Realis ITS

Version 29.10.2020

DatexII 2.3 profile realisVmsTable-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 - _d2LogicalModelVmsUnitTableConstraint
   Selector - .//D2LogicalModel:vmsUnitTable
   Field(s) - @id, @version
   -->
   <!--
   Uniqueness Constraint - _d2LogicalModelVmsUnitRecordConstraint
   Selector - .//D2LogicalModel:vmsUnitRecord
   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="_d2LogicalModelVmsUnitTableConstraint">
      <xs:selector xpath=".//D2LogicalModel:vmsUnitTable"/>
      <xs:field xpath="@id"/>
      <xs:field xpath="@version"/>
   </xs:unique>
   <xs:unique name="_d2LogicalModelVmsUnitRecordConstraint">
      <xs:selector xpath=".//D2LogicalModel:vmsUnitRecord"/>
      <xs:field xpath="@id"/>
      <xs:field xpath="@version"/>
   </xs:unique>
</xs:element>
```

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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: 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

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

Schema Component Representation

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

top

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

```
<...>
  <D2LogicalModel:alertCLocationCountryCode> D2LogicalModel:String </D2LogicalModel:alertCLocationCountryCode> [1] ?
  <D2LogicalModel:alertCLocationTableNumber> D2LogicalModel:String </D2LogicalModel:alertCLocationTableNumber> [1] ?
  <D2LogicalModel:alertCLocationTableVersion> D2LogicalModel:String </D2LogicalModel:alertCLocationTableVersion> [1]
  ?
  <D2LogicalModel:alertCLinearExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:alertCLinearExtension>
  [0..1]
  <D2LogicalModel:alertCDirection> D2LogicalModel:AlertCDirection </D2LogicalModel:alertCDirection> [1]
  <D2LogicalModel:locationCodeForLinearLocation> D2LogicalModel:AlertCLocation
  </D2LogicalModel:locationCodeForLinearLocation> [1] ?
  <D2LogicalModel:alertCLinearByCodeExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:alertCLinearByCodeExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCLinearByCode">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:AlertCLinear">
      <xs:sequence>
        <xs:element name="alertCDirection" type="D2LogicalModel:AlertCDirection"/>
        <xs:element name="locationCodeForLinearLocation" type="D2LogicalModel:AlertCLocation"/>
        <xs:element name="alertCLinearByCodeExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: AlertCLocation

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

top

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

```
<...>
   <D2LogicalModel:alertCLocationCountryCode> D2LogicalModel:String </D2LogicalModel:alertCLocationCountryCode> [1] ?
   <D2LogicalModel:alertCLocationTableNumber> D2LogicalModel:String </D2LogicalModel:alertCLocationTableNumber> [1] ?
   <D2LogicalModel:alertCLocationTableVersion> D2LogicalModel:String </D2LogicalModel:alertCLocationTableVersion> [1]
   ?
   <D2LogicalModel:alertCLinearExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:alertCLinearExtension>
   [0..1]
   <D2LogicalModel:alertCDirection> D2LogicalModel:AlertCDirection </D2LogicalModel:alertCDirection> [1]
   <D2LogicalModel:alertCMethod2PrimaryPointLocation> D2LogicalModel:AlertCMethod2PrimaryPointLocation
   </D2LogicalModel:alertCMethod2PrimaryPointLocation> [1]
   <D2LogicalModel:alertCMethod2SecondaryPointLocation> D2LogicalModel:AlertCMethod2SecondaryPointLocation
   </D2LogicalModel:alertCMethod2SecondaryPointLocation> [1]
   <D2LogicalModel:alertCMethod2LinearExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:alertCMethod2LinearExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod2Linear">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:AlertCLinear">
         <xs:sequence>
            <xs:element name="alertCDirection" type="D2LogicalModel:AlertCDirection"/>
            <xs:element name="alertCMethod2PrimaryPointLocation"
            type="D2LogicalModel:AlertCMethod2PrimaryPointLocation"/>
            <xs:element name="alertCMethod2SecondaryPointLocation"
            type="D2LogicalModel:AlertCMethod2SecondaryPointLocation"/>
            <xs:element name="alertCMethod2LinearExtension" type="D2LogicalModel:_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

```
<...>
   <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:alertCMethod2PrimaryPointLocation> D2LogicalModel:AlertCMethod2PrimaryPointLocation
</D2LogicalModel:alertCMethod2PrimaryPointLocation> [1]
<D2LogicalModel:alertCMethod2PointExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:alertCMethod2PointExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod2Point">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:AlertCPoint">
      <xs:sequence>
        <xs:element name="alertCDirection" type="D2LogicalModel:AlertCDirection"/>
        <xs:element name="alertCMethod2PrimaryPointLocation"
        type="D2LogicalModel:AlertCMethod2PrimaryPointLocation"/>
        <xs:element name="alertCMethod2PointExtension" type="D2LogicalModel:_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

```
<...>
  <D2LogicalModel:alertCLocation> D2LogicalModel:AlertCLocation </D2LogicalModel:alertCLocation> [1]
  <D2LogicalModel:alertCMethod2PrimaryPointLocationExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:alertCMethod2PrimaryPointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod2PrimaryPointLocation">
  <xs:sequence>
    <xs:element name="alertCLocation" type="D2LogicalModel:AlertCLocation"/>
    <xs:element name="alertCMethod2PrimaryPointLocationExtension" type="D2LogicalModel:_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

```
<...>
  <D2LogicalModel:alertCLocation> D2LogicalModel:AlertCLocation </D2LogicalModel:alertCLocation> [1]
  <D2LogicalModel:alertCMethod2SecondaryPointLocationExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:alertCMethod2SecondaryPointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod2SecondaryPointLocation">
  <xs:sequence>
    <xs:element name="alertCLocation" type="D2LogicalModel:AlertCLocation"/>
    <xs:element name="alertCMethod2SecondaryPointLocationExtension" type="D2LogicalModel:_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

```
<...>
   <D2LogicalModel:alertCLocationCountryCode> D2LogicalModel:String </D2LogicalModel:alertCLocationCountryCode> [1] ?
   <D2LogicalModel:alertCLocationTableNumber> D2LogicalModel:String </D2LogicalModel:alertCLocationTableNumber> [1] ?
   <D2LogicalModel:alertCLocationTableVersion> D2LogicalModel:String </D2LogicalModel:alertCLocationTableVersion> [1]
   ?
   <D2LogicalModel:alertCLinearExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:alertCLinearExtension>
   [0..1]
   <D2LogicalModel:alertCDirection> D2LogicalModel:AlertCDirection </D2LogicalModel:alertCDirection> [1]
   <D2LogicalModel:alertCMethod4PrimaryPointLocation> D2LogicalModel:AlertCMethod4PrimaryPointLocation
   </D2LogicalModel:alertCMethod4PrimaryPointLocation> [1]
   <D2LogicalModel:alertCMethod4SecondaryPointLocation> D2LogicalModel:AlertCMethod4SecondaryPointLocation
   </D2LogicalModel:alertCMethod4SecondaryPointLocation> [1]
   <D2LogicalModel:alertCMethod4LinearExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:alertCMethod4LinearExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod4Linear">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:AlertCLinear">
         <xs:sequence>
            <xs:element name="alertCDirection" type="D2LogicalModel:AlertCDirection"/>
            <xs:element name="alertCMethod4PrimaryPointLocation"
            type="D2LogicalModel:AlertCMethod4PrimaryPointLocation"/>
            <xs:element name="alertCMethod4SecondaryPointLocation"
            type="D2LogicalModel:AlertCMethod4SecondaryPointLocation"/>
            <xs:element name="alertCMethod4LinearExtension" type="D2LogicalModel:_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

```
<...>
   <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: 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

```
<...>
   <D2LogicalModel:alertCLocation> D2LogicalModel:AlertCLocation </D2LogicalModel:alertCLocation> [1]
   <D2LogicalModel:offsetDistance> D2LogicalModel:OffsetDistance </D2LogicalModel:offsetDistance> [1]
   <D2LogicalModel:alertCMethod4SecondaryPointLocationExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:alertCMethod4SecondaryPointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AlertCMethod4SecondaryPointLocation">
   <xs:sequence>
      <xs:element name="alertCLocation" type="D2LogicalModel:AlertCLocation"/>
      <xs:element name="offsetDistance" type="D2LogicalModel:OffsetDistance"/>
      <xs:element name="alertCMethod4SecondaryPointLocationExtension" type="D2LogicalModel:_ExtensionType"
      minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AlertCPoint

Super-types:	None
Sub-types:	• AlertCMethod2Point (by extension) • AlertCMethod4Point (by extension)

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

XML Instance Representation

```
<...>
   <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: AxleFlowValue

Super-types:	DataValue < **AxleFlowValue** (by extension)

Sub-types:	None

Name	AxleFlowValue
Abstract	no
Documentation	A measured or calculated value of the flow rate of vehicle axles.

XML Instance Representation

```
<...
 accuracy="D2LogicalModel:Percentage [0..1] ?"
 computationalMethod="D2LogicalModel:ComputationMethodEnum [0..1] ?"
 numberOfIncompleteInputs="D2LogicalModel:NonNegativeInteger [0..1] ?"
 numberOfInputValuesUsed="D2LogicalModel:NonNegativeInteger [0..1] ?"
 smoothingFactor="D2LogicalModel:Float [0..1] ?"
 standardDeviation="D2LogicalModel:Float [0..1] ?"
 supplierCalculatedDataQuality="D2LogicalModel:Percentage [0..1] ?">
   <D2LogicalModel:dataError> D2LogicalModel:Boolean </D2LogicalModel:dataError> [0..1] ?
   <D2LogicalModel:reasonForDataError> D2LogicalModel:MultilingualString </D2LogicalModel:reasonForDataError> [0..1]
   ?
   <D2LogicalModel:dataValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:dataValueExtension> [0..1]
   <D2LogicalModel:axleFlowRate> D2LogicalModel:AxlesPerHour </D2LogicalModel:axleFlowRate> [1] ?
   <D2LogicalModel:axleFlowValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:axleFlowValueExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AxleFlowValue">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:DataValue">
         <xs:sequence>
            <xs:element name="axleFlowRate" type="D2LogicalModel:AxlesPerHour" minOccurs="1" maxOccurs="1"/>
            <xs:element name="axleFlowValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: ConcentrationOfVehiclesValue

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

Name	ConcentrationOfVehiclesValue
Abstract	no
Documentation	A measured or calculated value of the concentration of vehicles on a unit stretch of road in a given direction.

XML Instance Representation

```
<...
 accuracy="D2LogicalModel:Percentage [0..1] ?"
 computationalMethod="D2LogicalModel:ComputationMethodEnum [0..1] ?"
 numberOfIncompleteInputs="D2LogicalModel:NonNegativeInteger [0..1] ?"
 numberOfInputValuesUsed="D2LogicalModel:NonNegativeInteger [0..1] ?"
 smoothingFactor="D2LogicalModel:Float [0..1] ?"
 standardDeviation="D2LogicalModel:Float [0..1] ?"
 supplierCalculatedDataQuality="D2LogicalModel:Percentage [0..1] ?">
   <D2LogicalModel:dataError> D2LogicalModel:Boolean </D2LogicalModel:dataError> [0..1] ?
   <D2LogicalModel:reasonForDataError> D2LogicalModel:MultilingualString </D2LogicalModel:reasonForDataError> [0..1]
   ?
   <D2LogicalModel:dataValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:dataValueExtension> [0..1]
   <D2LogicalModel:concentrationOfVehicles> D2LogicalModel:ConcentrationVehiclesPerKilometre
   </D2LogicalModel:concentrationOfVehicles> [1] ?
   <D2LogicalModel:concentrationOfVehiclesValueExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:concentrationOfVehiclesValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ConcentrationOfVehiclesValue">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:DataValue">
         <xs:sequence>
            <xs:element name="concentrationOfVehicles" type="D2LogicalModel:ConcentrationVehiclesPerKilometre"
            minOccurs="1" maxOccurs="1"/>
            <xs:element name="concentrationOfVehiclesValueExtension" type="D2LogicalModel:_ExtensionType"
            minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</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: DataValue

Super-types:	None
Sub-types:	• AxleFlowValue (by extension) • ConcentrationOfVehiclesValue (by extension) • DateTimeValue (by extension) • DurationValue (by extension) • OccupancyChangeValue (by extension) • PcuFlowValue (by extension) • TrafficStatusValue (by extension) • VehicleCountValue (by extension) • VehicleFlowValue (by extension)

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

XML Instance Representation

```
<...
 accuracy="D2LogicalModel:Percentage [0..1] ?"
 computationalMethod="D2LogicalModel:ComputationMethodEnum [0..1] ?"
 numberOfIncompleteInputs="D2LogicalModel:NonNegativeInteger [0..1] ?"
 numberOfInputValuesUsed="D2LogicalModel:NonNegativeInteger [0..1] ?"
 smoothingFactor="D2LogicalModel:Float [0..1] ?"
 standardDeviation="D2LogicalModel:Float [0..1] ?"
 supplierCalculatedDataQuality="D2LogicalModel:Percentage [0..1] ?">
   <D2LogicalModel:dataError> D2LogicalModel:Boolean </D2LogicalModel:dataError> [0..1] ?
   <D2LogicalModel:reasonForDataError> D2LogicalModel:MultilingualString </D2LogicalModel:reasonForDataError> [0..1]
   ?
   <D2LogicalModel:dataValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:dataValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DataValue" abstract="true">
   <xs:sequence>
      <xs:element name="dataError" type="D2LogicalModel:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="reasonForDataError" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="dataValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
   <xs:attribute name="accuracy" type="D2LogicalModel:Percentage" use="optional"/>
   <xs:attribute name="computationalMethod" type="D2LogicalModel:ComputationMethodEnum" use="optional"/>
   <xs:attribute name="numberOfIncompleteInputs" type="D2LogicalModel:NonNegativeInteger" use="optional"/>
   <xs:attribute name="numberOfInputValuesUsed" type="D2LogicalModel:NonNegativeInteger" use="optional"/>
   <xs:attribute name="smoothingFactor" type="D2LogicalModel:Float" use="optional"/>
   <xs:attribute name="standardDeviation" type="D2LogicalModel:Float" use="optional"/>
   <xs:attribute name="supplierCalculatedDataQuality" type="D2LogicalModel:Percentage" use="optional"/>
</xs:complexType>
```

top

Complex Type: DateTimeValue

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

Name	DateTimeValue
Abstract	no
Documentation	A measured or calculated value of an instance in time.

XML Instance Representation

```
<...
 accuracy="D2LogicalModel:Percentage [0..1] ?"
 computationalMethod="D2LogicalModel:ComputationMethodEnum [0..1] ?"
```

```
 numberOfIncompleteInputs="D2LogicalModel:NonNegativeInteger [0..1] ?"
 numberOfInputValuesUsed="D2LogicalModel:NonNegativeInteger [0..1] ?"
 smoothingFactor="D2LogicalModel:Float [0..1] ?"
 standardDeviation="D2LogicalModel:Float [0..1] ?"
 supplierCalculatedDataQuality="D2LogicalModel:Percentage [0..1] ?">
   <D2LogicalModel:dataError> D2LogicalModel:Boolean </D2LogicalModel:dataError> [0..1] ?
   <D2LogicalModel:reasonForDataError> D2LogicalModel:MultilingualString </D2LogicalModel:reasonForDataError> [0..1]
   ?
   <D2LogicalModel:dataValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:dataValueExtension> [0..1]
   <D2LogicalModel:dateTime> D2LogicalModel:DateTime </D2LogicalModel:dateTime> [1] ?
   <D2LogicalModel:dateTimeValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:dateTimeValueExtension>
   [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="DateTimeValue">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:DataValue">
         <xs:sequence>
            <xs:element name="dateTime" type="D2LogicalModel:DateTime" minOccurs="1" maxOccurs="1"/>
            <xs:element name="dateTimeValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: DistanceAlongLinearElement

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

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

XML Instance Representation

```
<.../>
   <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: 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

```
<.../>
   <D2LogicalModel:distanceAlongLinearElementExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:distanceAlongLinearElementExtension> [0..1]
   <D2LogicalModel:distanceAlong> D2LogicalModel:MetresAsFloat </D2LogicalModel:distanceAlong> [1] ?
   <D2LogicalModel:fromReferent> D2LogicalModel:Referent </D2LogicalModel:fromReferent> [1] ?
   <D2LogicalModel:towardsReferent> D2LogicalModel:Referent </D2LogicalModel:towardsReferent> [0..1] ?
   <D2LogicalModel:distanceFromLinearElementReferentExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:distanceFromLinearElementReferentExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="DistanceFromLinearElementReferent">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:DistanceAlongLinearElement">
         <xs:sequence>
            <xs:element name="distanceAlong" type="D2LogicalModel:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
            <xs:element name="fromReferent" type="D2LogicalModel:Referent"/>
            <xs:element name="towardsReferent" type="D2LogicalModel:Referent" minOccurs="0"/>
            <xs:element name="distanceFromLinearElementReferentExtension" type="D2LogicalModel:_ExtensionType"
            minOccurs="0"/>
         </xs:sequence>
```

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

top

Complex Type: DistanceFromLinearElementStart

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

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

XML Instance Representation

```
<...>
  <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: DurationValue

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

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

XML Instance Representation

```
<...
 accuracy="D2LogicalModel:Percentage [0..1] ?"
 computationalMethod="D2LogicalModel:ComputationMethodEnum [0..1] ?"
 numberOfIncompleteInputs="D2LogicalModel:NonNegativeInteger [0..1] ?"
 numberOfInputValuesUsed="D2LogicalModel:NonNegativeInteger [0..1] ?"
 smoothingFactor="D2LogicalModel:Float [0..1] ?"
 standardDeviation="D2LogicalModel:Float [0..1] ?"
 supplierCalculatedDataQuality="D2LogicalModel:Percentage [0..1] ?">
  <D2LogicalModel:dataError> D2LogicalModel:Boolean </D2LogicalModel:dataError> [0..1] ?
  <D2LogicalModel:reasonForDataError> D2LogicalModel:MultilingualString </D2LogicalModel:reasonForDataError> [0..1]
  ?
  <D2LogicalModel:dataValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:dataValueExtension> [0..1]
  <D2LogicalModel:duration> D2LogicalModel:Seconds </D2LogicalModel:duration> [1] ?
  <D2LogicalModel:durationValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:durationValueExtension>
  [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DurationValue">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DataValue">
      <xs:sequence>
        <xs:element name="duration" type="D2LogicalModel:Seconds" minOccurs="1" maxOccurs="1"/>
        <xs:element name="durationValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: ElaboratedDataFault

Super-types:	Fault < **ElaboratedDataFault** (by extension)
Sub-types:	None

Name	ElaboratedDataFault

Abstract	no
Documentation	Details of a fault which is being reported for the related elaborated data.

XML Instance Representation

```
<...>
   <D2LogicalModel:faultIdentifier> D2LogicalModel:String </D2LogicalModel:faultIdentifier> [0..1] ?
   <D2LogicalModel:faultDescription> D2LogicalModel:String </D2LogicalModel:faultDescription> [0..1] ?
   <D2LogicalModel:faultCreationTime> D2LogicalModel:DateTime </D2LogicalModel:faultCreationTime> [0..1] ?
   <D2LogicalModel:faultLastUpdateTime> D2LogicalModel:DateTime </D2LogicalModel:faultLastUpdateTime> [1] ?
   <D2LogicalModel:faultSeverity> D2LogicalModel:FaultSeverityEnum </D2LogicalModel:faultSeverity> [0..1] ?
   <D2LogicalModel:faultExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:faultExtension> [0..1]
   <D2LogicalModel:elaboratedDataFault> D2LogicalModel:ElaboratedDataFaultEnum </D2LogicalModel:elaboratedDataFault>
   [1] ?
   <D2LogicalModel:elaboratedDataFaultExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:elaboratedDataFaultExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ElaboratedDataFault">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:Fault">
         <xs:sequence>
            <xs:element name="elaboratedDataFault" type="D2LogicalModel:ElaboratedDataFaultEnum" minOccurs="1"
            maxOccurs="1"/>
            <xs:element name="elaboratedDataFaultExtension" 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: Fault

Super-types:	None
Sub-types:	• ElaboratedDataFault (by extension) • MeasurementEquipmentFault (by extension)

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

XML Instance Representation

```
<...>
   <D2LogicalModel:faultIdentifier> D2LogicalModel:String </D2LogicalModel:faultIdentifier> [0..1] ?
   <D2LogicalModel:faultDescription> D2LogicalModel:String </D2LogicalModel:faultDescription> [0..1] ?
   <D2LogicalModel:faultCreationTime> D2LogicalModel:DateTime </D2LogicalModel:faultCreationTime> [0..1] ?
   <D2LogicalModel:faultLastUpdateTime> D2LogicalModel:DateTime </D2LogicalModel:faultLastUpdateTime> [1] ?
   <D2LogicalModel:faultSeverity> D2LogicalModel:FaultSeverityEnum </D2LogicalModel:faultSeverity> [0..1] ?
   <D2LogicalModel:faultExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:faultExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Fault">
   <xs:sequence>
      <xs:element name="faultIdentifier" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="faultDescription" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="faultCreationTime" type="D2LogicalModel:DateTime" minOccurs="0" maxOccurs="1"/>
      <xs:element name="faultLastUpdateTime" type="D2LogicalModel:DateTime" minOccurs="1" maxOccurs="1"/>
      <xs:element name="faultSeverity" type="D2LogicalModel:FaultSeverityEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="faultExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
```

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

top

Complex Type: GroupOfLocations

Super-types:	None

Sub-types:	• Location (by extension)
	  ◦ NetworkLocation (by extension)
	  ▪ Linear (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: Junction

Super-types:	None
Sub-types:	None

Name	Junction
Abstract	no
Documentation	Junction (on a highway), can also be an interchange or if applicable also a motorway service station (see junctionClassification).

XML Instance Representation

```
<...>
   <D2LogicalModel:junctionClassification> D2LogicalModel:JunctionClassificationEnum
   </D2LogicalModel:junctionClassification> [0..1] ?
   <D2LogicalModel:junctionName> D2LogicalModel:MultilingualString </D2LogicalModel:junctionName> [1] ?
   <D2LogicalModel:junctionNumber> D2LogicalModel:String </D2LogicalModel:junctionNumber> [0..1] ?
   <D2LogicalModel:motorway> D2LogicalModel:Road </D2LogicalModel:motorway> [0..1] ?
   <D2LogicalModel:destinationMotorway> D2LogicalModel:Road </D2LogicalModel:destinationMotorway> [0..*] ?
   <D2LogicalModel:junctionExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:junctionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Junction">
   <xs:sequence>
      <xs:element name="junctionClassification" type="D2LogicalModel:JunctionClassificationEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="junctionName" type="D2LogicalModel:MultilingualString" minOccurs="1" maxOccurs="1"/>
      <xs:element name="junctionNumber" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="motorway" type="D2LogicalModel:Road" minOccurs="0"/>
      <xs:element name="destinationMotorway" type="D2LogicalModel:Road" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="junctionExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: Linear

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

Name	Linear
Abstract	no
Documentation	A linear section along a single road with optional directionality defined between two points on the same road.

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:tpegLinearLocation> D2LogicalModel:TpegLinearLocation </D2LogicalModel:tpegLinearLocation> [0..1]
   <D2LogicalModel:alertCLinear> D2LogicalModel:AlertCLinear </D2LogicalModel:alertCLinear> [0..1]
   <D2LogicalModel:linearWithinLinearElement> D2LogicalModel:LinearWithinLinearElement
   </D2LogicalModel:linearWithinLinearElement> [0..1]
   <D2LogicalModel:linearExtension> D2LogicalModel:_LinearExtensionType </D2LogicalModel:linearExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Linear">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:NetworkLocation">
         <xs:sequence>
            <xs:element name="tpegLinearLocation" type="D2LogicalModel:TpegLinearLocation" minOccurs="0"/>
            <xs:element name="alertCLinear" type="D2LogicalModel:AlertCLinear" minOccurs="0"/>
            <xs:element name="linearWithinLinearElement" type="D2LogicalModel:LinearWithinLinearElement"
            minOccurs="0"/>
            <xs:element name="linearExtension" type="D2LogicalModel:_LinearExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: LinearElement

Super-types:	None
Sub-types:	• LinearElementByCode (by extension) • LinearElementByPoints (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:roadNumber> D2LogicalModel:String </D2LogicalModel:roadNumber> [0..1] ?
   <D2LogicalModel:linearElementReferenceModel> D2LogicalModel:String </D2LogicalModel:linearElementReferenceModel>
   [0..1] ?
   <D2LogicalModel:linearElementReferenceModelVersion> D2LogicalModel:String
   </D2LogicalModel:linearElementReferenceModelVersion> [0..1] ?
   <D2LogicalModel:linearElementNature> D2LogicalModel:LinearElementNatureEnum </D2LogicalModel:linearElementNature>
   [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="roadNumber" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="linearElementReferenceModel" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="linearElementReferenceModelVersion" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="linearElementNature" type="D2LogicalModel:LinearElementNatureEnum" 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:roadNumber> D2LogicalModel:String </D2LogicalModel:roadNumber> [0..1] ?
   <D2LogicalModel:linearElementReferenceModel> D2LogicalModel:String </D2LogicalModel:linearElementReferenceModel>
   [0..1] ?
   <D2LogicalModel:linearElementReferenceModelVersion> D2LogicalModel:String
   </D2LogicalModel:linearElementReferenceModelVersion> [0..1] ?
   <D2LogicalModel:linearElementNature> D2LogicalModel:LinearElementNatureEnum </D2LogicalModel:linearElementNature>
   [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: 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

```
<...>
   <D2LogicalModel:roadName> D2LogicalModel:MultilingualString </D2LogicalModel:roadName> [0..1] ?
   <D2LogicalModel:roadNumber> D2LogicalModel:String </D2LogicalModel:roadNumber> [0..1] ?
   <D2LogicalModel:linearElementReferenceModel> D2LogicalModel:String </D2LogicalModel:linearElementReferenceModel>
   [0..1] ?
   <D2LogicalModel:linearElementReferenceModelVersion> D2LogicalModel:String
   </D2LogicalModel:linearElementReferenceModelVersion> [0..1] ?
   <D2LogicalModel:linearElementNature> D2LogicalModel:LinearElementNatureEnum </D2LogicalModel:linearElementNature>
   [0..1] ?
   <D2LogicalModel:linearElementExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:linearElementExtension>
   [0..1]
   <D2LogicalModel:startPointOfLinearElement> D2LogicalModel:Referent </D2LogicalModel:startPointOfLinearElement> [1]
   ?
   <D2LogicalModel:intermediatePointOnLinearElement> D2LogicalModel:_IntermediatePointOnLinearElement
   </D2LogicalModel:intermediatePointOnLinearElement> [0..*] ?
   <D2LogicalModel:endPointOfLinearElement> D2LogicalModel:Referent </D2LogicalModel:endPointOfLinearElement> [1] ?
   <D2LogicalModel:linearElementByPointsExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:linearElementByPointsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearElementByPoints">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:LinearElement">
         <xs:sequence>
            <xs:element name="startPointOfLinearElement" type="D2LogicalModel:Referent"/>
            <xs:element name="intermediatePointOnLinearElement" type="D2LogicalModel:_IntermediatePointOnLinearElement"
            minOccurs="0" maxOccurs="unbounded"/>
            <xs:element name="endPointOfLinearElement" type="D2LogicalModel:Referent"/>
            <xs:element name="linearElementByPointsExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: LinearWithinLinearElement

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```
<...>
   <D2LogicalModel:administrativeAreaOfLinearSection> D2LogicalModel:MultilingualString
   </D2LogicalModel:administrativeAreaOfLinearSection> [0..1] ?
   <D2LogicalModel:directionBoundOnLinearSection> D2LogicalModel:DirectionEnum
   </D2LogicalModel:directionBoundOnLinearSection> [0..1] ?
   <D2LogicalModel:directionRelativeOnLinearSection> D2LogicalModel:LinearReferencingDirectionEnum
   </D2LogicalModel:directionRelativeOnLinearSection> [0..1] ?
   <D2LogicalModel:heightGradeOfLinearSection> D2LogicalModel:HeightGradeEnum
   </D2LogicalModel:heightGradeOfLinearSection> [0..1] ?
   <D2LogicalModel:linearElement> D2LogicalModel:LinearElement </D2LogicalModel:linearElement> [1]
   <D2LogicalModel:fromPoint> D2LogicalModel:DistanceAlongLinearElement </D2LogicalModel:fromPoint> [1] ?
   <D2LogicalModel:toPoint> D2LogicalModel:DistanceAlongLinearElement </D2LogicalModel:toPoint> [1] ?
   <D2LogicalModel:linearWithinLinearElementExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:linearWithinLinearElementExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="LinearWithinLinearElement">
   <xs:sequence>
      <xs:element name="administrativeAreaOfLinearSection" type="D2LogicalModel:MultilingualString" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="directionBoundOnLinearSection" type="D2LogicalModel:DirectionEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="directionRelativeOnLinearSection" type="D2LogicalModel:LinearReferencingDirectionEnum"
      minOccurs="0" maxOccurs="1"/>
      <xs:element name="heightGradeOfLinearSection" type="D2LogicalModel:HeightGradeEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="linearElement" type="D2LogicalModel:LinearElement"/>
      <xs:element name="fromPoint" type="D2LogicalModel:DistanceAlongLinearElement"/>
      <xs:element name="toPoint" type="D2LogicalModel:DistanceAlongLinearElement"/>
      <xs:element name="linearWithinLinearElementExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: Location

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

- NetworkLocation (by extension)
  - Linear (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: MeasurementEquipmentFault

Super-types:	Fault < **MeasurementEquipmentFault** (by extension)
Sub-types:	None

Name	MeasurementEquipmentFault
Abstract	no
Documentation	Details of a fault which is being reported for the related measurement equipment.

XML Instance Representation

```
<...>
   <D2LogicalModel:faultIdentifier> D2LogicalModel:String </D2LogicalModel:faultIdentifier> [0..1] ?
   <D2LogicalModel:faultDescription> D2LogicalModel:String </D2LogicalModel:faultDescription> [0..1] ?
   <D2LogicalModel:faultCreationTime> D2LogicalModel:DateTime </D2LogicalModel:faultCreationTime> [0..1] ?
   <D2LogicalModel:faultLastUpdateTime> D2LogicalModel:DateTime </D2LogicalModel:faultLastUpdateTime> [1] ?
   <D2LogicalModel:faultSeverity> D2LogicalModel:FaultSeverityEnum </D2LogicalModel:faultSeverity> [0..1] ?
   <D2LogicalModel:faultExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:faultExtension> [0..1]
   <D2LogicalModel:measurementEquipmentFault> D2LogicalModel:MeasurementEquipmentFaultEnum
   </D2LogicalModel:measurementEquipmentFault> [1] ?
   <D2LogicalModel:measurementEquipmentFaultExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:measurementEquipmentFaultExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="MeasurementEquipmentFault">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:Fault">
         <xs:sequence>
            <xs:element name="measurementEquipmentFault" type="D2LogicalModel:MeasurementEquipmentFaultEnum"
            minOccurs="1" maxOccurs="1"/>
            <xs:element name="measurementEquipmentFaultExtension" 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:	• Linear (by extension) • 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: OccupancyChangeValue

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

Name	OccupancyChangeValue
Abstract	no
Documentation	A measured or calculated value of change of occupied parking spaces expressed as integer.

XML Instance Representation

```
<...
 accuracy="D2LogicalModel:Percentage [0..1] ?"
 computationalMethod="D2LogicalModel:ComputationMethodEnum [0..1] ?"
```

```
 numberOfIncompleteInputs="D2LogicalModel:NonNegativeInteger [0..1] ?"
 numberOfInputValuesUsed="D2LogicalModel:NonNegativeInteger [0..1] ?"
 smoothingFactor="D2LogicalModel:Float [0..1] ?"
 standardDeviation="D2LogicalModel:Float [0..1] ?"
 supplierCalculatedDataQuality="D2LogicalModel:Percentage [0..1] ?">
   <D2LogicalModel:dataError> D2LogicalModel:Boolean </D2LogicalModel:dataError> [0..1] ?
   <D2LogicalModel:reasonForDataError> D2LogicalModel:MultilingualString </D2LogicalModel:reasonForDataError> [0..1]
   ?
   <D2LogicalModel:dataValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:dataValueExtension> [0..1]
   <D2LogicalModel:occupancyChange> D2LogicalModel:Integer </D2LogicalModel:occupancyChange> [1] ?
   <D2LogicalModel:occupancyChangeValueExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:occupancyChangeValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OccupancyChangeValue">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:DataValue">
         <xs:sequence>
            <xs:element name="occupancyChange" type="D2LogicalModel:Integer" minOccurs="1" maxOccurs="1"/>
            <xs:element name="occupancyChangeValueExtension" 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: OpenlrExtendedLinear

Super-types:	None
Sub-types:	None

Name	OpenlrExtendedLinear
Abstract	no
Documentation	Extension class for OpenLR Line location reference

XML Instance Representation

```
<...>
   <D2LogicalModel:firstDirection> D2LogicalModel:OpenlrLineLocationReference </D2LogicalModel:firstDirection> [1] ?
   <D2LogicalModel:oppositeDirection> D2LogicalModel:OpenlrLineLocationReference </D2LogicalModel:oppositeDirection>
   [0..1] ?
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrExtendedLinear">
   <xs:sequence>
      <xs:element name="firstDirection" type="D2LogicalModel:OpenlrLineLocationReference"/>
      <xs:element name="oppositeDirection" type="D2LogicalModel:OpenlrLineLocationReference" 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: OpenlrLineLocationReference

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```
<...>
  <D2LogicalModel:openlrLocationReferencePoint> D2LogicalModel:OpenlrLocationReferencePoint
  </D2LogicalModel:openlrLocationReferencePoint> [1..*]
  <D2LogicalModel:openlrLastLocationReferencePoint> D2LogicalModel:OpenlrLastLocationReferencePoint
  </D2LogicalModel:openlrLastLocationReferencePoint> [1]
  <D2LogicalModel:openlrOffsets> D2LogicalModel:OpenlrOffsets </D2LogicalModel:openlrOffsets> [0..1]
  <D2LogicalModel:openlrLineLocationReferenceExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:openlrLineLocationReferenceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrLineLocationReference">
  <xs:sequence>
    <xs:element name="openlrLocationReferencePoint" type="D2LogicalModel:OpenlrLocationReferencePoint"
    maxOccurs="unbounded"/>
    <xs:element name="openlrLastLocationReferencePoint" type="D2LogicalModel:OpenlrLastLocationReferencePoint"/>
    <xs:element name="openlrOffsets" type="D2LogicalModel:OpenlrOffsets" minOccurs="0"/>
    <xs:element name="openlrLineLocationReferenceExtension" 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: 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

```
<...>
   <D2LogicalModel:openlrPositiveOffset> D2LogicalModel:MetresAsNonNegativeInteger
   </D2LogicalModel:openlrPositiveOffset> [0..1] ?
   <D2LogicalModel:openlrNegativeOffset> D2LogicalModel:MetresAsNonNegativeInteger
   </D2LogicalModel:openlrNegativeOffset> [0..1] ?
   <D2LogicalModel:openlrOffsetsExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:openlrOffsetsExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OpenlrOffsets">
   <xs:sequence>
      <xs:element name="openlrPositiveOffset" type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="openlrNegativeOffset" type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="openlrOffsetsExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</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:	• VmsTablePublication (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: PcuFlowValue

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

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

XML Instance Representation

```
<...
 accuracy="D2LogicalModel:Percentage [0..1] ?"
 computationalMethod="D2LogicalModel:ComputationMethodEnum [0..1] ?"
 numberOfIncompleteInputs="D2LogicalModel:NonNegativeInteger [0..1] ?"
 numberOfInputValuesUsed="D2LogicalModel:NonNegativeInteger [0..1] ?"
 smoothingFactor="D2LogicalModel:Float [0..1] ?"
 standardDeviation="D2LogicalModel:Float [0..1] ?"
 supplierCalculatedDataQuality="D2LogicalModel:Percentage [0..1] ?">
   <D2LogicalModel:dataError> D2LogicalModel:Boolean </D2LogicalModel:dataError> [0..1] ?
   <D2LogicalModel:reasonForDataError> D2LogicalModel:MultilingualString </D2LogicalModel:reasonForDataError> [0..1]
   ?
   <D2LogicalModel:dataValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:dataValueExtension> [0..1]
   <D2LogicalModel:pcuFlowRate> D2LogicalModel:PassengerCarUnitsPerHour </D2LogicalModel:pcuFlowRate> [1] ?
   <D2LogicalModel:pcuFlowValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:pcuFlowValueExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PcuFlowValue">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:DataValue">
         <xs:sequence>
            <xs:element name="pcuFlowRate" type="D2LogicalModel:PassengerCarUnitsPerHour" minOccurs="1" maxOccurs="1"/>
            <xs:element name="pcuFlowValueExtension" type="D2LogicalModel:_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

```
<...>
   <D2LogicalModel:distanceAlongLinearElementExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:distanceAlongLinearElementExtension> [0..1]
   <D2LogicalModel:percentageDistanceAlong> D2LogicalModel:Percentage </D2LogicalModel:percentageDistanceAlong> [1] ?
   <D2LogicalModel:percentageDistanceAlongLinearElementExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:percentageDistanceAlongLinearElementExtension> [0..1]
</...>
```

Schema Component Representation

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

```
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DistanceAlongLinearElement">
      <xs:sequence>
        <xs:element name="percentageDistanceAlong" type="D2LogicalModel:Percentage" minOccurs="1" maxOccurs="1"/>
        <xs:element name="percentageDistanceAlongLinearElementExtension" type="D2LogicalModel:_ExtensionType"
        minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</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:tpegPointLocation> D2LogicalModel:TpegPointLocation </D2LogicalModel:tpegPointLocation> [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="tpegPointLocation" type="D2LogicalModel:TpegPointLocation" minOccurs="0"/>
        <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:administrativeAreaOfPoint> D2LogicalModel:MultilingualString
  </D2LogicalModel:administrativeAreaOfPoint> [0..1] ?
  <D2LogicalModel:directionBoundAtPoint> D2LogicalModel:DirectionEnum </D2LogicalModel:directionBoundAtPoint> [0..1]
  ?
  <D2LogicalModel:directionRelativeAtPoint> D2LogicalModel:LinearReferencingDirectionEnum
  </D2LogicalModel:directionRelativeAtPoint> [0..1] ?
  <D2LogicalModel:heightGradeOfPoint> D2LogicalModel:HeightGradeEnum </D2LogicalModel:heightGradeOfPoint> [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="administrativeAreaOfPoint" type="D2LogicalModel:MultilingualString" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="directionBoundAtPoint" type="D2LogicalModel:DirectionEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="directionRelativeAtPoint" type="D2LogicalModel:LinearReferencingDirectionEnum" minOccurs="0"
    maxOccurs="1"/>
```

```
    <xs:element name="heightGradeOfPoint" type="D2LogicalModel:HeightGradeEnum" 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: PointExtended

Super-types:	None
Sub-types:	None

Name	PointExtended
Abstract	no
Documentation	Extension point for 'Point' to support the description of junctions (and other alternative point descriptions).

XML Instance Representation

```
<...>
  <D2LogicalModel:description> D2LogicalModel:MultilingualString </D2LogicalModel:description> [0..1] ?
  <D2LogicalModel:junction> D2LogicalModel:Junction </D2LogicalModel:junction> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PointExtended">
  <xs:sequence>
    <xs:element name="description" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
```

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

top

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 markerpost), an intersection etc.

XML Instance Representation

```
<...>
  <D2LogicalModel:referentIdentifier> D2LogicalModel:String </D2LogicalModel:referentIdentifier> [1] ?
  <D2LogicalModel:referentName> D2LogicalModel:String </D2LogicalModel:referentName> [0..1] ?
  <D2LogicalModel:referentType> D2LogicalModel:ReferentTypeEnum </D2LogicalModel:referentType> [1] ?
  <D2LogicalModel:referentDescription> D2LogicalModel:MultilingualString </D2LogicalModel:referentDescription>
  [0..1] ?
  <D2LogicalModel:pointCoordinates> D2LogicalModel:PointCoordinates </D2LogicalModel:pointCoordinates> [0..1]
  <D2LogicalModel:referentExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:referentExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Referent">
  <xs:sequence>
    <xs:element name="referentIdentifier" type="D2LogicalModel:String" minOccurs="1" maxOccurs="1"/>
    <xs:element name="referentName" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="referentType" type="D2LogicalModel:ReferentTypeEnum" minOccurs="1" maxOccurs="1"/>
    <xs:element name="referentDescription" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="pointCoordinates" type="D2LogicalModel:PointCoordinates" minOccurs="0"/>
    <xs:element name="referentExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: Road

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

Name	Road
Abstract	no
Documentation	Identification of a road by its name, identifier, type ...

XML Instance Representation

```
<...>
  <D2LogicalModel:nameOfRoad> D2LogicalModel:MultilingualString </D2LogicalModel:nameOfRoad> [0..1] ?
  <D2LogicalModel:roadIdentifier> D2LogicalModel:MultilingualString </D2LogicalModel:roadIdentifier> [0..1] ?
  <D2LogicalModel:typeOfRoad> D2LogicalModel:RoadTypeEnum </D2LogicalModel:typeOfRoad> [0..1] ?
  <D2LogicalModel:roadDestination> D2LogicalModel:MultilingualString </D2LogicalModel:roadDestination> [0..*] ?
  <D2LogicalModel:roadOrigination> D2LogicalModel:MultilingualString </D2LogicalModel:roadOrigination> [0..*] ?
  <D2LogicalModel:distanceToThisRoad> D2LogicalModel:MetresAsNonNegativeInteger </D2LogicalModel:distanceToThisRoad>
  [0..1] ?
  <D2LogicalModel:roadExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:roadExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Road">
  <xs:sequence>
    <xs:element name="nameOfRoad" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="roadIdentifier" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="typeOfRoad" type="D2LogicalModel:RoadTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="roadDestination" type="D2LogicalModel:MultilingualString" minOccurs="0"
    maxOccurs="unbounded"/>
    <xs:element name="roadOrigination" type="D2LogicalModel:MultilingualString" minOccurs="0"
    maxOccurs="unbounded"/>
    <xs:element name="distanceToThisRoad" type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="roadExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: RoadNode

Super-types:	Road < **RoadNode** (by extension)
Sub-types:	None

Name	RoadNode

Abstract	no
Documentation	A road node as part of the specialised road identified by the name of a junctionon on this road.

XML Instance Representation

```
<...>
   <D2LogicalModel:nameOfRoad> D2LogicalModel:MultilingualString </D2LogicalModel:nameOfRoad> [0..1] ?
   <D2LogicalModel:roadIdentifier> D2LogicalModel:MultilingualString </D2LogicalModel:roadIdentifier> [0..1] ?
   <D2LogicalModel:typeOfRoad> D2LogicalModel:RoadTypeEnum </D2LogicalModel:typeOfRoad> [0..1] ?
   <D2LogicalModel:roadDestination> D2LogicalModel:MultilingualString </D2LogicalModel:roadDestination> [0..*] ?
   <D2LogicalModel:roadOrigination> D2LogicalModel:MultilingualString </D2LogicalModel:roadOrigination> [0..*] ?
   <D2LogicalModel:distanceToThisRoad> D2LogicalModel:MetresAsNonNegativeInteger </D2LogicalModel:distanceToThisRoad>
   [0..1] ?
   <D2LogicalModel:roadExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:roadExtension> [0..1]
   <D2LogicalModel:junctionName> D2LogicalModel:MultilingualString </D2LogicalModel:junctionName> [1] ?
   <D2LogicalModel:roadNodeExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:roadNodeExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RoadNode">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:Road">
         <xs:sequence>
            <xs:element name="junctionName" type="D2LogicalModel:MultilingualString" minOccurs="1" maxOccurs="1"/>
            <xs:element name="roadNodeExtension" 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>
   [1..*] ?
   <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="1"
      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: TpegDescriptor

Super-types:	None

Sub-types:	• 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

```
<...>
   <D2LogicalModel:descriptor> D2LogicalModel:MultilingualString </D2LogicalModel:descriptor> [1] ?
   <D2LogicalModel:tpegDescriptorExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:tpegDescriptorExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegDescriptor" abstract="true">
  <xs:sequence>
    <xs:element name="descriptor" type="D2LogicalModel:MultilingualString" minOccurs="1" maxOccurs="1"/>
    <xs:element name="tpegDescriptorExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: TpegFramedPoint

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

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

XML Instance Representation

```
<...>
  <D2LogicalModel:tpegDirection> D2LogicalModel:DirectionEnum </D2LogicalModel:tpegDirection> [1] ?
  <D2LogicalModel:tpegPointLocationExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:tpegPointLocationExtension> [0..1]
  <D2LogicalModel:tpegFramedPointLocationType> D2LogicalModel:TpegLoc01FramedPointLocationSubtypeEnum
  </D2LogicalModel:tpegFramedPointLocationType> [1] ?
  <D2LogicalModel:framedPoint> D2LogicalModel:TpegNonJunctionPoint </D2LogicalModel:framedPoint> [1] ?
  <D2LogicalModel:to> D2LogicalModel:TpegPoint </D2LogicalModel:to> [1] ?
  <D2LogicalModel:from> D2LogicalModel:TpegPoint </D2LogicalModel:from> [1] ?
  <D2LogicalModel:tpegFramedPointExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:tpegFramedPointExtension>
  [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegFramedPoint">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TpegPointLocation">
      <xs:sequence>
        <xs:element name="tpegFramedPointLocationType"
        type="D2LogicalModel:TpegLoc01FramedPointLocationSubtypeEnum" minOccurs="1" maxOccurs="1"/>
        <xs:element name="framedPoint" type="D2LogicalModel:TpegNonJunctionPoint"/>
        <xs:element name="to" type="D2LogicalModel:TpegPoint"/>
        <xs:element name="from" type="D2LogicalModel:TpegPoint"/>
        <xs:element name="tpegFramedPointExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TpegIlcPointDescriptor

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

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

XML Instance Representation

```
<...>
  <D2LogicalModel:descriptor> D2LogicalModel:MultilingualString </D2LogicalModel:descriptor> [1] ?
  <D2LogicalModel:tpegDescriptorExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:tpegDescriptorExtension>
  [0..1]
  <D2LogicalModel:tpegPointDescriptorExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:tpegPointDescriptorExtension> [0..1]
  <D2LogicalModel:tpegIlcPointDescriptorType> D2LogicalModel:TpegLoc03IlcPointDescriptorSubtypeEnum
  </D2LogicalModel:tpegIlcPointDescriptorType> [1] ?
  <D2LogicalModel:tpegIlcPointDescriptorExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:tpegIlcPointDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegIlcPointDescriptor">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TpegPointDescriptor">
      <xs:sequence>
        <xs:element name="tpegIlcPointDescriptorType" type="D2LogicalModel:TpegLoc03IlcPointDescriptorSubtypeEnum"
        minOccurs="1" maxOccurs="1"/>
        <xs:element name="tpegIlcPointDescriptorExtension" type="D2LogicalModel:_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

```
<...>
   <D2LogicalModel:tpegPointExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:tpegPointExtension> [0..1]
   <D2LogicalModel:pointCoordinates> D2LogicalModel:PointCoordinates </D2LogicalModel:pointCoordinates> [1]
   <D2LogicalModel:name> D2LogicalModel:TpegJunctionPointDescriptor </D2LogicalModel:name> [0..1] ?
   <D2LogicalModel:ilc> D2LogicalModel:TpegIlcPointDescriptor </D2LogicalModel:ilc> [1..3] ?
   <D2LogicalModel:otherName> D2LogicalModel:TpegOtherPointDescriptor </D2LogicalModel:otherName> [0..*] ?
   <D2LogicalModel:tpegJunctionExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:tpegJunctionExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegJunction">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:TpegPoint">
         <xs:sequence>
            <xs:element name="pointCoordinates" type="D2LogicalModel:PointCoordinates"/>
            <xs:element name="name" type="D2LogicalModel:TpegJunctionPointDescriptor" minOccurs="0"/>
            <xs:element name="ilc" type="D2LogicalModel:TpegIlcPointDescriptor" maxOccurs="3"/>
            <xs:element name="otherName" type="D2LogicalModel:TpegOtherPointDescriptor" minOccurs="0"
            maxOccurs="unbounded"/>
            <xs:element name="tpegJunctionExtension" type="D2LogicalModel:_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

```
<...>
   <D2LogicalModel:descriptor> D2LogicalModel:MultilingualString </D2LogicalModel:descriptor> [1] ?
   <D2LogicalModel:tpegDescriptorExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:tpegDescriptorExtension>
   [0..1]
   <D2LogicalModel:tpegPointDescriptorExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:tpegPointDescriptorExtension> [0..1]
   <D2LogicalModel:tpegJunctionPointDescriptorType> D2LogicalModel:TpegLoc03JunctionPointDescriptorSubtypeEnum
   </D2LogicalModel:tpegJunctionPointDescriptorType> [1] ?
   <D2LogicalModel:tpegJunctionPointDescriptorExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:tpegJunctionPointDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegJunctionPointDescriptor">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:TpegPointDescriptor">
         <xs:sequence>
            <xs:element name="tpegJunctionPointDescriptorType"
            type="D2LogicalModel:TpegLoc03JunctionPointDescriptorSubtypeEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="tpegJunctionPointDescriptorExtension" type="D2LogicalModel:_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

```
<...>
   <D2LogicalModel:tpegDirection> D2LogicalModel:DirectionEnum </D2LogicalModel:tpegDirection> [1] ?
```

```
   <D2LogicalModel:tpegLinearLocationType> D2LogicalModel:TpegLoc01LinearLocationSubtypeEnum
   </D2LogicalModel:tpegLinearLocationType> [1] ?
   <D2LogicalModel:to> D2LogicalModel:TpegPoint </D2LogicalModel:to> [1] ?
   <D2LogicalModel:from> D2LogicalModel:TpegPoint </D2LogicalModel:from> [1] ?
   <D2LogicalModel:tpegLinearLocationExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:tpegLinearLocationExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="TpegLinearLocation">
   <xs:sequence>
      <xs:element name="tpegDirection" type="D2LogicalModel:DirectionEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="tpegLinearLocationType" type="D2LogicalModel:TpegLoc01LinearLocationSubtypeEnum" minOccurs="1"
      maxOccurs="1"/>
      <xs:element name="to" type="D2LogicalModel:TpegPoint"/>
      <xs:element name="from" type="D2LogicalModel:TpegPoint"/>
      <xs:element name="tpegLinearLocationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</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

```
<.../>
   <D2LogicalModel:tpegPointExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:tpegPointExtension> [0..1]
   <D2LogicalModel:pointCoordinates> D2LogicalModel:PointCoordinates </D2LogicalModel:pointCoordinates> [1]
   <D2LogicalModel:name> D2LogicalModel:TpegOtherPointDescriptor </D2LogicalModel:name> [1..*] ?
   <D2LogicalModel:tpegNonJunctionPointExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:tpegNonJunctionPointExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="TpegNonJunctionPoint">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:TpegPoint">
         <xs:sequence>
            <xs:element name="pointCoordinates" type="D2LogicalModel:PointCoordinates"/>
            <xs:element name="name" type="D2LogicalModel:TpegOtherPointDescriptor" maxOccurs="unbounded"/>
            <xs:element name="tpegNonJunctionPointExtension" type="D2LogicalModel:_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

```
<.../>
   <D2LogicalModel:descriptor> D2LogicalModel:MultilingualString </D2LogicalModel:descriptor> [1] ?
   <D2LogicalModel:tpegDescriptorExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:tpegDescriptorExtension>
   [0..1]
   <D2LogicalModel:tpegPointDescriptorExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:tpegPointDescriptorExtension> [0..1]
   <D2LogicalModel:tpegOtherPointDescriptorType> D2LogicalModel:TpegLoc03OtherPointDescriptorSubtypeEnum
   </D2LogicalModel:tpegOtherPointDescriptorType> [1] ?
   <D2LogicalModel:tpegOtherPointDescriptorExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:tpegOtherPointDescriptorExtension> [0..1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="TpegOtherPointDescriptor">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:TpegPointDescriptor">
         <xs:sequence>
            <xs:element name="tpegOtherPointDescriptorType"
            type="D2LogicalModel:TpegLoc03OtherPointDescriptorSubtypeEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="tpegOtherPointDescriptorExtension" type="D2LogicalModel:_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

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

Schema Component Representation

```
<xs:complexType name="TpegPoint" abstract="true">
   <xs:sequence>
      <xs:element name="tpegPointExtension" type="D2LogicalModel:_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

```
<...>
   <D2LogicalModel:descriptor> D2LogicalModel:MultilingualString </D2LogicalModel:descriptor> [1] ?
   <D2LogicalModel:tpegDescriptorExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:tpegDescriptorExtension>
   [0..1]
   <D2LogicalModel:tpegPointDescriptorExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:tpegPointDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegPointDescriptor" abstract="true">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:TpegDescriptor">
         <xs:sequence>
            <xs:element name="tpegPointDescriptorExtension" type="D2LogicalModel:_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

```
<...>
   <D2LogicalModel:tpegDirection> D2LogicalModel:DirectionEnum </D2LogicalModel:tpegDirection> [1] ?
   <D2LogicalModel:tpegPointLocationExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:tpegPointLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegPointLocation" abstract="true">
   <xs:sequence>
      <xs:element name="tpegDirection" type="D2LogicalModel:DirectionEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="tpegPointLocationExtension" type="D2LogicalModel:_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

```
<...>
   <D2LogicalModel:tpegDirection> D2LogicalModel:DirectionEnum </D2LogicalModel:tpegDirection> [1] ?
   <D2LogicalModel:tpegPointLocationExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:tpegPointLocationExtension> [0..1]
   <D2LogicalModel:tpegSimplePointLocationType> D2LogicalModel:TpegLoc01SimplePointLocationSubtypeEnum
   </D2LogicalModel:tpegSimplePointLocationType> [1] ?
   <D2LogicalModel:point> D2LogicalModel:TpegPoint </D2LogicalModel:point> [1] ?
   <D2LogicalModel:tpegSimplePointExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:tpegSimplePointExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegSimplePoint">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:TpegPointLocation">
         <xs:sequence>
            <xs:element name="tpegSimplePointLocationType"
            type="D2LogicalModel:TpegLoc01SimplePointLocationSubtypeEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="point" type="D2LogicalModel:TpegPoint"/>
            <xs:element name="tpegSimplePointExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: TrafficStatusValue

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

Name	TrafficStatusValue
Abstract	no
Documentation	A measured or calculated value of the status of traffic conditions on a section of road in a specified direction.

XML Instance Representation

```
<...
 accuracy="D2LogicalModel:Percentage [0..1] ?"
 computationalMethod="D2LogicalModel:ComputationMethodEnum [0..1] ?"
 numberOfIncompleteInputs="D2LogicalModel:NonNegativeInteger [0..1] ?"
 numberOfInputValuesUsed="D2LogicalModel:NonNegativeInteger [0..1] ?"
 smoothingFactor="D2LogicalModel:Float [0..1] ?"
 standardDeviation="D2LogicalModel:Float [0..1] ?"
 supplierCalculatedDataQuality="D2LogicalModel:Percentage [0..1] ?">
   <D2LogicalModel:dataError> D2LogicalModel:Boolean </D2LogicalModel:dataError> [0..1] ?
   <D2LogicalModel:reasonForDataError> D2LogicalModel:MultilingualString </D2LogicalModel:reasonForDataError> [0..1]
   ?
   <D2LogicalModel:dataValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:dataValueExtension> [0..1]
   <D2LogicalModel:trafficStatusValue> D2LogicalModel:TrafficStatusEnum </D2LogicalModel:trafficStatusValue> [1] ?
   <D2LogicalModel:trafficStatusValueExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:trafficStatusValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficStatusValue">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:DataValue">
         <xs:sequence>
            <xs:element name="trafficStatusValue" type="D2LogicalModel:TrafficStatusEnum" minOccurs="1" maxOccurs="1"/>
            <xs:element name="trafficStatusValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</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

```
<...>
   <D2LogicalModel:urlLinkAddress> D2LogicalModel:Url </D2LogicalModel:urlLinkAddress> [1] ?
   <D2LogicalModel:urlLinkDescription> D2LogicalModel:MultilingualString </D2LogicalModel:urlLinkDescription> [0..1]
   ?
   <D2LogicalModel:urlLinkType> D2LogicalModel:UrlLinkTypeEnum </D2LogicalModel:urlLinkType> [0..1] ?
   <D2LogicalModel:urlLinkExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:urlLinkExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="UrlLink">
   <xs:sequence>
      <xs:element name="urlLinkAddress" type="D2LogicalModel:Url" minOccurs="1" maxOccurs="1"/>
      <xs:element name="urlLinkDescription" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="urlLinkType" type="D2LogicalModel:UrlLinkTypeEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="urlLinkExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: VehicleCountValue

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

Name	VehicleCountValue
Abstract	no
Documentation	A measured or calculated value of absolute count of vehicles within a specified period of time expressed as non negative integer.

XML Instance Representation

```
<...
 accuracy="D2LogicalModel:Percentage [0..1] ?"
 computationalMethod="D2LogicalModel:ComputationMethodEnum [0..1] ?"
 numberOfIncompleteInputs="D2LogicalModel:NonNegativeInteger [0..1] ?"
 numberOfInputValuesUsed="D2LogicalModel:NonNegativeInteger [0..1] ?"
 smoothingFactor="D2LogicalModel:Float [0..1] ?"
 standardDeviation="D2LogicalModel:Float [0..1] ?"
 supplierCalculatedDataQuality="D2LogicalModel:Percentage [0..1] ?">
   <D2LogicalModel:dataError> D2LogicalModel:Boolean </D2LogicalModel:dataError> [0..1] ?
   <D2LogicalModel:reasonForDataError> D2LogicalModel:MultilingualString </D2LogicalModel:reasonForDataError> [0..1]
   ?
   <D2LogicalModel:dataValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:dataValueExtension> [0..1]
   <D2LogicalModel:vehicleCount> D2LogicalModel:NonNegativeInteger </D2LogicalModel:vehicleCount> [1] ?
   <D2LogicalModel:vehicleCountValueExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:vehicleCountValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VehicleCountValue">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:DataValue">
         <xs:sequence>
            <xs:element name="vehicleCount" type="D2LogicalModel:NonNegativeInteger" minOccurs="1" maxOccurs="1"/>
            <xs:element name="vehicleCountValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: VehicleFlowValue

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

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

XML Instance Representation

```
<...
 accuracy="D2LogicalModel:Percentage [0..1] ?"
 computationalMethod="D2LogicalModel:ComputationMethodEnum [0..1] ?"
 numberOfIncompleteInputs="D2LogicalModel:NonNegativeInteger [0..1] ?"
 numberOfInputValuesUsed="D2LogicalModel:NonNegativeInteger [0..1] ?"
 smoothingFactor="D2LogicalModel:Float [0..1] ?"
 standardDeviation="D2LogicalModel:Float [0..1] ?"
 supplierCalculatedDataQuality="D2LogicalModel:Percentage [0..1] ?">
   <D2LogicalModel:dataError> D2LogicalModel:Boolean </D2LogicalModel:dataError> [0..1] ?
```

```
   <D2LogicalModel:reasonForDataError> D2LogicalModel:MultilingualString </D2LogicalModel:reasonForDataError> [0..1]
   ?
   <D2LogicalModel:dataValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:dataValueExtension> [0..1]
   <D2LogicalModel:vehicleFlowRate> D2LogicalModel:VehiclesPerHour </D2LogicalModel:vehicleFlowRate> [1] ?
   <D2LogicalModel:vehicleFlowValueExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:vehicleFlowValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VehicleFlowValue">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:DataValue">
         <xs:sequence>
            <xs:element name="vehicleFlowRate" type="D2LogicalModel:VehiclesPerHour" minOccurs="1" maxOccurs="1"/>
            <xs:element name="vehicleFlowValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: VmsManagedLogicalLocation

Super-types:	None
Sub-types:	None

Name	VmsManagedLogicalLocation
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

```
<...>
   <D2LogicalModel:managedLogicalLocation> D2LogicalModel:MultilingualString </D2LogicalModel:managedLogicalLocation>
   [0..1] ?
   <D2LogicalModel:distanceFromLogicalLocation> D2LogicalModel:MetresAsNonNegativeInteger
   </D2LogicalModel:distanceFromLogicalLocation> [0..1] ?
   <D2LogicalModel:managedLocation> D2LogicalModel:Location </D2LogicalModel:managedLocation> [0..1] ?
   <D2LogicalModel:vmsManagedLogicalLocationExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:vmsManagedLogicalLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsManagedLogicalLocation">
   <xs:sequence>
      <xs:element name="managedLogicalLocation" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="distanceFromLogicalLocation" type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="managedLocation" type="D2LogicalModel:Location" minOccurs="0"/>
      <xs:element name="vmsManagedLogicalLocationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: VmsPictogramDisplayCharacteristics

Super-types:	None
Sub-types:	None

Name	VmsPictogramDisplayCharacteristics
Abstract	no
Documentation	Characteristics specific to the pictogram display area(s) on the VMS where pictogramDisplayAreaIndex indicates which pictogram area it relates to.

XML Instance Representation

```
<...>
   <D2LogicalModel:pictogramLanternsPresent> D2LogicalModel:Boolean </D2LogicalModel:pictogramLanternsPresent> [0..1]
   ?
   <D2LogicalModel:pictogramSequencingCapable> D2LogicalModel:Boolean </D2LogicalModel:pictogramSequencingCapable>
   [0..1] ?
   <D2LogicalModel:pictogramPixelsAcross> D2LogicalModel:NonNegativeInteger </D2LogicalModel:pictogramPixelsAcross>
   [0..1] ?
   <D2LogicalModel:pictogramPixelsDown> D2LogicalModel:NonNegativeInteger </D2LogicalModel:pictogramPixelsDown>
   [0..1] ?
   <D2LogicalModel:pictogramDisplayHeight> D2LogicalModel:MetresAsFloat </D2LogicalModel:pictogramDisplayHeight>
   [0..1] ?
   <D2LogicalModel:pictogramDisplayWidth> D2LogicalModel:MetresAsFloat </D2LogicalModel:pictogramDisplayWidth> [0..1]
   ?
   <D2LogicalModel:pictogramCodeListIdentifier> D2LogicalModel:String </D2LogicalModel:pictogramCodeListIdentifier>
   [0..1] ?
   <D2LogicalModel:maxPictogramLuminanceLevel> D2LogicalModel:NonNegativeInteger
   </D2LogicalModel:maxPictogramLuminanceLevel> [0..1] ?
   <D2LogicalModel:pictogramNumberOfColours> D2LogicalModel:NonNegativeInteger
   </D2LogicalModel:pictogramNumberOfColours> [0..1] ?
   <D2LogicalModel:maxNumberOfSequentialPictograms> D2LogicalModel:NonNegativeInteger
   </D2LogicalModel:maxNumberOfSequentialPictograms> [0..1] ?
   <D2LogicalModel:pictogramPositionAbsolute> D2LogicalModel:PositionAbsoluteEnum
   </D2LogicalModel:pictogramPositionAbsolute> [0..1] ?
```

```
   <D2LogicalModel:pictogramPositionX> D2LogicalModel:MetresAsFloat </D2LogicalModel:pictogramPositionX> [0..1] ?
   <D2LogicalModel:pictogramPositionY> D2LogicalModel:MetresAsFloat </D2LogicalModel:pictogramPositionY> [0..1] ?
   <D2LogicalModel:pictogramPositionRelativeToText> D2LogicalModel:PositionRelativeEnum
   </D2LogicalModel:pictogramPositionRelativeToText> [0..1] ?
   <D2LogicalModel:vmsSupplementaryPanelCharacteristics> D2LogicalModel:VmsSupplementaryPanelCharacteristics
   </D2LogicalModel:vmsSupplementaryPanelCharacteristics> [0..1]
   <D2LogicalModel:vmsPictogramDisplayCharacteristicsExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:vmsPictogramDisplayCharacteristicsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsPictogramDisplayCharacteristics">
   <xs:sequence>
      <xs:element name="pictogramLanternsPresent" type="D2LogicalModel:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pictogramSequencingCapable" type="D2LogicalModel:Boolean" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pictogramPixelsAcross" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pictogramPixelsDown" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pictogramDisplayHeight" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pictogramDisplayWidth" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pictogramCodeListIdentifier" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="maxPictogramLuminanceLevel" type="D2LogicalModel:NonNegativeInteger" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="pictogramNumberOfColours" type="D2LogicalModel:NonNegativeInteger" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="maxNumberOfSequentialPictograms" type="D2LogicalModel:NonNegativeInteger" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="pictogramPositionAbsolute" type="D2LogicalModel:PositionAbsoluteEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="pictogramPositionX" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pictogramPositionY" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pictogramPositionRelativeToText" type="D2LogicalModel:PositionRelativeEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="vmsSupplementaryPanelCharacteristics"
      type="D2LogicalModel:VmsSupplementaryPanelCharacteristics" minOccurs="0"/>
      <xs:element name="vmsPictogramDisplayCharacteristicsExtension" type="D2LogicalModel:_ExtensionType"
      minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: VmsRecord

Super-types:	None
Sub-types:	None

Name	VmsRecord
Abstract	no
Documentation	A sub-record in the VMS Unit table defining the characteristics of a single variable message sign that is controlled by a specific VMS unit. Locations are on or adjacent to the road network but may be updated over time if relating to a mobile VMS unit.

XML Instance Representation

```
<...>
   <D2LogicalModel:vmsDescription> D2LogicalModel:MultilingualString </D2LogicalModel:vmsDescription> [0..1] ?
   <D2LogicalModel:vmsOwner> D2LogicalModel:MultilingualString </D2LogicalModel:vmsOwner> [0..1] ?
   <D2LogicalModel:vmsPhysicalMounting> D2LogicalModel:PhysicalMountingEnum </D2LogicalModel:vmsPhysicalMounting>
   [0..1] ?
   <D2LogicalModel:vmsType> D2LogicalModel:VmsTypeEnum </D2LogicalModel:vmsType> [0..1] ?
   <D2LogicalModel:vmsTypeCode> D2LogicalModel:String </D2LogicalModel:vmsTypeCode> [0..1] ?
   <D2LogicalModel:numberOfPictogramDisplayAreas> D2LogicalModel:NonNegativeInteger
   </D2LogicalModel:numberOfPictogramDisplayAreas> [0..1] ?
   <D2LogicalModel:dynamicallyConfigurableDisplayAreas> D2LogicalModel:Boolean
   </D2LogicalModel:dynamicallyConfigurableDisplayAreas> [0..1] ?
   <D2LogicalModel:vmsDisplayHeight> D2LogicalModel:MetresAsFloat </D2LogicalModel:vmsDisplayHeight> [0..1] ?
   <D2LogicalModel:vmsDisplayWidth> D2LogicalModel:MetresAsFloat </D2LogicalModel:vmsDisplayWidth> [0..1] ?
   <D2LogicalModel:vmsHeightAboveRoadway> D2LogicalModel:MetresAsFloat </D2LogicalModel:vmsHeightAboveRoadway> [0..1]
   ?
   <D2LogicalModel:vmsTextDisplayCharacteristics> D2LogicalModel:VmsTextDisplayCharacteristics
   </D2LogicalModel:vmsTextDisplayCharacteristics> [0..1]
   <D2LogicalModel:vmsPictogramDisplayCharacteristics>
   D2LogicalModel:_VmsRecordPictogramDisplayAreaIndexVmsPictogramDisplayCharacteristics
   </D2LogicalModel:vmsPictogramDisplayCharacteristics> [0..*]
   <D2LogicalModel:vmsLocation> D2LogicalModel:Location </D2LogicalModel:vmsLocation> [0..1] ?
   <D2LogicalModel:vmsManagedLogicalLocation> D2LogicalModel:VmsManagedLogicalLocation
   </D2LogicalModel:vmsManagedLogicalLocation> [0..1]
   <D2LogicalModel:backgroundImageUrl> D2LogicalModel:UrlLink </D2LogicalModel:backgroundImageUrl> [0..1] ?
   <D2LogicalModel:vmsRecordExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:vmsRecordExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsRecord">
   <xs:sequence>
      <xs:element name="vmsDescription" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsOwner" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsPhysicalMounting" type="D2LogicalModel:PhysicalMountingEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsType" type="D2LogicalModel:VmsTypeEnum" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsTypeCode" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="numberOfPictogramDisplayAreas" type="D2LogicalModel:NonNegativeInteger" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="dynamicallyConfigurableDisplayAreas" type="D2LogicalModel:Boolean" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="vmsDisplayHeight" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsDisplayWidth" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsHeightAboveRoadway" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
```

```
    <xs:element name="vmsTextDisplayCharacteristics" type="D2LogicalModel:VmsTextDisplayCharacteristics"
    minOccurs="0"/>
    <xs:element name="vmsPictogramDisplayCharacteristics"
    type="D2LogicalModel:_VmsRecordPictogramDisplayAreaIndexVmsPictogramDisplayCharacteristics" minOccurs="0"
    maxOccurs="unbounded"/>
    <xs:element name="vmsLocation" type="D2LogicalModel:Location" minOccurs="0"/>
    <xs:element name="vmsManagedLogicalLocation" type="D2LogicalModel:VmsManagedLogicalLocation" minOccurs="0"/>
    <xs:element name="backgroundImageUrl" type="D2LogicalModel:UrlLink" minOccurs="0"/>
    <xs:element name="vmsRecordExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: VmsSupplementaryPanelCharacteristics

Super-types:	None
Sub-types:	None

Name	VmsSupplementaryPanelCharacteristics
Abstract	no
Documentation	Characteristics of a panel which may display details (sometimes regulatory in nature) that are supplemental to the main pictogram, comprising an additional line of text and/or a pictogram.

XML Instance Representation

```
<...>
  <D2LogicalModel:supplementaryPictogramCodeListIdentifier> D2LogicalModel:String
  </D2LogicalModel:supplementaryPictogramCodeListIdentifier> [0..1] ?
  <D2LogicalModel:supplementaryPanelPixelsAcross> D2LogicalModel:NonNegativeInteger
  </D2LogicalModel:supplementaryPanelPixelsAcross> [0..1] ?
  <D2LogicalModel:supplementaryPanelPixelsDown> D2LogicalModel:NonNegativeInteger
  </D2LogicalModel:supplementaryPanelPixelsDown> [0..1] ?
  <D2LogicalModel:supplementaryPanelDisplayHeight> D2LogicalModel:MetresAsFloat
  </D2LogicalModel:supplementaryPanelDisplayHeight> [0..1] ?
  <D2LogicalModel:supplementaryPanelDisplayWidth> D2LogicalModel:MetresAsFloat
  </D2LogicalModel:supplementaryPanelDisplayWidth> [0..1] ?
  <D2LogicalModel:supplementaryPanelPositionX> D2LogicalModel:MetresAsFloat
  </D2LogicalModel:supplementaryPanelPositionX> [0..1] ?
  <D2LogicalModel:supplementaryPanelPositionY> D2LogicalModel:MetresAsFloat
  </D2LogicalModel:supplementaryPanelPositionY> [0..1] ?
  <D2LogicalModel:relativePositionToPictogramArea> D2LogicalModel:PositionRelativeEnum
  </D2LogicalModel:relativePositionToPictogramArea> [0..1] ?
  <D2LogicalModel:vmsSupplementaryPanelCharacteristicsExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:vmsSupplementaryPanelCharacteristicsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsSupplementaryPanelCharacteristics">
  <xs:sequence>
    <xs:element name="supplementaryPictogramCodeListIdentifier" type="D2LogicalModel:String" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="supplementaryPanelPixelsAcross" type="D2LogicalModel:NonNegativeInteger" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="supplementaryPanelPixelsDown" type="D2LogicalModel:NonNegativeInteger" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="supplementaryPanelDisplayHeight" type="D2LogicalModel:MetresAsFloat" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="supplementaryPanelDisplayWidth" type="D2LogicalModel:MetresAsFloat" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="supplementaryPanelPositionX" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="supplementaryPanelPositionY" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="relativePositionToPictogramArea" type="D2LogicalModel:PositionRelativeEnum" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="vmsSupplementaryPanelCharacteristicsExtension" type="D2LogicalModel:_ExtensionType"
    minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: VmsTablePublication

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

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

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:vmsUnitTable> D2LogicalModel:VmsUnitTable </D2LogicalModel:vmsUnitTable> [1..*]
  <D2LogicalModel:vmsTablePublicationExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:vmsTablePublicationExtension> [0..1]
```

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

Schema Component Representation

```
<xs:complexType name="VmsTablePublication">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:PayloadPublication">
      <xs:sequence>
        <xs:element name="headerInformation" type="D2LogicalModel:HeaderInformation"/>
        <xs:element name="vmsUnitTable" type="D2LogicalModel:VmsUnitTable" maxOccurs="unbounded"/>
        <xs:element name="vmsTablePublicationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: VmsTextDisplayCharacteristics

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```
<...>
  <D2LogicalModel:textLanternsPresent> D2LogicalModel:Boolean </D2LogicalModel:textLanternsPresent> [0..1] ?
  <D2LogicalModel:textPageSequencingCapable> D2LogicalModel:Boolean </D2LogicalModel:textPageSequencingCapable>
  [0..1] ?
  <D2LogicalModel:textPixelsAcross> D2LogicalModel:NonNegativeInteger </D2LogicalModel:textPixelsAcross> [0..1] ?
  <D2LogicalModel:textPixelsDown> D2LogicalModel:NonNegativeInteger </D2LogicalModel:textPixelsDown> [0..1] ?
  <D2LogicalModel:textDisplayHeight> D2LogicalModel:MetresAsFloat </D2LogicalModel:textDisplayHeight> [0..1] ?
  <D2LogicalModel:textDisplayWidth> D2LogicalModel:MetresAsFloat </D2LogicalModel:textDisplayWidth> [0..1] ?
  <D2LogicalModel:maxNumberOfCharacters> D2LogicalModel:NonNegativeInteger </D2LogicalModel:maxNumberOfCharacters>
  [0..1] ?
  <D2LogicalModel:maxNumberOfRows> D2LogicalModel:NonNegativeInteger </D2LogicalModel:maxNumberOfRows> [0..1] ?
  <D2LogicalModel:legendCodeListIdentifier> D2LogicalModel:String </D2LogicalModel:legendCodeListIdentifier> [0..1]
  ?
  <D2LogicalModel:maxFontHeight> D2LogicalModel:NonNegativeInteger </D2LogicalModel:maxFontHeight> [0..1] ?
  <D2LogicalModel:minFontHeight> D2LogicalModel:NonNegativeInteger </D2LogicalModel:minFontHeight> [0..1] ?
  <D2LogicalModel:maxFontWidth> D2LogicalModel:NonNegativeInteger </D2LogicalModel:maxFontWidth> [0..1] ?
  <D2LogicalModel:minFontWidth> D2LogicalModel:NonNegativeInteger </D2LogicalModel:minFontWidth> [0..1] ?
  <D2LogicalModel:maxFontSpacing> D2LogicalModel:NonNegativeInteger </D2LogicalModel:maxFontSpacing> [0..1] ?
  <D2LogicalModel:minFontSpacing> D2LogicalModel:NonNegativeInteger </D2LogicalModel:minFontSpacing> [0..1] ?
  <D2LogicalModel:maxTextLuminanceLevel> D2LogicalModel:NonNegativeInteger </D2LogicalModel:maxTextLuminanceLevel>
  [0..1] ?
  <D2LogicalModel:maxNumberOfSequentialPages> D2LogicalModel:NonNegativeInteger
  </D2LogicalModel:maxNumberOfSequentialPages> [0..1] ?
  <D2LogicalModel:textPositionAbsolute> D2LogicalModel:PositionAbsoluteEnum </D2LogicalModel:textPositionAbsolute>
  [0..1] ?
  <D2LogicalModel:textPositionX> D2LogicalModel:MetresAsFloat </D2LogicalModel:textPositionX> [0..1] ?
  <D2LogicalModel:textPositionY> D2LogicalModel:MetresAsFloat </D2LogicalModel:textPositionY> [0..1] ?
  <D2LogicalModel:vmsTextDisplayCharacteristicsExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:vmsTextDisplayCharacteristicsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsTextDisplayCharacteristics">
  <xs:sequence>
    <xs:element name="textLanternsPresent" type="D2LogicalModel:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="textPageSequencingCapable" type="D2LogicalModel:Boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="textPixelsAcross" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="textPixelsDown" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="textDisplayHeight" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="textDisplayWidth" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="maxNumberOfCharacters" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="maxNumberOfRows" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="legendCodeListIdentifier" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="maxFontHeight" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="minFontHeight" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="maxFontWidth" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="minFontWidth" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="maxFontSpacing" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="minFontSpacing" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="maxTextLuminanceLevel" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
    <xs:element name="maxNumberOfSequentialPages" type="D2LogicalModel:NonNegativeInteger" minOccurs="0"
    maxOccurs="1"/>
    <xs:element name="textPositionAbsolute" type="D2LogicalModel:PositionAbsoluteEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="textPositionX" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="textPositionY" type="D2LogicalModel:MetresAsFloat" minOccurs="0" maxOccurs="1"/>
    <xs:element name="vmsTextDisplayCharacteristicsExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: VmsUnitRecord

Super-types:	None
Sub-types:	None

Name	VmsUnitRecord
Abstract	no
Documentation	A versioned single VMS unit entry/record in the VMS Unit table that defines the characteristics of the VMS unit.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <D2LogicalModel:numberOfVms> D2LogicalModel:NonNegativeInteger </D2LogicalModel:numberOfVms> [0..1] ?
   <D2LogicalModel:vmsUnitIdentifier> D2LogicalModel:String </D2LogicalModel:vmsUnitIdentifier> [0..1] ?
   <D2LogicalModel:vmsUnitIPAddress> D2LogicalModel:String </D2LogicalModel:vmsUnitIPAddress> [0..1] ?
   <D2LogicalModel:vmsUnitElectronicAddress> D2LogicalModel:String </D2LogicalModel:vmsUnitElectronicAddress> [0..1]
   ?
   <D2LogicalModel:vmsRecord> D2LogicalModel:_VmsUnitRecordVmsIndexVmsRecord </D2LogicalModel:vmsRecord> [0..*]
   <D2LogicalModel:vmsUnitRecordExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:vmsUnitRecordExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsUnitRecord">
   <xs:sequence>
      <xs:element name="numberOfVms" type="D2LogicalModel:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsUnitIdentifier" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsUnitIPAddress" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsUnitElectronicAddress" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsRecord" type="D2LogicalModel:_VmsUnitRecordVmsIndexVmsRecord" minOccurs="0"
      maxOccurs="unbounded"/>
      <xs:element name="vmsUnitRecordExtension" 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:complexType>
```

top

Complex Type: VmsUnitTable

Super-types:	None
Sub-types:	None

Name	VmsUnitTable
Abstract	no
Documentation	A versioned VMS Unit Table comprising a number of data records, each record defining the characteristics of a specific deployed variable message sign unit.

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <D2LogicalModel:vmsUnitTableIdentification> D2LogicalModel:String </D2LogicalModel:vmsUnitTableIdentification>
   [0..1] ?
   <D2LogicalModel:vmsUnitRecord> D2LogicalModel:VmsUnitRecord </D2LogicalModel:vmsUnitRecord> [1..*]
   <D2LogicalModel:vmsUnitTableExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:vmsUnitTableExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VmsUnitTable">
   <xs:sequence>
      <xs:element name="vmsUnitTableIdentification" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="vmsUnitRecord" type="D2LogicalModel:VmsUnitRecord" maxOccurs="unbounded"/>
      <xs:element name="vmsUnitTableExtension" 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: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: _IntermediatePointOnLinearElement

Super-types:	None
Sub-types:	None

Name _IntermediatePointOnLinearElement

Abstract no

XML Instance Representation

```
<...
 index="xs:int [1]">
   <D2LogicalModel:referent> D2LogicalModel:Referent </D2LogicalModel:referent> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_IntermediatePointOnLinearElement">
   <xs:sequence>
      <xs:element name="referent" type="D2LogicalModel:Referent" minOccurs="1" maxOccurs="1"/>
   </xs:sequence>
   <xs:attribute name="index" type="xs:int" use="required"/>
</xs:complexType>
```

top

Complex Type: _LinearExtensionType

Super-types:	None
Sub-types:	None

Name _LinearExtensionType

Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="_LinearExtensionType">
   <xs:sequence>
      <xs:element name="openlrExtendedLinear" type="D2LogicalModel:OpenlrExtendedLinear" minOccurs="0"/>
      <xs:any namespace="##other" 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]
   <D2LogicalModel:pointExtended> D2LogicalModel:PointExtended </D2LogicalModel:pointExtended> [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:element name="pointExtended" type="D2LogicalModel:PointExtended" minOccurs="0"/>
      <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: _VmsRecordPictogramDisplayAreaIndexVmsPictogramDisplayCharacteristics

Super-types:	None
Sub-types:	None

Name _VmsRecordPictogramDisplayAreaIndexVmsPictogramDisplayCharacteristics

Abstract no

XML Instance Representation

```
<...
 pictogramDisplayAreaIndex="xs:int [1]">
   <D2LogicalModel:vmsPictogramDisplayCharacteristics> D2LogicalModel:VmsPictogramDisplayCharacteristics
   </D2LogicalModel:vmsPictogramDisplayCharacteristics> [1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="_VmsRecordPictogramDisplayAreaIndexVmsPictogramDisplayCharacteristics">
   <xs:sequence>
      <xs:element name="vmsPictogramDisplayCharacteristics" type="D2LogicalModel:VmsPictogramDisplayCharacteristics"
      minOccurs="1" maxOccurs="1"/>
   </xs:sequence>
   <xs:attribute name="pictogramDisplayAreaIndex" type="xs:int" use="required"/>
</xs:complexType>
```

top

Complex Type: _VmsUnitRecordVmsIndexVmsRecord

Super-types:	None
Sub-types:	None

Name _VmsUnitRecordVmsIndexVmsRecord

Abstract no

XML Instance Representation

```
<...
 vmsIndex="xs:int [1]">
   <D2LogicalModel:vmsRecord> D2LogicalModel:VmsRecord </D2LogicalModel:vmsRecord> [1]
</.../>
```

Schema Component Representation

```
<xs:complexType name="_VmsUnitRecordVmsIndexVmsRecord">
   <xs:sequence>
      <xs:element name="vmsRecord" type="D2LogicalModel:VmsRecord" minOccurs="1" maxOccurs="1"/>
   </xs:sequence>
   <xs:attribute name="vmsIndex" type="xs:int" use="required"/>
</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: AxlesPerHour

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

Name AxlesPerHour

Content

- Base XSD Type: nonNegativeInteger

Documentation Vehicle axles per hour.

Schema Component Representation

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

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

Name ComputationMethodEnum

Content

- Base XSD Type: string
- *value* comes from list: {'arithmeticAverageOfSamplesBasedOnAFixedNumberOfSamples'|'arithmeticAverageOfSamplesInATimePeriod'|'harmonicAverageOfSamplesInATin

Documentation Types of computational methods used in deriving data values for data sets.

Schema Component Representation

```
<xs:simpleType name="ComputationMethodEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="arithmeticAverageOfSamplesBasedOnAFixedNumberOfSamples"/>
      <xs:enumeration value="arithmeticAverageOfSamplesInATimePeriod"/>
      <xs:enumeration value="harmonicAverageOfSamplesInATimePeriod"/>
      <xs:enumeration value="medianOfSamplesInATimePeriod"/>
      <xs:enumeration value="movingAverageOfSamples"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ConcentrationVehiclesPerKilometre

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

Name ConcentrationVehiclesPerKilometre

Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

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

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

Name DirectionEnum

Content

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

Documentation List of directions of travel.

Schema Component Representation

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

top

Simple Type: ElaboratedDataFaultEnum

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

Name ElaboratedDataFaultEnum

Content

- Base XSD Type: string
- *value* comes from list: {'intermittentDataValues'|'noDataValuesAvailable'|'spuriousUnreliableDataValues'|'unspecifiedOrUnknownFault'|'other'}

Documentation Types of elaborated data faults.

Schema Component Representation

```
<xs:simpleType name="ElaboratedDataFaultEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="intermittentDataValues"/>
    <xs:enumeration value="noDataValuesAvailable"/>
    <xs:enumeration value="spuriousUnreliableDataValues"/>
    <xs:enumeration value="unspecifiedOrUnknownFault"/>
    <xs:enumeration value="other"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: FaultSeverityEnum

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

Name FaultSeverityEnum

Content

- Base XSD Type: string
- *value* comes from list: {'low'|'medium'|'high'|'unknown'}

Documentation Classification of the severity of faults.

Schema Component Representation

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

```
      <xs:enumeration value="low"/>
      <xs:enumeration value="medium"/>
      <xs:enumeration value="high"/>
      <xs:enumeration value="unknown"/>
    </xs:restriction>
</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 × 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: HeightGradeEnum

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

Name HeightGradeEnum

Content

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

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:restriction>
</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: Integer

Super-types:	xs:integer < **Integer** (by restriction)
Sub-types:	None

Name Integer

Content

- Base XSD Type: integer

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

Schema Component Representation

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

top

Simple Type: JunctionClassificationEnum

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

Name JunctionClassificationEnum

Content

- Base XSD Type: string
- *value* comes from list: {'threeWayInterchange'|'interchange'|'motorwayConnection'|'junction'|'temporaryJunction'|'borderCrossing'|'junctionInOneDirection'|'operationalServic

Documentation Explicit type of a junction.

Schema Component Representation

```
<xs:simpleType name="JunctionClassificationEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="threeWayInterchange"/>
      <xs:enumeration value="interchange"/>
      <xs:enumeration value="motorwayConnection"/>
      <xs:enumeration value="junction"/>
      <xs:enumeration value="temporaryJunction"/>
      <xs:enumeration value="borderCrossing"/>
      <xs:enumeration value="junctionInOneDirection"/>
      <xs:enumeration value="operationalServiceJunction"/>
      <xs:enumeration value="other"/>
   </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: {'emergencyLane'|'leftLane'|'middleLane'|'rightLane'}

Documentation List of descriptors identifying specific lanes.

Schema Component Representation

```
<xs:simpleType name="LaneEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="emergencyLane"/>
      <xs:enumeration value="leftLane"/>
      <xs:enumeration value="middleLane"/>
      <xs:enumeration value="rightLane"/>
   </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: LinearElementNatureEnum

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

Name LinearElementNatureEnum

Content

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

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:restriction>
</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: MeasurementEquipmentFaultEnum

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

Name MeasurementEquipmentFaultEnum

Content

- Base XSD Type: string
- *value* comes from list: {'intermittentDataValues'|'noDataValuesAvailable'|'spuriousUnreliableDataValues'|'unspecifiedOrUnknownFault'|'other'}

Documentation Types of measurement equipment faults.

Schema Component Representation

```
<xs:simpleType name="MeasurementEquipmentFaultEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="intermittentDataValues"/>
      <xs:enumeration value="noDataValuesAvailable"/>
      <xs:enumeration value="spuriousUnreliableDataValues"/>
      <xs:enumeration value="unspecifiedOrUnknownFault"/>
      <xs:enumeration value="other"/>
   </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) • AxlesPerHour (by restriction) • ConcentrationVehiclesPerKilometre (by restriction) • MetresAsNonNegativeInteger (by restriction) • PassengerCarUnitsPerHour (by restriction) • VehiclesPerHour (by restriction)

Name NonNegativeInteger

Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

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

top

Simple Type: 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: PassengerCarUnitsPerHour

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

Name PassengerCarUnitsPerHour

Content

- Base XSD Type: nonNegativeInteger

Documentation Passenger car units per hour.

Schema Component Representation

```
<xs:simpleType name="PassengerCarUnitsPerHour">
  <xs:restriction base="D2LogicalModel: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="D2LogicalModel:Float"/>
</xs:simpleType>
```

top

Simple Type: PhysicalMountingEnum

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

Name PhysicalMountingEnum

Content

- Base XSD Type: string
- *value* comes from list: {'centralReservationMounted'|'gantryMounted'|'overheadBridgeMounted'|'roadsideCantileverMounted'|'roadsideMounted'|'trailerMounted'|'tunnelEntra

Documentation The ways in which equipments such as VMS are mounted or deployed on the road.

Schema Component Representation

```
<xs:simpleType name="PhysicalMountingEnum">
  <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:restriction>
</xs:simpleType>
```

top

Simple Type: PositionAbsoluteEnum

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

Name PositionAbsoluteEnum

Content

- Base XSD Type: string
- *value* comes from list: {'onLeft'|'onRight'|'atTop'|'atBottom'}

Documentation Absolute positions of an item within an alloted space.

Schema Component Representation

```
<xs:simpleType name="PositionAbsoluteEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="onLeft"/>
    <xs:enumeration value="onRight"/>
    <xs:enumeration value="atTop"/>
    <xs:enumeration value="atBottom"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: PositionRelativeEnum

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

Name PositionRelativeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'above'|'below'|'toTheLeft'|'toTheRight'}

Documentation Relative positions of one item to another.

Schema Component Representation

```
<xs:simpleType name="PositionRelativeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="above"/>
    <xs:enumeration value="below"/>
    <xs:enumeration value="toTheLeft"/>
    <xs:enumeration value="toTheRight"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: ReferentTypeEnum

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

Name ReferentTypeEnum

Content

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

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

top

Simple Type: RoadTypeEnum

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

Name RoadTypeEnum

Content

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

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

top

Simple Type: Seconds

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

Name Seconds

Content

- Base XSD Type: float

Documentation Seconds.

Schema Component Representation

```
<xs:simpleType name="Seconds">
   <xs:restriction base="D2LogicalModel:Float"/>
</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: TpegLoc01FramedPointLocationSubtypeEnum

Super-types:	xs:string < **TpegLoc01FramedPointLocationSubtypeEnum** (by restriction)
Sub-types:	None

Name TpegLoc01FramedPointLocationSubtypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'framedPoint'}

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

top

Simple Type: TpegLoc01LinearLocationSubtypeEnum

Super-types:	xs:string < **TpegLoc01LinearLocationSubtypeEnum** (by restriction)
Sub-types:	None

Name TpegLoc01LinearLocationSubtypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'segment'}

Documentation Types of linear location.

Schema Component Representation

```
<xs:simpleType name="TpegLoc01LinearLocationSubtypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="segment"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: TpegLoc01SimplePointLocationSubtypeEnum

Super-types:	xs:string < **TpegLoc01SimplePointLocationSubtypeEnum** (by restriction)
Sub-types:	None

Name TpegLoc01SimplePointLocationSubtypeEnum

Content

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

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

top

Simple Type: TpegLoc03IlcPointDescriptorSubtypeEnum

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

Name TpegLoc03IlcPointDescriptorSubtypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'tpegIlcName1'|'tpegIlcName2'|'tpegIlcName3'}

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

top

Simple Type: TpegLoc03JunctionPointDescriptorSubtypeEnum

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

Name TpegLoc03JunctionPointDescriptorSubtypeEnum

Content

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

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

top

Simple Type: TpegLoc03OtherPointDescriptorSubtypeEnum

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

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

top

Simple Type: TrafficStatusEnum

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

Name TrafficStatusEnum

Content

- Base XSD Type: string
- *value* comes from list: {'impossible'|'congested'|'heavy'|'freeFlow'|'unknown'}

Documentation List of terms used to describe traffic conditions.

Schema Component Representation

```
<xs:simpleType name="TrafficStatusEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="impossible"/>
    <xs:enumeration value="congested"/>
    <xs:enumeration value="heavy"/>
    <xs:enumeration value="freeFlow"/>
    <xs:enumeration value="unknown"/>
  </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

Simple Type: UrlLinkTypeEnum

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

Name UrlLinkTypeEnum

Content

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

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

top

Simple Type: VehiclesPerHour

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

Name VehiclesPerHour

Content

- Base XSD Type: nonNegativeInteger

Documentation Vehicles per hour.

Schema Component Representation

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

top

Simple Type: VmsTypeEnum

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

Name VmsTypeEnum

Content

- Base XSD Type: string

- *value* comes from list: {'colourGraphic'|'continuousSign'|'monochromeGraphic'|'matrixSign'|'other'}

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="continuousSign"/>
    <xs:enumeration value="monochromeGraphic"/>
    <xs:enumeration value="matrixSign"/>
    <xs:enumeration value="other"/>
  </xs:restriction>
</xs:simpleType>
```

top