML Instance Representation

```
<...
 lang="D2LogicalModel:Language [1] ?">
   <D2LogicalModel:publicationTime> D2LogicalModel:DateTime </D2LogicalModel:publicationTime> [1] ?
   <D2LogicalModel:publicationCreator> D2LogicalModel:InternationalIdentifier </D2LogicalModel:publicationCreator>
   [1]
   <D2LogicalModel:payloadPublicationExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:payloadPublicationExtension> [0..1]
   <D2LogicalModel:headerInformation> D2LogicalModel:HeaderInformation </D2LogicalModel:headerInformation> [1]
   <D2LogicalModel:predefinedLocationContainer> D2LogicalModel:PredefinedLocationContainer
   </D2LogicalModel:predefinedLocationContainer> [1..*]
   <D2LogicalModel:predefinedLocationsPublicationExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:predefinedLocationsPublicationExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="PredefinedLocationsPublication">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:PayloadPublication">
         <xs:sequence>
            <xs:element name="headerInformation" type="D2LogicalModel:HeaderInformation"/>
            <xs:element name="predefinedLocationContainer" type="D2LogicalModel:PredefinedLocationContainer"
            maxOccurs="unbounded"/>
            <xs:element name="predefinedLocationsPublicationExtension" type="D2LogicalModel:_ExtensionType"
            minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

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="D2LogicalModel:MetresAsNonNegativeInteger [0..1] ?">
   <D2LogicalModel:locationDescriptor> D2LogicalModel:LocationDescriptorEnum </D2LogicalModel:locationDescriptor>
   [0..*] ?
   <D2LogicalModel:sequentialRampNumber> D2LogicalModel:NonNegativeInteger </D2LogicalModel:sequentialRampNumber>
   [0..1] ?
   <D2LogicalModel:affectedCarriagewayAndLanes> D2LogicalModel:AffectedCarriagewayAndLanes
   </D2LogicalModel:affectedCarriagewayAndLanes> [0..*]
   <D2LogicalModel:supplementaryPositionalDescriptionExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:supplementaryPositionalDescriptionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SupplementaryPositionalDescription">
   <xs:sequence>
      <xs:element name="locationDescriptor" type="D2LogicalModel:LocationDescriptorEnum" minOccurs="0"
      maxOccurs="unbounded"/>
      <xs:element name="sequentialRampNumber" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
      <xs:element name="affectedCarriagewayAndLanes" type="D2LogicalModel:AffectedCarriagewayAndLanes" minOccurs="0"
      maxOccurs="unbounded"/>
      <xs:element name="supplementaryPositionalDescriptionExtension" type="D2LogicalModel:_ExtensionType"
      minOccurs="0"/>
   </xs:sequence>
   <xs:attribute name="locationPrecision" type="D2LogicalModel:MetresAsNonNegativeInteger" use="optional"/>
</xs:complexType>
```

top

Complex Type: TrafficCameraRecord

Super-types:	None
Sub-types:	None

Name	TrafficCameraRecord
Abstract	no
Documentation	RealisCameras extension type

XML Instance Representation

```
<...>
   <D2LogicalModel:cameraId> D2LogicalModel:String </D2LogicalModel:cameraId> [1] ?
   <D2LogicalModel:updatedTS> D2LogicalModel:DateTime </D2LogicalModel:updatedTS> [0..1] ?
   <D2LogicalModel:stillImageUrl> D2LogicalModel:Url </D2LogicalModel:stillImageUrl> [0..1] ?
   <D2LogicalModel:stillImageContentType> D2LogicalModel:String </D2LogicalModel:stillImageContentType> [0..1] ?
   <D2LogicalModel:stillImageHeight> D2LogicalModel:NonNegativeInteger </D2LogicalModel:stillImageHeight> [0..1] ?
   <D2LogicalModel:stillImageWidth> D2LogicalModel:NonNegativeInteger </D2LogicalModel:stillImageWidth> [0..1] ?
   <D2LogicalModel:stillImageRefreshIntervalMS> D2LogicalModel:NonNegativeInteger
   </D2LogicalModel:stillImageRefreshIntervalMS> [0..1] ?
   <D2LogicalModel:videoUrl> D2LogicalModel:Url </D2LogicalModel:videoUrl> [0..1] ?
   <D2LogicalModel:videoContentType> D2LogicalModel:String </D2LogicalModel:videoContentType> [0..1] ?
   <D2LogicalModel:videoHeight> D2LogicalModel:NonNegativeInteger </D2LogicalModel:videoHeight> [0..1] ?
   <D2LogicalModel:videoWidth> D2LogicalModel:NonNegativeInteger </D2LogicalModel:videoWidth> [0..1] ?
   <D2LogicalModel:videoFrameRate> D2LogicalModel:Float </D2LogicalModel:videoFrameRate> [0..1] ?
   <D2LogicalModel:viewBearing> D2LogicalModel:AngleInDegrees </D2LogicalModel:viewBearing> [0..1] ?
   <D2LogicalModel:viewAngle> D2LogicalModel:AngleInDegrees </D2LogicalModel:viewAngle> [0..1] ?
   <D2LogicalModel:zoom> D2LogicalModel:Float </D2LogicalModel:zoom> [0..1] ?
   <D2LogicalModel:heightMeters> D2LogicalModel:Float </D2LogicalModel:heightMeters> [0..1] ?
   <D2LogicalModel:cameraTitle> D2LogicalModel:MultilingualString </D2LogicalModel:cameraTitle> [0..1] ?
   <D2LogicalModel:cameraDescription> D2LogicalModel:MultilingualString </D2LogicalModel:cameraDescription> [0..1] ?
   <D2LogicalModel:groupId> D2LogicalModel:String </D2LogicalModel:groupId> [0..1] ?
   <D2LogicalModel:groupName> D2LogicalModel:MultilingualString </D2LogicalModel:groupName> [0..1] ?
   <D2LogicalModel:regionName> D2LogicalModel:MultilingualString </D2LogicalModel:regionName> [0..1] ?
   <D2LogicalModel:cameraType> D2LogicalModel:TrafficCameraTypeEnum </D2LogicalModel:cameraType> [0..1] ?
   <D2LogicalModel:visibility> D2LogicalModel:TrafficCameraVisibilityEnum </D2LogicalModel:visibility> [0..1] ?
   <D2LogicalModel:cameraCapabilities> D2LogicalModel:TrafficCameraCapabilityEnum
   </D2LogicalModel:cameraCapabilities> [0..*] ?
   <D2LogicalModel:priority> D2LogicalModel:NonNegativeInteger </D2LogicalModel:priority> [0..1] ?
   <D2LogicalModel:previousCameraId> D2LogicalModel:String </D2LogicalModel:previousCameraId> [0..1] ?
   <D2LogicalModel:nextCameraId> D2LogicalModel:String </D2LogicalModel:nextCameraId> [0..1] ?
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficCameraRecord">
   <xs:sequence>
      <xs:element name="cameraId" type="D2LogicalModel:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="updatedTS" type="D2LogicalModel:DateTime" minOccurs="0" maxOccurs="1"/>
      <xs:element name="stillImageUrl" type="D2LogicalModel:Url" minOccurs="0" maxOccurs="1"/>
      <xs:element name="stillImageContentType" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="stillImageHeight" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
```

```
    <xs:element name="stillImageWidth" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="stillImageRefreshIntervalMS" type="D2LogicalModel:NonNegativeInteger" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="videoUrl" type="D2LogicalModel:Url" minOccurs="0" maxOccurs="1"/>
    <xs:element name="videoContentType" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="videoHeight" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="videoWidth" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="videoFrameRate" type="D2LogicalModel:Float" minOccurs="0" maxOccurs="1"/>
    <xs:element name="viewBearing" type="D2LogicalModel:AngleInDegrees" minOccurs="0" maxOccurs="1"/>
    <xs:element name="viewAngle" type="D2LogicalModel:AngleInDegrees" minOccurs="0" maxOccurs="1"/>
    <xs:element name="zoom" type="D2LogicalModel:Float" minOccurs="0" maxOccurs="1"/>
    <xs:element name="heightMeters" type="D2LogicalModel:Float" minOccurs="0" maxOccurs="1"/>
    <xs:element name="cameraTitle" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="cameraDescription" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="groupId" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="groupName" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="regionName" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="cameraType" type="D2LogicalModel:TrafficCameraTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="visibility" type="D2LogicalModel:TrafficCameraVisibilityEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="cameraCapabilities" type="D2LogicalModel:TrafficCameraCapabilityEnum" minOccurs="0"
    maxOccurs="unbounded"/>
    <xs:element name="priority" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="previousCameraId" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="nextCameraId" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: _ExtensionType

Super-types:	None
Sub-types:	None

Name _ExtensionType

Abstract no

XML Instance Representation

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

Schema Component Representation

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

top

Complex Type: _PointExtensionType

Super-types:	None
Sub-types:	None

Name _PointExtensionType

Abstract no

XML Instance Representation

```
<...>
  <D2LogicalModel:openlrExtendedPoint> D2LogicalModel:OpenlrExtendedPoint </D2LogicalModel:openlrExtendedPoint>
  [0..1]
  Allow any elements from a namespace other than this schema's namespace (lax validation). [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="_PointExtensionType">
  <xs:sequence>
    <xs:element name="openlrExtendedPoint" type="D2LogicalModel:OpenlrExtendedPoint" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: _PredefinedLocationContainerExtensionType

Super-types:	None
Sub-types:	None

Name _PredefinedLocationContainerExtensionType

Abstract no

XML Instance Representation

```
<...>
  <D2LogicalModel:trafficCameraRecord> D2LogicalModel:TrafficCameraRecord </D2LogicalModel:trafficCameraRecord>
  [0..1]
```

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

Schema Component Representation

```
<xs:complexType name="_PredefinedLocationContainerExtensionType">
  <xs:sequence>
    <xs:element name="trafficCameraRecord" type="D2LogicalModel:TrafficCameraRecord" minOccurs="0"/>
    <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

top

Simple Type: AlertCDirectionEnum

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

Name AlertCDirectionEnum

Content

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

Documentation The direction of traffic flow concerned by a situation or traffic data. In ALERT-C the positive (resp. negative) direction corresponds to the positive offset direction within the RDS location table.

Schema Component Representation

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

top

Simple Type: AlertCLocationCode

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

Name AlertCLocationCode

Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

```
<xs:simpleType name="AlertCLocationCode">
  <xs:restriction base="D2LogicalModel:NonNegativeInteger"/>
</xs:simpleType>
```

top

Simple Type: AngleInDegrees

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

Name AngleInDegrees

Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

```
<xs:simpleType name="AngleInDegrees">
  <xs:restriction base="D2LogicalModel:NonNegativeInteger"/>
</xs:simpleType>
```

top

Simple Type: AreaOfInterestEnum

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

Name AreaOfInterestEnum

Content

- Base XSD Type: string
- *value* comes from list: {'continentWide'|'national'|'neighbouringCountries'|'notSpecified'|'regional'}

Documentation Types of areas of interest.

Schema Component Representation

```
<xs:simpleType name="AreaOfInterestEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="continentWide"/>
    <xs:enumeration value="national"/>
    <xs:enumeration value="neighbouringCountries"/>
    <xs:enumeration value="notSpecified"/>
    <xs:enumeration value="regional"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: Boolean

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

Name Boolean

Content

- Base XSD Type: boolean

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

Schema Component Representation

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

top

Simple Type: CarriagewayEnum

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

Name CarriagewayEnum

Content

- Base XSD Type: string
- *value* comes from list: {'connectingCarriageway'|'entrySlipRoad'|'exitSlipRoad'|'flyover'|'leftHandFeederRoad'|'leftHandParallelCarriageway'|'mainCarriageway'|'oppositeCar

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="entrySlipRoad"/>
    <xs:enumeration value="exitSlipRoad"/>
    <xs:enumeration value="flyover"/>
    <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:restriction>
</xs:simpleType>
```

top

Simple Type: ConfidentialityValueEnum

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

Name ConfidentialityValueEnum

Content

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

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

top

Simple Type: CountryEnum

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

Name CountryEnum

Content

- Base XSD Type: string
- *value* comes from list:
  {'at'|'be'|'bg'|'ch'|'cs'|'cy'|'cz'|'de'|'dk'|'ee'|'es'|'fi'|'fo'|'fr'|'gb'|'gg'|'gi'|'gr'|'hr'|'hu'|'ie'|'im'|'is'|'it'|'je'|'li'|'lt'|'lu'|'lv'|'ma'|'mc'|'mk'|'mt'|'nl'|'no'|'pl'|'pt'|'ro'|'se'|'si'|'sk'|'sr

Documentation List of countries.

Schema Component Representation

```
<xs:simpleType name="CountryEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="at"/>
      <xs:enumeration value="be"/>
      <xs:enumeration value="bg"/>
      <xs:enumeration value="ch"/>
      <xs:enumeration value="cs"/>
      <xs:enumeration value="cy"/>
      <xs:enumeration value="cz"/>
      <xs:enumeration value="de"/>
      <xs:enumeration value="dk"/>
      <xs:enumeration value="ee"/>
      <xs:enumeration value="es"/>
      <xs:enumeration value="fi"/>
      <xs:enumeration value="fo"/>
      <xs:enumeration value="fr"/>
      <xs:enumeration value="gb"/>
      <xs:enumeration value="gg"/>
      <xs:enumeration value="gi"/>
      <xs:enumeration value="gr"/>
      <xs:enumeration value="hr"/>
      <xs:enumeration value="hu"/>
      <xs:enumeration value="ie"/>
      <xs:enumeration value="im"/>
      <xs:enumeration value="is"/>
      <xs:enumeration value="it"/>
      <xs:enumeration value="je"/>
      <xs:enumeration value="li"/>
      <xs:enumeration value="lt"/>
      <xs:enumeration value="lu"/>
      <xs:enumeration value="lv"/>
      <xs:enumeration value="ma"/>
      <xs:enumeration value="mc"/>
      <xs:enumeration value="mk"/>
      <xs:enumeration value="mt"/>
      <xs:enumeration value="nl"/>
      <xs:enumeration value="no"/>
      <xs:enumeration value="pl"/>
      <xs:enumeration value="pt"/>
      <xs:enumeration value="ro"/>
      <xs:enumeration value="se"/>
      <xs:enumeration value="si"/>
      <xs:enumeration value="sk"/>
      <xs:enumeration value="sm"/>
      <xs:enumeration value="tr"/>
      <xs:enumeration value="va"/>
      <xs:enumeration value="other"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: DateTime

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

Name DateTime

Content

- Base XSD Type: dateTime

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

Schema Component Representation

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

top

Simple Type: Float

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

Name Float

Content

- Base XSD Type: float

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

Schema Component Representation

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

top

Simple Type: InformationStatusEnum

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

Name InformationStatusEnum

Content

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

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

top

Simple Type: LaneEnum

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

Name LaneEnum

Content

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

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="emergencyLane"/>
    <xs:enumeration value="escapeLane"/>
    <xs:enumeration value="expressLane"/>
    <xs:enumeration value="hardShoulder"/>
    <xs:enumeration value="heavyVehicleLane"/>
    <xs:enumeration value="lane1"/>
    <xs:enumeration value="lane2"/>
    <xs:enumeration value="lane3"/>
    <xs:enumeration value="lane4"/>
    <xs:enumeration value="lane5"/>
    <xs:enumeration value="lane6"/>
    <xs:enumeration value="lane7"/>
    <xs:enumeration value="lane8"/>
    <xs:enumeration value="lane9"/>
    <xs:enumeration value="layBy"/>
    <xs:enumeration value="leftHandTurningLane"/>
    <xs:enumeration value="leftLane"/>
    <xs:enumeration value="localTrafficLane"/>
    <xs:enumeration value="middleLane"/>
    <xs:enumeration value="opposingLanes"/>
    <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:restriction>
</xs:simpleType>
```

top

Simple Type: Language

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

Name Language

Content

- Base XSD Type: language

Documentation A language datatype, identifies a specified language by an ISO 639-1 2-alpha / ISO 639-2 3-alpha code.

Schema Component Representation

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

top

Simple Type: LinearReferencingDirectionEnum

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

Name LinearReferencingDirectionEnum

Content

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

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

Schema Component Representation

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

top

Simple Type: LocationDescriptorEnum

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

Name LocationDescriptorEnum

Content

- Base XSD Type: string
- *value* comes from list: {'aroundABendInRoad'|'atMotorwayInterchange'|'atRestArea'|'atServiceArea'|'atTollPlaza'|'atTunnelEntryOrExit'|'inbound'|'inGallery'|'inTheCentre'|'inT

Documentation List of descriptors to help to identify a specific location.

Schema Component Representation

```
<xs:simpleType name="LocationDescriptorEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="aroundABendInRoad"/>
      <xs:enumeration value="atMotorwayInterchange"/>
      <xs:enumeration value="atRestArea"/>
      <xs:enumeration value="atServiceArea"/>
      <xs:enumeration value="atTollPlaza"/>
      <xs:enumeration value="atTunnelEntryOrExit"/>
      <xs:enumeration value="inbound"/>
      <xs:enumeration value="inGallery"/>
      <xs:enumeration value="inTheCentre"/>
      <xs:enumeration value="inTheOppositeDirection"/>
      <xs:enumeration value="inTunnel"/>
      <xs:enumeration value="onBorder"/>
      <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="onPass"/>
      <xs:enumeration value="onRoundabout"/>
      <xs:enumeration value="onTheLeft"/>
      <xs:enumeration value="onTheRight"/>
      <xs:enumeration value="onTheRoadway"/>
```

```
      <xs:enumeration value="onUndergroundSection"/>
      <xs:enumeration value="onUnderpass"/>
      <xs:enumeration value="outbound"/>
      <xs:enumeration value="overCrestOfHill"/>
      <xs:enumeration value="withinJunction"/>
    </xs:restriction>
</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="D2LogicalModel: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="D2LogicalModel:NonNegativeInteger"/>
</xs:simpleType>
```

top

Simple Type: MultilingualStringValueType

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

Name MultilingualStringValueType

Content

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

Schema Component Representation

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

top

Simple Type: NonNegativeInteger

Super-types:	xs:nonNegativeInteger < **NonNegativeInteger** (by restriction)
Sub-types:	• AlertCLocationCode (by restriction) • 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: OpenlrFormOfWayEnum

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

Name OpenlrFormOfWayEnum

Content

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

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

top

Simple Type: OpenlrFunctionalRoadClassEnum

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

Name OpenlrFunctionalRoadClassEnum

Content

- Base XSD Type: string
- *value* comes from list: {'FRC0'|'FRC1'|'FRC2'|'FRC3'|'FRC4'|'FRC5'|'FRC6'|'FRC7'}

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

top

Simple Type: OpenlrOrientationEnum

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

Name OpenlrOrientationEnum

Content

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

Documentation Enumeration of side of road

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

top

Simple Type: OpenlrSideOfRoadEnum

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

Name OpenlrSideOfRoadEnum

Content

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

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

top

Simple Type: String

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

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: TrafficCameraCapabilityEnum

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

Name TrafficCameraCapabilityEnum

Content

- Base XSD Type: string
- *value* comes from list: {'canPan'|'canTilt'|'canZoom'}

Documentation Which capabilites does the camera support - pan, tilt, ...

Schema Component Representation

```
<xs:simpleType name="TrafficCameraCapabilityEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="canPan"/>
    <xs:enumeration value="canTilt"/>
    <xs:enumeration value="canZoom"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TrafficCameraTypeEnum

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

Name TrafficCameraTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'analog'|'digital'}

Documentation Camera type

Schema Component Representation

```
<xs:simpleType name="TrafficCameraTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="analog"/>
    <xs:enumeration value="digital"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TrafficCameraVisibilityEnum

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

Name TrafficCameraVisibilityEnum

Content

- Base XSD Type: string
- *value* comes from list: {'noRestrictions'|'internalOnly'|'hidden'}

Documentation Specify wheter the camera visibility is restricted

Schema Component Representation

```
<xs:simpleType name="TrafficCameraVisibilityEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="noRestrictions"/>
    <xs:enumeration value="internalOnly"/>
    <xs:enumeration value="hidden"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: UrgencyEnum

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

Name UrgencyEnum

Content

- Base XSD Type: string
- *value* comes from list: {'extremelyUrgent'|'urgent'|'normalUrgency'}

Documentation Degrees of urgency that a receiving client should associate with the disseminate of the information contained in the publication.

Schema Component Representation

```
<xs:simpleType name="UrgencyEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="extremelyUrgent"/>
    <xs:enumeration value="urgent"/>
    <xs:enumeration value="normalUrgency"/>
  </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>
```

top