DARS Geodevices profile v1.0

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Schema Document Properties

Target Namespace	**http://datex2.eu/schema/2/2_0**
Version	2.3
Element and Attribute Namespaces	- Global element and attribute declarations belong to this schema's target namespace. - By default, local element declarations belong to this schema's target namespace. - By default, local attribute declarations have no namespace.

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
D2LogicalModel	**http://datex2.eu/schema/2/2_0**

Schema Component Representation

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

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Global Declarations

Element: d2LogicalModel

Name	d2LogicalModel
Type	D2LogicalModel:D2LogicalModel
Nillable	no

Abstract	no

XML Instance Representation

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

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

Schema Component Representation

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

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

```xml
<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>
```

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

Schema Component Representation

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

Complex Type: AlertCLocation

Super-types:	None
Sub-types:	None

Name	AlertCLocation

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

XML Instance Representation

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

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>
```

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>
```

Complex Type: **AlertCPoint**

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

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

XML Instance Representation

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

Schema Component Representation

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

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>
```

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>
```

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>
```

Complex Type: DataValue

<table>
<tr><td>Super-types:</td><td>None</td></tr>
<tr><td>Sub-types:</td><td></td></tr>
</table>

- 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>
```

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>
```

Complex Type: DistanceAlongLinearElement

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

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

XML Instance Representation

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

Schema Component Representation

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

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>
```

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>
```

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>
```

Complex Type: GroupOfLocations

Super-types:	None
Sub-types:	• Location (by extension)
	○ NetworkLocation (by extension)
	■ Point (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

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

Schema Component Representation

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

Complex Type: InternationalIdentifier

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```
<...>
   <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

```xml
<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>
```

Complex Type: LinearElement

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

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: LinearElementByCode

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

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

XML Instance Representation

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

Schema Component Representation

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

top

Complex Type: Location

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

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

XML Instance Representation

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

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

Schema Component Representation

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

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>
```

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

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

Complex Type: NamedArea

| *Super-types:* | None |
| *Sub-types:* | None |

Name   NamedArea

Abstract   no

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

XML Instance Representation

```
<...>
   <D2LogicalModel:country> D2LogicalModel:CountryEnum
   </D2LogicalModel:country> [0..1] ?
   <D2LogicalModel:nation> D2LogicalModel:MultilingualString
   </D2LogicalModel:nation> [0..1] ?
   <D2LogicalModel:county> D2LogicalModel:MultilingualString
   </D2LogicalModel:county> [0..1] ?
   <D2LogicalModel:areaName> D2LogicalModel:MultilingualString
   </D2LogicalModel:areaName> [0..1] ?
   <D2LogicalModel:policeForceControlArea>
   D2LogicalModel:MultilingualString
   </D2LogicalModel:policeForceControlArea> [0..1] ?
   <D2LogicalModel:roadOperatorControlArea>
   D2LogicalModel:MultilingualString
   </D2LogicalModel:roadOperatorControlArea> [0..1] ?
   <D2LogicalModel:namedAreaExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:namedAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="NamedArea">
   <xs:sequence>
      <xs:element name="country" type="D2LogicalModel:CountryEnum"
      minOccurs="0" maxOccurs="1"/>
      <xs:element name="nation" type="D2LogicalModel:MultilingualString"
      minOccurs="0" maxOccurs="1"/>
      <xs:element name="county" type="D2LogicalModel:MultilingualString"
      minOccurs="0" maxOccurs="1"/>
      <xs:element name="areaName" type="D2LogicalModel:MultilingualString"
      minOccurs="0" maxOccurs="1"/>
      <xs:element name="policeForceControlArea"
      type="D2LogicalModel:MultilingualString" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="roadOperatorControlArea"
      type="D2LogicalModel:MultilingualString" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="namedAreaExtension"
      type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

Complex Type: NetworkLocation

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

Name	NetworkLocation
Abstract	yes
Documentation	The specification of a location on a network (as a point or a linear location).

XML Instance Representation

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

Schema Component Representation

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

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

top

Complex Type: 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>
```

Complex Type: PayloadPublication

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

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

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="PayloadPublication" abstract="true">
```

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

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>
```

Complex Type: Point

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

Name	Point
Abstract	no
Documentation	A single geospatial point.

XML Instance Representation

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

Schema Component Representation

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

Complex Type: PointAlongLinearElement

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```
<...>
   <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="linearElement"
      type="D2LogicalModel:LinearElement"/>
      <xs:element name="distanceAlongLinearElement"
      type="D2LogicalModel:DistanceAlongLinearElement"/>
      <xs:element name="pointAlongLinearElementExtension"
      type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

Complex Type: PointByCoordinates

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

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>
```

Complex Type: PolygonArea

Super-types:	None
Sub-types:	None

Name	PolygonArea
Abstract	no

Documentation	defines points for a closed polygon-shape describing the area

XML Instance Representation

```
<...>
   <D2LogicalModel:sectionName> D2LogicalModel:MultilingualString
   </D2LogicalModel:sectionName> [0..1] ?
   <D2LogicalModel:pointCoordinates>
   D2LogicalModel:_PolygonAreaIndexPointCoordinates
   </D2LogicalModel:pointCoordinates> [0..*]
   <D2LogicalModel:polygonAreaExtension> D2LogicalModel:_ExtensionType
   </D2LogicalModel:polygonAreaExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PolygonArea">
   <xs:sequence>
      <xs:element name="sectionName"
      type="D2LogicalModel:MultilingualString" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="pointCoordinates"
      type="D2LogicalModel:_PolygonAreaIndexPointCoordinates" minOccurs="0"
      maxOccurs="unbounded"/>
      <xs:element name="polygonAreaExtension"
      type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

Complex Type: PredefinedLocation

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

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

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [1]">
   <D2LogicalModel:predefinedLocationContainerExtension>
   D2LogicalModel:_ExtensionType
   </D2LogicalModel:predefinedLocationContainerExtension> [0..1]
   <D2LogicalModel:location> D2LogicalModel:Location
   </D2LogicalModel:location> [1]
   <D2LogicalModel:predefinedLocationExtension>
   D2LogicalModel:_ExtensionType
   </D2LogicalModel:predefinedLocationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PredefinedLocation">
   <xs:complexContent>
      <xs:extension base="D2LogicalModel:PredefinedLocationContainer">
         <xs:sequence>
            <xs:element name="location" type="D2LogicalModel:Location"/>
```

```
                <xs:element name="predefinedLocationExtension"
                type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
        </xs:sequence>
        <xs:attribute name="id" type="xs:string" use="required"/>
        <xs:attribute name="version" type="xs:string" use="required"/>
      </xs:extension>
    </xs:complexContent>
</xs:complexType>
```

Complex Type: **PredefinedLocationContainer**

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

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

XML Instance Representation

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

Schema Component Representation

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

Complex Type: **PredefinedLocationsPublication**

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

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

XML Instance Representation

```
<...
 lang="D2LogicalModel:Language [1] ?">
   <D2LogicalModel:publicationTime> D2LogicalModel:DateTime
   </D2LogicalModel:publicationTime> [1] ?
```

```
<D2LogicalModel:publicationCreator>
D2LogicalModel:InternationalIdentifier
</D2LogicalModel:publicationCreator> [1]
<D2LogicalModel:payloadPublicationExtension>
D2LogicalModel:_ExtensionType
</D2LogicalModel:payloadPublicationExtension> [0..1]
<D2LogicalModel:headerInformation> D2LogicalModel:HeaderInformation
</D2LogicalModel:headerInformation> [1]
<D2LogicalModel:predefinedLocationContainer>
D2LogicalModel:PredefinedLocationContainer
</D2LogicalModel:predefinedLocationContainer> [1..*]
<D2LogicalModel:predefinedLocationsPublicationExtension>
D2LogicalModel:_ExtensionType
</D2LogicalModel:predefinedLocationsPublicationExtension> [0..1]
</...>
```

Schema Component Representation

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

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

```xml
<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>
```

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

```xml
<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>
```

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>
```

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

```xml
<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>
```

Complex Type: **_ExtensionType**

Super-types:	None
Sub-types:	None

Name   _ExtensionType

Abstract   no

XML Instance Representation

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

Schema Component Representation

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

Complex Type: _PolygonAreaIndexPointCoordinates

Super-types:	None
Sub-types:	None

Name	_PolygonAreaIndexPointCoordinates
Abstract	no

XML Instance Representation

```
<...
 index="xs:int [1]">
   <D2LogicalModel:pointCoordinates> D2LogicalModel:PointCoordinates
   </D2LogicalModel:pointCoordinates> [1]
</...>
```

Schema Component Representation

```
<xs:complexType name="_PolygonAreaIndexPointCoordinates">
  <xs:sequence>
    <xs:element name="pointCoordinates"
    type="D2LogicalModel:PointCoordinates" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="index" type="xs:int" use="required"/>
</xs:complexType>
```

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>
```

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>
```

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>
```

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>
```

Simple Type: CarriagewayEnum

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

Name	CarriagewayEnum
Content	• Base XSD Type: string • *value* comes from list: {'entrySlipRoad'|'exitSlipRoad'|'mainCarriageway'}
Documentation	List of descriptors identifying specific carriageway details.

Schema Component Representation

```
<xs:simpleType name="CarriagewayEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="entrySlipRoad"/>
    <xs:enumeration value="exitSlipRoad"/>
    <xs:enumeration value="mainCarriageway"/>
  </xs:restriction>
</xs:simpleType>
```

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'|'arithmeticAverage
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>
```

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>
```

Simple Type: ConfidentialityValueEnum

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

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

Schema Component Representation

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

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

Documentation List of countries.

Schema Component Representation

```xml
<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>
```

Simple Type: DateTime

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

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

Schema Component Representation

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

Simple Type: 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>
```

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'}

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

Schema Component Representation

```xml
<xs:simpleType name="InformationStatusEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="real"/>
   </xs:restriction>
</xs:simpleType>
```

Simple Type: Integer

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

Name   Integer

Content

- Base XSD Type: integer

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

Schema Component Representation

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

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

```xml
<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>
```

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>
```

Simple Type: LocationDescriptorEnum

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

Name	LocationDescriptorEnum
Content	
	• Base XSD Type: string
	• *value* comes from list: {'onConnector'}
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="onConnector"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type: MetresAsFloat

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

Name	MetresAsFloat
Content	
	• Base XSD Type: float

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

Schema Component Representation

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

Simple Type: MetresAsNonNegativeInteger

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

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

Schema Component Representation

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

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>
```

Simple Type: NonNegativeInteger

Super-types:	xs:nonNegativeInteger < **NonNegativeInteger** (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>
```

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>
```

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>
```

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

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

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

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

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>
```

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>
```

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