

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

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
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
Nilable	no
Abstract	no

XML Instance Representation

```
<D2LogicalModel:d2LogicalModel
modelBaseVersion="2 [1]">
  <!--
  Uniqueness Constraint - _d2LogicalModelSituationRecordConstraint
  Selector - ../D2LogicalModel:situationRecord
  Field(s) - @id, @version
  -->
```

```

-->
<!--
Uniqueness Constraint - _d2LogicalModelSituationConstraint
Selector - ./D2LogicalModel:situation
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="_d2LogicalModelSituationRecordConstraint">
    <xs:selector xpath="./D2LogicalModel:situationRecord"/>
    <xs:field xpath="@id"/>
    <xs:field xpath="@version"/>
  </xs:unique>
  <xs:unique name="_d2LogicalModelSituationConstraint">
    <xs:selector xpath="./D2LogicalModel:situation"/>
    <xs:field xpath="@id"/>
    <xs:field xpath="@version"/>
  </xs:unique>
</xs:element>

```

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Global Definitions

Complex Type: **AbnormalTraffic**

Super-types:	SituationRecord < TrafficElement (by extension) < AbnormalTraffic (by extension)
Sub-types:	None

Name	AbnormalTraffic
Abstract	no
Documentation	A traffic condition which is not normal.

XML Instance Representation

```

<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
      D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
    </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
    [0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
    </D2LogicalModel:generalPublicComment> [1..*] ?
  </...

```

```

<D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
</D2LogicalModel:groupOfLocations> [1]
<D2LogicalModel:situationRecordExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:situationRecordExtension> [0..1]
<D2LogicalModel:trafficElementExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:trafficElementExtension> [0..1]
<D2LogicalModel:abnormalTrafficType>
D2LogicalModel:AbnormalTrafficTypeEnum
</D2LogicalModel:abnormalTrafficType> [0..1] ?
<D2LogicalModel:abnormalTrafficExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:abnormalTrafficExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="AbnormalTraffic">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TrafficElement">
      <xs:sequence>
        <xs:element name="abnormalTrafficType"
          type="D2LogicalModel:AbnormalTrafficTypeEnum" minOccurs="0"
          maxOccurs="1"/>
        <xs:element name="abnormalTrafficExtension"
          type="D2LogicalModel: _ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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Complex Type: Accident

Super-types:	SituationRecord < TrafficElement (by extension) < Accident (by extension)
Sub-types:	None

Name	Accident
Abstract	no
Documentation	Accidents are events where one or more vehicles are involved in collisions or in leaving the roadway. These include collisions between vehicles or with other road users or obstacles.

XML Instance Representation

```

<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
    </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
[0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
    </D2LogicalModel:generalPublicComment> [1..*] ?
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
    </D2LogicalModel:groupOfLocations> [1]

```

```

<D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:situationRecordExtension> [0..1]
<D2LogicalModel:trafficElementExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:trafficElementExtension> [0..1]
<D2LogicalModel:accidentType> D2LogicalModel:AccidentTypeEnum
</D2LogicalModel:accidentType> [1] ?
<D2LogicalModel:accidentExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:accidentExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="Accident">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TrafficElement">
      <xs:sequence>
        <xs:element name="accidentType"
          type="D2LogicalModel:AccidentTypeEnum" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="accidentExtension"
          type="D2LogicalModel: ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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Complex Type: Activity

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < **Activity** (by extension)

Sub-types:

- [DisturbanceActivity](#) (by extension)
- [PublicEvent](#) (by extension)

Name	Activity
<u>Abstract</u>	yes
Documentation	Deliberate human action external to the traffic stream or roadway which could disrupt traffic.

XML Instance Representation

```

<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
      D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
    </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
    [0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
    </D2LogicalModel:generalPublicComment> [1..*] ?
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
    </D2LogicalModel:groupOfLocations> [1]
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType
    </D2LogicalModel:situationRecordExtension> [0..1]
    <D2LogicalModel:trafficElementExtension> D2LogicalModel: ExtensionType

```

```

</D2LogicalModel:trafficElementExtension> [0..1]
<D2LogicalModel:activityExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:activityExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="Activity" abstract="true">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TrafficElement">
      <xs:sequence>
        <xs:element name="activityExtension"
          type="D2LogicalModel: ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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Complex Type: AlertCDirection

Super-types: None

Sub-types: None

Name	AlertCDirection
<u>Abstract</u>	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:	<ul style="list-style-type: none">• 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>
```

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Complex Type: **AlertCLocation**

Super-types:	None
Sub-types:	None

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

XML Instance Representation


```

<...>
  <D2LogicalModel: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="specificLocation"
      type="D2LogicalModel:AlertCLocationCode" minOccurs="1"
      maxOccurs="1"/>
    <xs:element name="alertCLocationExtension"
      type="D2LogicalModel: ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

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Complex Type: 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>

```

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Complex Type: **AlertCMethod4Point**

Super-types: [AlertCPoint](#) < **AlertCMethod4Point** (by extension)

Sub-types: None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

<xs:complexType name="AlertCMethod4Point">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:AlertCPoint">
      <xs:sequence>
        <xs:element name="alertCDirection"
          type="D2LogicalModel:AlertCDirection"/>
        <xs:element name="alertCMethod4PrimaryPointLocation"
          type="D2LogicalModel:AlertCMethod4PrimaryPointLocation"/>
        <xs:element name="alertCMethod4PointExtension"
          type="D2LogicalModel: ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

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Complex Type: **AlertCMethod4PrimaryPointLocation**

Super-types: None

Sub-types: None

Name	AlertCMethod4PrimaryPointLocation
<u>Abstract</u>	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>
```

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Complex Type: **AlertCMethod4SecondaryPointLocation**

Super-types: None

Sub-types: None

Name	AlertCMethod4SecondaryPointLocation
<u>Abstract</u>	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:

- [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" maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
```

```

        type="D2LogicalModel: ExtensionType" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: **AnimalPresenceObstruction**

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Obstruction](#) (by extension) < **AnimalPresenceObstruction** (by extension)

Sub-types: None

Name AnimalPresenceObstruction

Abstract no

Documentation An obstruction on the road resulting from the presence of animals.

XML Instance Representation

```

<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
      D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
    </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
    [0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
    </D2LogicalModel:generalPublicComment> [1..*] ?
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
    </D2LogicalModel:groupOfLocations> [1]
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType
    </D2LogicalModel:situationRecordExtension> [0..1]
    <D2LogicalModel:trafficElementExtension> D2LogicalModel: ExtensionType
    </D2LogicalModel:trafficElementExtension> [0..1]
    <D2LogicalModel:obstructionExtension> D2LogicalModel: ExtensionType
    </D2LogicalModel:obstructionExtension> [0..1]
    <D2LogicalModel:animalPresenceType>
      D2LogicalModel:AnimalPresenceTypeEnum
    </D2LogicalModel:animalPresenceType> [1] ?
    <D2LogicalModel:animalPresenceObstructionExtension>
      D2LogicalModel: ExtensionType
    </D2LogicalModel:animalPresenceObstructionExtension> [0..1]
  </...>

```

Schema Component Representation

```

<xs:complexType name="AnimalPresenceObstruction">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:Obstruction">
      <xs:sequence>
        <xs:element name="animalPresenceType"
          type="D2LogicalModel:AnimalPresenceTypeEnum" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="animalPresenceObstructionExtension"
          type="D2LogicalModel: ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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

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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: **Comment**

Super-types: None

Sub-types: None

Name	Comment
Abstract	no
Documentation	A free text comment with an optional date/time stamp that can be used by the operator to convey un-coded observations/information.

XML Instance Representation

```
<...>
  <D2LogicalModel:comment> D2LogicalModel:MultilingualString
</D2LogicalModel:comment> [1] ?
  <D2LogicalModel:commentType> D2LogicalModel:CommentTypeEnum
</D2LogicalModel:commentType> [0..1] ?
  <D2LogicalModel:commentExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:commentExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Comment">
  <xs:sequence>
    <xs:element name="comment" type="D2LogicalModel:MultilingualString"
      minOccurs="1" maxOccurs="1"/>
    <xs:element name="commentType" type="D2LogicalModel:CommentTypeEnum"
      minOccurs="0" maxOccurs="1"/>
    <xs:element name="commentExtension"
      type="D2LogicalModel: ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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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>

```

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Complex Type: **Conditions**

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < **Conditions** (by extension)

Sub-types:

- [PoorEnvironmentConditions](#) (by extension)
- [RoadConditions](#) (by extension)
 - [NonWeatherRelatedRoadConditions](#) (by extension)
 - [WeatherRelatedRoadConditions](#) (by extension)

Name	Conditions
Abstract	no
Documentation	Any conditions which have the potential to degrade normal driving conditions.

XML Instance Representation

```

<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
    D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
    </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
    [0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
    </D2LogicalModel:generalPublicComment> [1..*] ?
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
    </D2LogicalModel:groupOfLocations> [1]
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType
    </D2LogicalModel:situationRecordExtension> [0..1]
    <D2LogicalModel:trafficElementExtension> D2LogicalModel: ExtensionType
    </D2LogicalModel:trafficElementExtension> [0..1]
    <D2LogicalModel:conditionsExtension> D2LogicalModel: ExtensionType
    </D2LogicalModel:conditionsExtension> [0..1]
  </...>

```



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

Schema Component Representation

```
<xs:complexType name="Conditions">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TrafficElement">
      <xs:sequence>
        <xs:element name="conditionsExtension"
          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>
```

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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>
```

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>
```

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Complex Type: **DistanceFromLinearElementStart**

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

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

XML Instance Representation

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

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

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Complex Type: **DisturbanceActivity**

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Activity](#) (by extension) < **DisturbanceActivity** (by extension)

Sub-types: None

Name DisturbanceActivity

Abstract no

Documentation Deliberate human action of either a public disorder nature or of a situation alert type which could disrupt traffic.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
  </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
  </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
      D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
  </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
  [0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
  </D2LogicalModel:generalPublicComment> [1..*] ?
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
  </D2LogicalModel:groupOfLocations> [1]
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType
  </D2LogicalModel:situationRecordExtension> [0..1]
    <D2LogicalModel:trafficElementExtension> D2LogicalModel: ExtensionType
  </D2LogicalModel:trafficElementExtension> [0..1]
    <D2LogicalModel:activityExtension> D2LogicalModel: ExtensionType
  </D2LogicalModel:activityExtension> [0..1]
    <D2LogicalModel:disturbanceActivityType>
      D2LogicalModel:DisturbanceActivityTypeEnum
    </D2LogicalModel:disturbanceActivityType> [1] ?
    <D2LogicalModel:disturbanceActivityExtension>
      D2LogicalModel: ExtensionType
    </D2LogicalModel:disturbanceActivityExtension> [0..1]
  </...>
```

Schema Component Representation

```
<xs:complexType name="DisturbanceActivity">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:Activity">
      <xs:sequence>
        <xs:element name="disturbanceActivityType"
          type="D2LogicalModel:DisturbanceActivityTypeEnum" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="disturbanceActivityExtension"
```

```

        type="D2LogicalModel: ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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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>

```

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Complex Type: **EnvironmentalObstruction**

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Obstruction](#) (by extension) <

EnvironmentalObstruction (by extension)

Sub-types: None

Name	EnvironmentalObstruction
Abstract	no
Documentation	An obstruction on the road resulting from an environmental cause.

XML Instance Representation

```
<...  
  id="xs:string [1]"  
  version="xs:string [1]">  
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime  
    </D2LogicalModel:situationRecordCreationTime> [1] ?  
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime  
    </D2LogicalModel:situationRecordVersionTime> [1] ?  
    <D2LogicalModel:probabilityOfOccurrence>  
    D2LogicalModel:ProbabilityOfOccurrenceEnum  
    </D2LogicalModel:probabilityOfOccurrence> [1] ?  
    <D2LogicalModel:validity> D2LogicalModel:Validity  
    </D2LogicalModel:validity> [1]  
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>  
    [0..1]  
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment  
    </D2LogicalModel:generalPublicComment> [1..*] ?  
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations  
    </D2LogicalModel:groupOfLocations> [1]  
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: _ExtensionType  
    </D2LogicalModel:situationRecordExtension> [0..1]  
    <D2LogicalModel:trafficElementExtension> D2LogicalModel: _ExtensionType  
    </D2LogicalModel:trafficElementExtension> [0..1]  
    <D2LogicalModel:obstructionExtension> D2LogicalModel: _ExtensionType  
    </D2LogicalModel:obstructionExtension> [0..1]  
    <D2LogicalModel:environmentalObstructionType>  
    D2LogicalModel:EnvironmentalObstructionTypeEnum  
    </D2LogicalModel:environmentalObstructionType> [1] ?  
    <D2LogicalModel:environmentalObstructionExtension>  
    D2LogicalModel: _ExtensionType  
    </D2LogicalModel:environmentalObstructionExtension> [0..1]  
  </...>
```

Schema Component Representation

```
<xs:complexType name="EnvironmentalObstruction">  
  <xs:complexContent>  
    <xs:extension base="D2LogicalModel:Obstruction">  
      <xs:sequence>  
        <xs:element name="environmentalObstructionType"  
          type="D2LogicalModel:EnvironmentalObstructionTypeEnum"  
          minOccurs="1" maxOccurs="1"/>  
        <xs:element name="environmentalObstructionExtension"  
          type="D2LogicalModel: _ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

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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>
```

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Complex Type: GeneralInstructionOrMessageToRoadUsers

Super-types: [SituationRecord](#) < [OperatorAction](#) (by extension) < [NetworkManagement](#) (by extension) < **GeneralInstructionOrMessageToRoadUsers** (by extension)

Sub-types: None

Name GeneralInstructionOrMessageToRoadUsers

Abstract no

Documentation General instruction and/or message that is issued by the network/road operator which is applicable to drivers and sometimes passengers.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]"
  <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordCreationTime> [1] ?
  <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordVersionTime> [1] ?
  <D2LogicalModel:probabilityOfOccurrence>
    D2LogicalModel:ProbabilityOfOccurrenceEnum
  </D2LogicalModel:probabilityOfOccurrence> [1] ?
  <D2LogicalModel:validity> D2LogicalModel:Validity
</D2LogicalModel:validity> [1]
  <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
[0..1]
```



```

<D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
</D2LogicalModel:generalPublicComment> [1..*] ?
<D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
</D2LogicalModel:groupOfLocations> [1]
<D2LogicalModel:situationRecordExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:situationRecordExtension> [0..1]
<D2LogicalModel:operatorActionExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:operatorActionExtension> [0..1]
<D2LogicalModel:complianceOption> D2LogicalModel:ComplianceOptionEnum
</D2LogicalModel:complianceOption> [1] ?
<D2LogicalModel:forVehiclesWithCharacteristicsOf>
D2LogicalModel:VehicleCharacteristics
</D2LogicalModel:forVehiclesWithCharacteristicsOf> [0..1] ?
<D2LogicalModel:networkManagementExtension>
D2LogicalModel: _ExtensionType
</D2LogicalModel:networkManagementExtension> [0..1]
<D2LogicalModel:generalInstructionToRoadUsersType>
D2LogicalModel:GeneralInstructionToRoadUsersTypeEnum
</D2LogicalModel:generalInstructionToRoadUsersType> [0..1] ?
<D2LogicalModel:generalInstructionOrMessageToRoadUsersExtension>
D2LogicalModel: _ExtensionType
</D2LogicalModel:generalInstructionOrMessageToRoadUsersExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="GeneralInstructionOrMessageToRoadUsers">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:NetworkManagement">
      <xs:sequence>
        <xs:element name="generalInstructionToRoadUsersType"
          type="D2LogicalModel:GeneralInstructionToRoadUsersTypeEnum"
          minOccurs="0" maxOccurs="1"/>
        <xs:element
          name="generalInstructionOrMessageToRoadUsersExtension"
          type="D2LogicalModel: _ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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Complex Type: GeneralNetworkManagement

Super-types: [SituationRecord](#) < [OperatorAction](#) (by extension) < [NetworkManagement](#) (by extension) < **GeneralNetworkManagement** (by extension)

Sub-types: None

Name GeneralNetworkManagement

Abstract no

Documentation Network management action that is instigated either manually or automatically by the network/road operator. Compliance with any resulting control may be advisory or mandatory.

XML Instance Representation

```

<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordCreationTime> [1] ?

```

```

<D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordVersionTime> [1] ?
<D2LogicalModel:probabilityOfOccurrence>
D2LogicalModel:ProbabilityOfOccurrenceEnum
</D2LogicalModel:probabilityOfOccurrence> [1] ?
<D2LogicalModel:validity> D2LogicalModel:Validity
</D2LogicalModel:validity> [1]
<D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
[0..1]
<D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
</D2LogicalModel:generalPublicComment> [1..*] ?
<D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
</D2LogicalModel:groupOfLocations> [1]
<D2LogicalModel:situationRecordExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:situationRecordExtension> [0..1]
<D2LogicalModel:operatorActionExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:operatorActionExtension> [0..1]
<D2LogicalModel:complianceOption> D2LogicalModel:ComplianceOptionEnum
</D2LogicalModel:complianceOption> [1] ?
<D2LogicalModel:forVehiclesWithCharacteristicsOf>
D2LogicalModel:VehicleCharacteristics
</D2LogicalModel:forVehiclesWithCharacteristicsOf> [0..1] ?
<D2LogicalModel:networkManagementExtension>
D2LogicalModel: _ExtensionType
</D2LogicalModel:networkManagementExtension> [0..1]
<D2LogicalModel:generalNetworkManagementType>
D2LogicalModel:GeneralNetworkManagementTypeEnum
</D2LogicalModel:generalNetworkManagementType> [1] ?
<D2LogicalModel:generalNetworkManagementExtension>
D2LogicalModel: _ExtensionType
</D2LogicalModel:generalNetworkManagementExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="GeneralNetworkManagement">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:NetworkManagement">
      <xs:sequence>
        <xs:element name="generalNetworkManagementType"
          type="D2LogicalModel:GeneralNetworkManagementTypeEnum"
          minOccurs="1" maxOccurs="1"/>
        <xs:element name="generalNetworkManagementExtension"
          type="D2LogicalModel: _ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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Complex Type: GeneralObstruction

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Obstruction](#) (by extension) < **GeneralObstruction** (by extension)

Sub-types: None

Name GeneralObstruction

Abstract no

Documentation Any stationary or moving obstacle of a physical nature, other than of an animal, vehicle, environmental, or damaged equipment nature.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
      D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
    </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
    [0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
    </D2LogicalModel:generalPublicComment> [1..*] ?
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
    </D2LogicalModel:groupOfLocations> [1]
    <D2LogicalModel:situationRecordExtension> D2LogicalModel:_ExtensionType
    </D2LogicalModel:situationRecordExtension> [0..1]
    <D2LogicalModel:trafficElementExtension> D2LogicalModel:_ExtensionType
    </D2LogicalModel:trafficElementExtension> [0..1]
    <D2LogicalModel:obstructionExtension> D2LogicalModel:_ExtensionType
    </D2LogicalModel:obstructionExtension> [0..1]
    <D2LogicalModel:obstructionType> D2LogicalModel:ObstructionTypeEnum
    </D2LogicalModel:obstructionType> [1] ?
    <D2LogicalModel:generalObstructionExtension>
      D2LogicalModel:_ExtensionType
    </D2LogicalModel:generalObstructionExtension> [0..1]
  </...>
```

Schema Component Representation

```
<xs:complexType name="GeneralObstruction">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:Obstruction">
      <xs:sequence>
        <xs:element name="obstructionType"
          type="D2LogicalModel:ObstructionTypeEnum" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="generalObstructionExtension"
          type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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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**

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

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

XML Instance Representation

```

<...>
  <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>

```

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Complex Type: **Impact**

Super-types:	None
Sub-types:	None

Name	Impact
Abstract	no
Documentation	An assessment of the impact that an event or operator action defined by the situation record has on the driving conditions.

XML Instance Representation

```
<...>
  <D2LogicalModel:trafficConstrictionType>
    D2LogicalModel:TrafficConstrictionTypeEnum
  </D2LogicalModel:trafficConstrictionType> [1] ?
  <D2LogicalModel:impactExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:impactExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Impact">
  <xs:sequence>
    <xs:element name="trafficConstrictionType"
      type="D2LogicalModel:TrafficConstrictionTypeEnum" minOccurs="1"
      maxOccurs="1"/>
    <xs:element name="impactExtension"
      type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: **InfrastructureDamageObstruction**

Super-types:	SituationRecord < TrafficElement (by extension) < Obstruction (by extension) < InfrastructureDamageObstruction (by extension)
Sub-types:	None

Name	InfrastructureDamageObstruction
Abstract	no
Documentation	An obstruction on the road resulting from the failure or damage of infrastructure on, under, above or close to the road.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
  </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
  </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
      D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
```

```

</D2LogicalModel:validity> [1]
<D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
[0..1]
<D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
</D2LogicalModel:generalPublicComment> [1..*] ?
<D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
</D2LogicalModel:groupOfLocations> [1]
<D2LogicalModel:situationRecordExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:situationRecordExtension> [0..1]
<D2LogicalModel:trafficElementExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:trafficElementExtension> [0..1]
<D2LogicalModel:obstructionExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:obstructionExtension> [0..1]
<D2LogicalModel:infrastructureDamageType>
D2LogicalModel:InfrastructureDamageTypeEnum
</D2LogicalModel:infrastructureDamageType> [1] ?
<D2LogicalModel:infrastructureDamageObstructionExtension>
D2LogicalModel:_ExtensionType
</D2LogicalModel:infrastructureDamageObstructionExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="InfrastructureDamageObstruction">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:Obstruction">
      <xs:sequence>
        <xs:element name="infrastructureDamageType"
          type="D2LogicalModel:InfrastructureDamageTypeEnum" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="infrastructureDamageObstructionExtension"
          type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

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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>

```

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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:alertCLinear> D2LogicalModel:AlertCLinear
</D2LogicalModel:alertCLinear> [0..1]
  <D2LogicalModel:linearWithinLinearElement>
    D2LogicalModel:LinearWithinLinearElement
  </D2LogicalModel:linearWithinLinearElement> [0..1]
  <D2LogicalModel:linearExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:linearExtension> [0..1]
</...>

```

Schema Component Representation

```

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

```

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

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Complex Type: **LinearElement**

Super-types: None

Sub-types:

- [LinearElementByCode](#) (by extension)

Name LinearElement

Abstract no

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **LinearElementByCode**

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

Sub-types: None

Name LinearElementByCode

Abstract no

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

XML Instance Representation

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



```

<D2LogicalModel:linearElementByCodeExtension>
  D2LogicalModel: ExtensionType
</D2LogicalModel:linearElementByCodeExtension> [0..1]
</...>

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: **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: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="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>

```

Complex Type: **Location**

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

Sub-types:

- [NetworkLocation](#) (by extension)
 - [Linear](#) (by extension)
 - [Point](#) (by extension)

Name	Location
<u>Abstract</u>	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: **MaintenanceWorks**

Super-types: [SituationRecord](#) < [OperatorAction](#) (by extension) < [Roadworks](#) (by extension) < **MaintenanceWorks** (by extension)

Sub-types: None

Name	MaintenanceWorks
<u>Abstract</u>	no
Documentation	Roadworks involving the maintenance or installation of infrastructure.

XML Instance Representation

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

```

version="xs:string [1]">
  <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordCreationTime> [1] ?
  <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordVersionTime> [1] ?
  <D2LogicalModel:probabilityOfOccurrence>
D2LogicalModel:ProbabilityOfOccurrenceEnum
</D2LogicalModel:probabilityOfOccurrence> [1] ?
  <D2LogicalModel:validity> D2LogicalModel:Validity
</D2LogicalModel:validity> [1]
  <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
[0..1]
  <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
</D2LogicalModel:generalPublicComment> [1..*] ?
  <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
</D2LogicalModel:groupOfLocations> [1]
  <D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:situationRecordExtension> [0..1]
  <D2LogicalModel:operatorActionExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:operatorActionExtension> [0..1]
  <D2LogicalModel:roadworksExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:roadworksExtension> [0..1]
  <D2LogicalModel:roadMaintenanceType>
D2LogicalModel:RoadMaintenanceTypeEnum
</D2LogicalModel:roadMaintenanceType> [1] ?
  <D2LogicalModel:maintenanceWorksExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:maintenanceWorksExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="MaintenanceWorks">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:Roadworks">
      <xs:sequence>
        <xs:element name="roadMaintenanceType"
          type="D2LogicalModel:RoadMaintenanceTypeEnum" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="maintenanceWorksExtension"
          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](#) < [MultilingualStringValue](#) (by restriction) < **MultilingualStringValue** (by extension)

Sub-types: None

Name MultilingualStringValue

Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="MultilingualStringValue">
  <xs:simpleContent>
    <xs:extension base="D2LogicalModel:MultilingualStringValue"
      <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: NetworkManagement

Super-types: [SituationRecord](#) < [OperatorAction](#) (by extension) < **NetworkManagement** (by extension)

Sub-types:

- [GeneralInstructionOrMessageToRoadUsers](#) (by extension)
- [GeneralNetworkManagement](#) (by extension)
- [RoadOrCarriagewayOrLaneManagement](#) (by extension)
- [WinterDrivingManagement](#) (by extension)

Name	NetworkManagement
Abstract	yes
Documentation	Network management action which is applicable to the road network and its users.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
  <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordCreationTime> [1] ?
  <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordVersionTime> [1] ?
  <D2LogicalModel:probabilityOfOccurrence>
D2LogicalModel:ProbabilityOfOccurrenceEnum
</D2LogicalModel:probabilityOfOccurrence> [1] ?
  <D2LogicalModel:validity> D2LogicalModel:Validity
</D2LogicalModel:validity> [1]
```

```

<D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
[0..1]
<D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
</D2LogicalModel:generalPublicComment> [1..*] ?
<D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
</D2LogicalModel:groupOfLocations> [1]
<D2LogicalModel:situationRecordExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:situationRecordExtension> [0..1]
<D2LogicalModel:operatorActionExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:operatorActionExtension> [0..1]
<D2LogicalModel:complianceOption> D2LogicalModel:ComplianceOptionEnum
</D2LogicalModel:complianceOption> [1] ?
<D2LogicalModel:forVehiclesWithCharacteristicsOf>
D2LogicalModel:VehicleCharacteristics
</D2LogicalModel:forVehiclesWithCharacteristicsOf> [0..1] ?
<D2LogicalModel:networkManagementExtension>
D2LogicalModel:_ExtensionType
</D2LogicalModel:networkManagementExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="NetworkManagement" abstract="true">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:OperatorAction">
      <xs:sequence>
        <xs:element name="complianceOption"
          type="D2LogicalModel:ComplianceOptionEnum" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="forVehiclesWithCharacteristicsOf"
          type="D2LogicalModel:VehicleCharacteristics" minOccurs="0"/>
        <xs:element name="networkManagementExtension"
          type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: NonWeatherRelatedRoadConditions

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Conditions](#) (by extension) < [RoadConditions](#) (by extension) < **NonWeatherRelatedRoadConditions** (by extension)

Sub-types: None

Name	NonWeatherRelatedRoadConditions
<u>Abstract</u>	no
Documentation	Road surface conditions that are not related to the weather but which may affect driving conditions.

XML Instance Representation

```

<...
id="xs:string [1]"
version="xs:string [1]">
  <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordCreationTime> [1] ?
  <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordVersionTime> [1] ?
  <D2LogicalModel:probabilityOfOccurrence>

```

```

D2LogicalModel:ProbabilityOfOccurrenceEnum
</D2LogicalModel:probabilityOfOccurrence> [1] ?
<D2LogicalModel:validity> D2LogicalModel:Validity
</D2LogicalModel:validity> [1]
<D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
[0..1]
<D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
</D2LogicalModel:generalPublicComment> [1..*] ?
<D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
</D2LogicalModel:groupOfLocations> [1]
<D2LogicalModel:situationRecordExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:situationRecordExtension> [0..1]
<D2LogicalModel:trafficElementExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:trafficElementExtension> [0..1]
<D2LogicalModel:conditionsExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:conditionsExtension> [0..1]
<D2LogicalModel:roadConditionsExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:roadConditionsExtension> [0..1]
<D2LogicalModel:nonWeatherRelatedRoadConditionType>
D2LogicalModel:NonWeatherRelatedRoadConditionTypeEnum
</D2LogicalModel:nonWeatherRelatedRoadConditionType> [1] ?
<D2LogicalModel:nonWeatherRelatedRoadConditionsExtension>
D2LogicalModel: _ExtensionType
</D2LogicalModel:nonWeatherRelatedRoadConditionsExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="NonWeatherRelatedRoadConditions">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:RoadConditions">
      <xs:sequence>
        <xs:element name="nonWeatherRelatedRoadConditionType"
          type="D2LogicalModel:NonWeatherRelatedRoadConditionTypeEnum"
          minOccurs="1" maxOccurs="1"/>
        <xs:element name="nonWeatherRelatedRoadConditionsExtension"
          type="D2LogicalModel: _ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: Obstruction

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < **Obstruction** (by extension)

Sub-types:

- [AnimalPresenceObstruction](#) (by extension)
- [EnvironmentalObstruction](#) (by extension)
- [GeneralObstruction](#) (by extension)
- [InfrastructureDamageObstruction](#) (by extension)
- [VehicleObstruction](#) (by extension)

Name	Obstruction
Abstract	yes
Documentation	Any stationary or moving obstacle of a physical nature (e.g. obstacles or vehicles from an earlier accident, shed loads on carriageway, rock fall, abnormal or dangerous loads, or animals etc.) which could disrupt or endanger traffic.

XML Instance Representation

```

<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
  </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
  </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
      D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
  </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
  [0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
  </D2LogicalModel:generalPublicComment> [1..*] ?
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
  </D2LogicalModel:groupOfLocations> [1]
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType
  </D2LogicalModel:situationRecordExtension> [0..1]
    <D2LogicalModel:trafficElementExtension> D2LogicalModel: ExtensionType
  </D2LogicalModel:trafficElementExtension> [0..1]
    <D2LogicalModel:obstructionExtension> D2LogicalModel: ExtensionType
  </D2LogicalModel:obstructionExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="Obstruction" abstract="true">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TrafficElement">
      <xs:sequence>
        <xs:element name="obstructionExtension"
          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>

```

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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>

```

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Complex Type: **OperatorAction**

Super-types: [SituationRecord](#) < **OperatorAction** (by extension)

Sub-types:

- [NetworkManagement](#) (by extension)
 - [GeneralInstructionOrMessageToRoadUsers](#) (by extension)
 - [GeneralNetworkManagement](#) (by extension)
 - [RoadOrCarriagewayOrLaneManagement](#) (by extension)
 - [WinterDrivingManagement](#) (by extension)
- [Roadworks](#) (by extension)
 - [MaintenanceWorks](#) (by extension)

Name	OperatorAction
Abstract	no
Documentation	Actions that a traffic operator can decide to implement to prevent or help correct dangerous or poor driving conditions, including maintenance of the road infrastructure.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
  <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordCreationTime> [1] ?
  <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordVersionTime> [1] ?
  <D2LogicalModel:probabilityOfOccurrence>
D2LogicalModel:ProbabilityOfOccurrenceEnum
</D2LogicalModel:probabilityOfOccurrence> [1] ?
  <D2LogicalModel:validity> D2LogicalModel:Validity
</D2LogicalModel:validity> [1]
  <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
[0..1]
  <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
</D2LogicalModel:generalPublicComment> [1..*] ?
  <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
</D2LogicalModel:groupOfLocations> [1]
  <D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:situationRecordExtension> [0..1]
  <D2LogicalModel:operatorActionExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:operatorActionExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OperatorAction">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:SituationRecord">
      <xs:sequence>
        <xs:element name="operatorActionExtension"
          type="D2LogicalModel: ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: **OverallPeriod**

Super-types: None

Sub-types: None

Name OverallPeriod

Abstract no

Documentation A continuous or discontinuous period of validity defined by overall bounding start and end times and the possible intersection of valid periods (potentially recurring) with the complement of exception periods (also potentially recurring).

XML Instance Representation

```
<...>
  <D2LogicalModel:overallStartTime> D2LogicalModel:DateTime
</D2LogicalModel:overallStartTime> [1] ?
  <D2LogicalModel:overallEndTime> D2LogicalModel:DateTime
</D2LogicalModel:overallEndTime> [0..1] ?
  <D2LogicalModel:overallPeriodExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:overallPeriodExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OverallPeriod">
  <xs:sequence>
    <xs:element name="overallStartTime" type="D2LogicalModel:DateTime"
      minOccurs="1" maxOccurs="1"/>
    <xs:element name="overallEndTime" type="D2LogicalModel:DateTime"
      minOccurs="0" maxOccurs="1"/>
    <xs:element name="overallPeriodExtension"
      type="D2LogicalModel: ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: **PayloadPublication**

Super-types: None

Sub-types:

- [SituationPublication](#) (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>

```

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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>

```

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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

```

<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:pointCoordinates> D2LogicalModel:PointCoordinates
</D2LogicalModel:pointCoordinates> [1]
  <D2LogicalModel:pointByCoordinatesExtension>
D2LogicalModel: ExtensionType
</D2LogicalModel:pointByCoordinatesExtension> [0..1]
</...>
```

```

</D2LogicalModel:pointByCoordinatesExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="PointByCoordinates">
  <xs:sequence>
    <xs:element name="pointCoordinates"
      type="D2LogicalModel:PointCoordinates"/>
    <xs:element name="pointByCoordinatesExtension"
      type="D2LogicalModel: ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

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Complex Type: PointCoordinates

Super-types:	None
Sub-types:	None

Name	PointCoordinates
<u>Abstract</u>	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>

```

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Complex Type: PoorEnvironmentConditions

Super-types:	SituationRecord < TrafficElement (by extension) < Conditions (by extension) < PoorEnvironmentConditions (by extension)
Sub-types:	None

Name	PoorEnvironmentConditions
Abstract	no
Documentation	Any environmental conditions which may be affecting the driving conditions on the road.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
      D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
    </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
    [0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
    </D2LogicalModel:generalPublicComment> [1..*] ?
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
    </D2LogicalModel:groupOfLocations> [1]
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: _ExtensionType
    </D2LogicalModel:situationRecordExtension> [0..1]
    <D2LogicalModel:trafficElementExtension> D2LogicalModel: _ExtensionType
    </D2LogicalModel:trafficElementExtension> [0..1]
    <D2LogicalModel:conditionsExtension> D2LogicalModel: _ExtensionType
    </D2LogicalModel:conditionsExtension> [0..1]
    <D2LogicalModel:poorEnvironmentType>
      D2LogicalModel:PoorEnvironmentTypeEnum
    </D2LogicalModel:poorEnvironmentType> [1] ?
    <D2LogicalModel:poorEnvironmentConditionsExtension>
      D2LogicalModel: _ExtensionType
    </D2LogicalModel:poorEnvironmentConditionsExtension> [0..1]
  </...>
```

Schema Component Representation

```
<xs:complexType name="PoorEnvironmentConditions">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:Conditions">
      <xs:sequence>
        <xs:element name="poorEnvironmentType"
          type="D2LogicalModel:PoorEnvironmentTypeEnum" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="poorEnvironmentConditionsExtension"
          type="D2LogicalModel: _ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: **PublicEvent**

Super-types:	SituationRecord < TrafficElement (by extension) < Activity (by extension) < PublicEvent (by extension)
Sub-types:	None

Name	PublicEvent
Abstract	no
Documentation	Organised public event which could disrupt traffic.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
  <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordCreationTime> [1] ?
  <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
</D2LogicalModel:situationRecordVersionTime> [1] ?
  <D2LogicalModel:probabilityOfOccurrence>
D2LogicalModel:ProbabilityOfOccurrenceEnum
</D2LogicalModel:probabilityOfOccurrence> [1] ?
  <D2LogicalModel:validity> D2LogicalModel:Validity
</D2LogicalModel:validity> [1]
  <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
[0..1]
  <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
</D2LogicalModel:generalPublicComment> [1..*] ?
  <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
</D2LogicalModel:groupOfLocations> [1]
  <D2LogicalModel:situationRecordExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:situationRecordExtension> [0..1]
  <D2LogicalModel:trafficElementExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:trafficElementExtension> [0..1]
  <D2LogicalModel:activityExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:activityExtension> [0..1]
  <D2LogicalModel:publicEventType> D2LogicalModel:PublicEventTypeEnum
</D2LogicalModel:publicEventType> [1] ?
  <D2LogicalModel:publicEventExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:publicEventExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PublicEvent">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:Activity">
      <xs:sequence>
        <xs:element name="publicEventType"
          type="D2LogicalModel:PublicEventTypeEnum" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="publicEventExtension"
          type="D2LogicalModel: _ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: RoadConditions

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Conditions](#) (by extension) < [RoadConditions](#) (by extension)

Sub-types:

- [NonWeatherRelatedRoadConditions](#) (by extension)
- [WeatherRelatedRoadConditions](#) (by extension)

Name	RoadConditions
Abstract	yes
Documentation	Conditions of the road surface which may affect driving conditions. These may be related to the weather (e.g. ice, snow etc.) or to other conditions (e.g. oil, mud, leaves etc. on the road)

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
  <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
  </D2LogicalModel:situationRecordCreationTime> [1] ?
  <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
  </D2LogicalModel:situationRecordVersionTime> [1] ?
  <D2LogicalModel:probabilityOfOccurrence>
  D2LogicalModel:ProbabilityOfOccurrenceEnum
  </D2LogicalModel:probabilityOfOccurrence> [1] ?
  <D2LogicalModel:validity> D2LogicalModel:Validity
  </D2LogicalModel:validity> [1]
  <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
  [0..1]
  <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
  </D2LogicalModel:generalPublicComment> [1..*] ?
  <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
  </D2LogicalModel:groupOfLocations> [1]
  <D2LogicalModel:situationRecordExtension> D2LogicalModel: _ExtensionType
  </D2LogicalModel:situationRecordExtension> [0..1]
  <D2LogicalModel:trafficElementExtension> D2LogicalModel: _ExtensionType
  </D2LogicalModel:trafficElementExtension> [0..1]
  <D2LogicalModel:conditionsExtension> D2LogicalModel: _ExtensionType
  </D2LogicalModel:conditionsExtension> [0..1]
  <D2LogicalModel:roadConditionsExtension> D2LogicalModel: _ExtensionType
  </D2LogicalModel:roadConditionsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RoadConditions" abstract="true">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:Conditions">
      <xs:sequence>
        <xs:element name="roadConditionsExtension"
          type="D2LogicalModel: _ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: RoadOrCarriagewayOrLaneManagement

Super-types:	SituationRecord < OperatorAction (by extension) < NetworkManagement (by extension) < RoadOrCarriagewayOrLaneManagement (by extension)
Sub-types:	None

Name	RoadOrCarriagewayOrLaneManagement
Abstract	no
Documentation	Road, carriageway or lane management action that is instigated by the network/road operator.

XML Instance Representation

```
<...  
  id="xs:string [1]"  
  version="xs:string [1]">  
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime  
    </D2LogicalModel:situationRecordCreationTime> [1] ?  
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime  
    </D2LogicalModel:situationRecordVersionTime> [1] ?  
    <D2LogicalModel:probabilityOfOccurrence>  
    D2LogicalModel:ProbabilityOfOccurrenceEnum  
    </D2LogicalModel:probabilityOfOccurrence> [1] ?  
    <D2LogicalModel:validity> D2LogicalModel:Validity  
    </D2LogicalModel:validity> [1]  
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>  
    [0..1]  
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment  
    </D2LogicalModel:generalPublicComment> [1..*] ?  
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations  
    </D2LogicalModel:groupOfLocations> [1]  
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType  
    </D2LogicalModel:situationRecordExtension> [0..1]  
    <D2LogicalModel:operatorActionExtension> D2LogicalModel: ExtensionType  
    </D2LogicalModel:operatorActionExtension> [0..1]  
    <D2LogicalModel:complianceOption> D2LogicalModel:ComplianceOptionEnum  
    </D2LogicalModel:complianceOption> [1] ?  
    <D2LogicalModel:forVehiclesWithCharacteristicsOf>  
    D2LogicalModel:VehicleCharacteristics  
    </D2LogicalModel:forVehiclesWithCharacteristicsOf> [0..1] ?  
    <D2LogicalModel:networkManagementExtension>  
    D2LogicalModel: ExtensionType  
    </D2LogicalModel:networkManagementExtension> [0..1]  
    <D2LogicalModel:roadOrCarriagewayOrLaneManagementType>  
    D2LogicalModel: RoadOrCarriagewayOrLaneManagementTypeEnum  
    </D2LogicalModel:roadOrCarriagewayOrLaneManagementType> [1] ?  
    <D2LogicalModel:roadOrCarriagewayOrLaneManagementExtension>  
    D2LogicalModel: ExtensionType  
    </D2LogicalModel:roadOrCarriagewayOrLaneManagementExtension> [0..1]  
  </...>
```

Schema Component Representation

```
<xs:complexType name="RoadOrCarriagewayOrLaneManagement">  
  <xs:complexContent>  
    <xs:extension base="D2LogicalModel:NetworkManagement">  
      <xs:sequence>  
        <xs:element name="roadOrCarriagewayOrLaneManagementType"  
          type="D2LogicalModel: RoadOrCarriagewayOrLaneManagementTypeEnum"  
          minOccurs="1" maxOccurs="1"/>  
        <xs:element name="roadOrCarriagewayOrLaneManagementExtension"  
          type="D2LogicalModel: ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

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Complex Type: **Roadworks**

Super-types: [SituationRecord](#) < [OperatorAction](#) (by extension) < **Roadworks** (by extension)

Sub-types:

- [MaintenanceWorks](#) (by extension)

Name	Roadworks
Abstract	yes
Documentation	Highway maintenance, installation and construction activities that may potentially affect traffic operations.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
      D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
    </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
    [0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
    </D2LogicalModel:generalPublicComment> [1..*] ?
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
    </D2LogicalModel:groupOfLocations> [1]
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: _ExtensionType
    </D2LogicalModel:situationRecordExtension> [0..1]
    <D2LogicalModel:operatorActionExtension> D2LogicalModel: _ExtensionType
    </D2LogicalModel:operatorActionExtension> [0..1]
    <D2LogicalModel:roadworksExtension> D2LogicalModel: _ExtensionType
    </D2LogicalModel:roadworksExtension> [0..1]
  </...>
```

Schema Component Representation

```
<xs:complexType name="Roadworks" abstract="true">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:OperatorAction">
      <xs:sequence>
        <xs:element name="roadworksExtension"
          type="D2LogicalModel: _ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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Complex Type: **Situation**

Super-types:	None
Sub-types:	None

Name	Situation
Abstract	no
Documentation	An identifiable instance of a traffic/travel situation comprising one or more traffic/travel circumstances which are linked by one or more causal relationships. Each traffic/travel circumstance is represented by a Situation Record.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:headerInformation> D2LogicalModel:HeaderInformation
  </D2LogicalModel:headerInformation> [1]
    <D2LogicalModel:situationRecord> D2LogicalModel:SituationRecord
  </D2LogicalModel:situationRecord> [1..*]
    <D2LogicalModel:situationExtension> D2LogicalModel: ExtensionType
  </D2LogicalModel:situationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Situation">
  <xs:sequence>
    <xs:element name="headerInformation"
      type="D2LogicalModel:HeaderInformation"/>
    <xs:element name="situationRecord"
      type="D2LogicalModel:SituationRecord" maxOccurs="unbounded"/>
    <xs:element name="situationExtension"
      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>
```

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Complex Type: SituationPublication

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

Sub-types: None

Name	SituationPublication
Abstract	no
Documentation	A publication containing zero or more traffic/travel situations.

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:situation> D2LogicalModel:Situation
  </D2LogicalModel:situation> [0..*]
    <D2LogicalModel:situationPublicationExtension>
      D2LogicalModel: ExtensionType
    </D2LogicalModel:situationPublicationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SituationPublication">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:PayloadPublication">
```

```

<xs:sequence>
  <xs:element name="situation" type="D2LogicalModel:Situation"
    minOccurs="0" maxOccurs="unbounded"/>
  <xs:element name="situationPublicationExtension"
    type="D2LogicalModel:ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

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Complex Type: **SituationRecord**

Super-types: None

Sub-types:

- [OperatorAction](#) (by extension)
 - [NetworkManagement](#) (by extension)
 - [GeneralInstructionOrMessageToRoadUsers](#) (by extension)
 - [GeneralNetworkManagement](#) (by extension)
 - [RoadOrCarriagewayOrLaneManagement](#) (by extension)
 - [WinterDrivingManagement](#) (by extension)
 - [Roadworks](#) (by extension)
 - [MaintenanceWorks](#) (by extension)
- [TrafficElement](#) (by extension)
 - [AbnormalTraffic](#) (by extension)
 - [Accident](#) (by extension)
 - [Activity](#) (by extension)
 - [DisturbanceActivity](#) (by extension)
 - [PublicEvent](#) (by extension)
 - [Conditions](#) (by extension)
 - [PoorEnvironmentConditions](#) (by extension)
 - [RoadConditions](#) (by extension)
 - [NonWeatherRelatedRoadConditions](#) (by extension)
 - [WeatherRelatedRoadConditions](#) (by extension)
 - [Obstruction](#) (by extension)
 - [AnimalPresenceObstruction](#) (by extension)
 - [EnvironmentalObstruction](#) (by extension)
 - [GeneralObstruction](#) (by extension)
 - [InfrastructureDamageObstruction](#) (by extension)
 - [VehicleObstruction](#) (by extension)

Name	SituationRecord
<u>Abstract</u>	yes
Documentation	An identifiable versioned instance of a single record/element within a situation.

XML Instance Representation

```

<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>

```

```

D2LogicalModel:ProbabilityOfOccurrenceEnum
</D2LogicalModel:probabilityOfOccurrence> [1] ?
<D2LogicalModel:validity> D2LogicalModel:Validity
</D2LogicalModel:validity> [1]
<D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
[0..1]
<D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
</D2LogicalModel:generalPublicComment> [1..*] ?
<D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
</D2LogicalModel:groupOfLocations> [1]
<D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:situationRecordExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="SituationRecord" abstract="true">
  <xs:sequence>
    <xs:element name="situationRecordCreationTime"
      type="D2LogicalModel:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="situationRecordVersionTime"
      type="D2LogicalModel:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="probabilityOfOccurrence"
      type="D2LogicalModel:ProbabilityOfOccurrenceEnum" minOccurs="1"
      maxOccurs="1"/>
    <xs:element name="validity" type="D2LogicalModel:Validity"/>
    <xs:element name="impact" type="D2LogicalModel:Impact"
      minOccurs="0"/>
    <xs:element name="generalPublicComment" type="D2LogicalModel:Comment"
      maxOccurs="unbounded"/>
    <xs:element name="groupOfLocations"
      type="D2LogicalModel:GroupOfLocations"/>
    <xs:element name="situationRecordExtension"
      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>

```

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Complex Type: SupplementaryPositionalDescription

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```

<...>
  <D2LogicalModel:locationDescriptor>
    D2LogicalModel:LocationDescriptorEnum
  </D2LogicalModel:locationDescriptor> [1..*] ?
  <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="supplementaryPositionalDescriptionExtension"
      type="D2LogicalModel: ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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Complex Type: **TrafficElement**

Super-types: [SituationRecord](#) < **TrafficElement** (by extension)

Sub-types:

- [AbnormalTraffic](#) (by extension)
- [Accident](#) (by extension)
- [Activity](#) (by extension)
 - [DisturbanceActivity](#) (by extension)
 - [PublicEvent](#) (by extension)
- [Conditions](#) (by extension)
 - [PoorEnvironmentConditions](#) (by extension)
 - [RoadConditions](#) (by extension)
 - [NonWeatherRelatedRoadConditions](#) (by extension)
 - [WeatherRelatedRoadConditions](#) (by extension)
- [Obstruction](#) (by extension)
 - [AnimalPresenceObstruction](#) (by extension)
 - [EnvironmentalObstruction](#) (by extension)
 - [GeneralObstruction](#) (by extension)
 - [InfrastructureDamageObstruction](#) (by extension)
 - [VehicleObstruction](#) (by extension)

Name	TrafficElement
Abstract	yes
Documentation	An event which is not planned by the traffic operator, which is affecting, or has the potential to affect traffic flow.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
  </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
  </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
      D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
  </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
    [0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
  </D2LogicalModel:generalPublicComment> [1..*] ?
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
  </D2LogicalModel:groupOfLocations> [1]
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType
```



```

</D2LogicalModel:situationRecordExtension> [0..1]
<D2LogicalModel:trafficElementExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:trafficElementExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="TrafficElement" abstract="true">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:SituationRecord">
      <xs:sequence>
        <xs:element name="trafficElementExtension"
          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
<u>Abstract</u>	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:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

```

        <xs:element name="trafficStatusValueExtension"
          type="D2LogicalModel: ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: **Validity**

Super-types:	None
Sub-types:	None

Name	Validity
<u>Abstract</u>	no
Documentation	Specification of validity, either explicitly or by a validity time period specification which may be discontinuous.

XML Instance Representation

```

<...>
  <D2LogicalModel:validityStatus> D2LogicalModel:ValidityStatusEnum
</D2LogicalModel:validityStatus> [1] ?
  <D2LogicalModel:validityTimeSpecifiation> D2LogicalModel:OverallPeriod
</D2LogicalModel:validityTimeSpecifiation> [1] ?
  <D2LogicalModel:validityExtension> D2LogicalModel: ExtensionType
</D2LogicalModel:validityExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="Validity">
  <xs:sequence>
    <xs:element name="validityStatus"
      type="D2LogicalModel:ValidityStatusEnum" minOccurs="1"
      maxOccurs="1"/>
    <xs:element name="validityTimeSpecifiation"
      type="D2LogicalModel:OverallPeriod"/>
    <xs:element name="validityExtension"
      type="D2LogicalModel: ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: **VehicleCharacteristics**

Super-types:	None
Sub-types:	None

Name	VehicleCharacteristics
<u>Abstract</u>	no
Documentation	The characteristics of a vehicle, e.g. lorry of gross weight greater than 30 tonnes.

XML Instance Representation

```

<...>
  <D2LogicalModel:vehicleType> D2LogicalModel:VehicleTypeEnum
</D2LogicalModel:vehicleType> [0..1] ?
  <D2LogicalModel:vehicleCharacteristicsExtension>
D2LogicalModel: ExtensionType
</D2LogicalModel:vehicleCharacteristicsExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="VehicleCharacteristics">
  <xs:sequence>
    <xs:element name="vehicleType" type="D2LogicalModel:VehicleTypeEnum"
minOccurs="0" maxOccurs="1"/>
    <xs:element name="vehicleCharacteristicsExtension"
type="D2LogicalModel: ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: VehicleCountValue

Super-types: [DataValue](#) < **VehicleCountValue** (by extension)

Sub-types: None

Name	VehicleCountValue
<u>Abstract</u>	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: **VehicleObstruction**

Super-types:	SituationRecord < TrafficElement (by extension) < Obstruction (by extension) < VehicleObstruction (by extension)
Sub-types:	None

Name	VehicleObstruction
Abstract	no
Documentation	An obstruction on the road caused by one or more vehicles.

XML Instance Representation

```
<...  
  id="xs:string [1]"  
  version="xs:string [1]">  
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime  
    </D2LogicalModel:situationRecordCreationTime> [1] ?  
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime  
    </D2LogicalModel:situationRecordVersionTime> [1] ?  
    <D2LogicalModel:probabilityOfOccurrence>  
    D2LogicalModel:ProbabilityOfOccurrenceEnum  
    </D2LogicalModel:probabilityOfOccurrence> [1] ?  
    <D2LogicalModel:validity> D2LogicalModel:Validity  
    </D2LogicalModel:validity> [1]  
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>  
    [0..1]  
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment  
    </D2LogicalModel:generalPublicComment> [1..*] ?  
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations  
    </D2LogicalModel:groupOfLocations> [1]  
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: _ExtensionType  
    </D2LogicalModel:situationRecordExtension> [0..1]  
    <D2LogicalModel:trafficElementExtension> D2LogicalModel: _ExtensionType  
    </D2LogicalModel:trafficElementExtension> [0..1]  
    <D2LogicalModel:obstructionExtension> D2LogicalModel: _ExtensionType  
    </D2LogicalModel:obstructionExtension> [0..1]  
    <D2LogicalModel:vehicleObstructionType>  
    D2LogicalModel:VehicleObstructionTypeEnum  
    </D2LogicalModel:vehicleObstructionType> [1] ?  
    <D2LogicalModel:vehicleObstructionExtension>  
    D2LogicalModel: _ExtensionType  
    </D2LogicalModel:vehicleObstructionExtension> [0..1]  
</...>
```

Schema Component Representation

```
<xs:complexType name="VehicleObstruction">  
  <xs:complexContent>  
    <xs:extension base="D2LogicalModel:Obstruction">  
      <xs:sequence>  
        <xs:element name="vehicleObstructionType"  
          type="D2LogicalModel:VehicleObstructionTypeEnum" minOccurs="1"  
          maxOccurs="1"/>  
        <xs:element name="vehicleObstructionExtension"  
          type="D2LogicalModel: _ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

Complex Type: **WeatherRelatedRoadConditions**

Super-types: [SituationRecord](#) < [TrafficElement](#) (by extension) < [Conditions](#) (by extension) < [RoadConditions](#) (by extension) < **WeatherRelatedRoadConditions** (by extension)

Sub-types: None

Name WeatherRelatedRoadConditions

Abstract no

Documentation Road surface conditions that are related to the weather which may affect the driving conditions, such as ice, snow or water.

XML Instance Representation

```
<...  
  id="xs:string [1]"  
  version="xs:string [1]">  
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime  
    </D2LogicalModel:situationRecordCreationTime> [1] ?  
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime  
    </D2LogicalModel:situationRecordVersionTime> [1] ?  
    <D2LogicalModel:probabilityOfOccurrence>  
      D2LogicalModel:ProbabilityOfOccurrenceEnum  
    </D2LogicalModel:probabilityOfOccurrence> [1] ?  
    <D2LogicalModel:validity> D2LogicalModel:Validity  
    </D2LogicalModel:validity> [1]  
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>  
    [0..1]  
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment  
    </D2LogicalModel:generalPublicComment> [1..*] ?  
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations  
    </D2LogicalModel:groupOfLocations> [1]  
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType  
    </D2LogicalModel:situationRecordExtension> [0..1]  
    <D2LogicalModel:trafficElementExtension> D2LogicalModel: ExtensionType  
    </D2LogicalModel:trafficElementExtension> [0..1]  
    <D2LogicalModel:conditionsExtension> D2LogicalModel: ExtensionType  
    </D2LogicalModel:conditionsExtension> [0..1]  
    <D2LogicalModel:roadConditionsExtension> D2LogicalModel: ExtensionType  
    </D2LogicalModel:roadConditionsExtension> [0..1]  
    <D2LogicalModel:weatherRelatedRoadConditionType>  
      D2LogicalModel:WeatherRelatedRoadConditionTypeEnum  
    </D2LogicalModel:weatherRelatedRoadConditionType> [1] ?  
    <D2LogicalModel:weatherRelatedRoadConditionsExtension>  
      D2LogicalModel: ExtensionType  
    </D2LogicalModel:weatherRelatedRoadConditionsExtension> [0..1]  
  </...>
```

Schema Component Representation

```
<xs:complexType name="WeatherRelatedRoadConditions">  
  <xs:complexContent>  
    <xs:extension base="D2LogicalModel:RoadConditions">  
      <xs:sequence>  
        <xs:element name="weatherRelatedRoadConditionType"  
          type="D2LogicalModel:WeatherRelatedRoadConditionTypeEnum"  
          minOccurs="1" maxOccurs="1"/>  
        <xs:element name="weatherRelatedRoadConditionsExtension"  
          type="D2LogicalModel: ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

Complex Type: **WinterDrivingManagement**

Super-types: [SituationRecord](#) < [OperatorAction](#) (by extension) < [NetworkManagement](#) (by extension) < **WinterDrivingManagement** (by extension)

Sub-types: None

Name	WinterDrivingManagement
Abstract	no
Documentation	Winter driving management action that is instigated by the network/road operator.

XML Instance Representation

```
<...
  id="xs:string [1]"
  version="xs:string [1]">
    <D2LogicalModel:situationRecordCreationTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordCreationTime> [1] ?
    <D2LogicalModel:situationRecordVersionTime> D2LogicalModel:DateTime
    </D2LogicalModel:situationRecordVersionTime> [1] ?
    <D2LogicalModel:probabilityOfOccurrence>
      D2LogicalModel:ProbabilityOfOccurrenceEnum
    </D2LogicalModel:probabilityOfOccurrence> [1] ?
    <D2LogicalModel:validity> D2LogicalModel:Validity
    </D2LogicalModel:validity> [1]
    <D2LogicalModel:impact> D2LogicalModel:Impact </D2LogicalModel:impact>
    [0..1]
    <D2LogicalModel:generalPublicComment> D2LogicalModel:Comment
    </D2LogicalModel:generalPublicComment> [1..*] ?
    <D2LogicalModel:groupOfLocations> D2LogicalModel:GroupOfLocations
    </D2LogicalModel:groupOfLocations> [1]
    <D2LogicalModel:situationRecordExtension> D2LogicalModel: ExtensionType
    </D2LogicalModel:situationRecordExtension> [0..1]
    <D2LogicalModel:operatorActionExtension> D2LogicalModel: ExtensionType
    </D2LogicalModel:operatorActionExtension> [0..1]
    <D2LogicalModel:complianceOption> D2LogicalModel:ComplianceOptionEnum
    </D2LogicalModel:complianceOption> [1] ?
    <D2LogicalModel:forVehiclesWithCharacteristicsOf>
      D2LogicalModel:VehicleCharacteristics
    </D2LogicalModel:forVehiclesWithCharacteristicsOf> [0..1] ?
    <D2LogicalModel:networkManagementExtension>
      D2LogicalModel: ExtensionType
    </D2LogicalModel:networkManagementExtension> [0..1]
    <D2LogicalModel:winterEquipmentManagementType>
      D2LogicalModel:WinterEquipmentManagementTypeEnum
    </D2LogicalModel:winterEquipmentManagementType> [1] ?
    <D2LogicalModel:winterDrivingManagementExtension>
      D2LogicalModel: ExtensionType
    </D2LogicalModel:winterDrivingManagementExtension> [0..1]
  </...>
```

Schema Component Representation

```
<xs:complexType name="WinterDrivingManagement">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:NetworkManagement">
      <xs:sequence>
        <xs:element name="winterEquipmentManagementType"
          type="D2LogicalModel:WinterEquipmentManagementTypeEnum"
          minOccurs="1" maxOccurs="1"/>
        <xs:element name="winterDrivingManagementExtension"
```

```

        type="D2LogicalModel: ExtensionType" minOccurs="0"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</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](#)

Simple Type: **AbnormalTrafficTypeEnum**

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

Name AbnormalTrafficTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'stationaryTraffic'|'queuingTraffic'|'slowTraffic'|'heavyTraffic'|'unspecifiedAbnormalTraf

Documentation Collection of descriptive terms for abnormal traffic conditions specifically relating to the nature of the traffic movement.

Schema Component Representation

```

<xs:simpleType name="AbnormalTrafficTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="stationaryTraffic"/>
    <xs:enumeration value="queuingTraffic"/>
    <xs:enumeration value="slowTraffic"/>
    <xs:enumeration value="heavyTraffic"/>
    <xs:enumeration value="unspecifiedAbnormalTraffic"/>
  </xs:restriction>
</xs:simpleType>

```


Simple Type: **AccidentTypeEnum**

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

Sub-types: None

Name AccidentTypeEnum

Content

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

Documentation Collection of descriptive terms for types of accidents.

Schema Component Representation

```
<xs:simpleType name="AccidentTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="accident"/>
  </xs:restriction>
</xs:simpleType>
```

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>
```

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Simple Type: **AnimalPresenceTypeEnum**

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

Sub-types: None

Name AnimalPresenceTypeEnum

Content

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

Documentation Types of animal presence.

Schema Component Representation

```
<xs:simpleType name="AnimalPresenceTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="animalsOnTheRoad"/>
  </xs:restriction>
</xs:simpleType>
```

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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: **CommentTypeEnum**

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

Sub-types: None

Name CommentTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: { 'description' | 'locationDescriptor' | 'other' }

Documentation Classification of comment types.

Schema Component Representation

```
<xs:simpleType name="CommentTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="description"/>
    <xs:enumeration value="locationDescriptor"/>
    <xs:enumeration value="other"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type: **ComplianceOptionEnum**

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

Sub-types: None

Name ComplianceOptionEnum

Content

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

Documentation Types of compliance.

Schema Component Representation

```
<xs:simpleType name="ComplianceOptionEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="mandatory"/>
  </xs:restriction>
</xs:simpleType>
```

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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>
```

[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'|'restrictedToAuthoritiesAndTraffic'

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'

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: **DisturbanceActivityTypeEnum**

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

Sub-types: None

Name DisturbanceActivityTypeEnum

Content

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

Documentation Types of disturbance activities.

Schema Component Representation

```
<xs:simpleType name="DisturbanceActivityTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="other"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **EnvironmentalObstructionTypeEnum**

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

Sub-types: None

Name EnvironmentalObstructionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'fallenTrees'|'flooding'|'landslips'}

Documentation Types of environmental obstructions.

Schema Component Representation

```
<xs:simpleType name="EnvironmentalObstructionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="fallenTrees"/>
    <xs:enumeration value="flooding"/>
    <xs:enumeration value="landslips"/>
  </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 $m \times 2^e$, where m is an integer whose absolute value is less than 2^{24} , and e is an integer between -149 and 104, inclusive.

Schema Component Representation

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

[top](#)

Simple Type: **GeneralInstructionToRoadUsersTypeEnum**

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

Sub-types: None

Name GeneralInstructionToRoadUsersTypeEnum

Content

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

Documentation General instructions that may be issued to road users (specifically drivers and sometimes passengers) by an operator or operational system in support of network management activities or emergency situations.

Schema Component Representation

```
<xs:simpleType name="GeneralInstructionToRoadUsersTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="approachWithCare"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **GeneralNetworkManagementTypeEnum**

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

Sub-types: None

Name GeneralNetworkManagementTypeEnum

Content

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

Schema Component Representation

```
<xs:simpleType name="GeneralNetworkManagementTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="other"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: InformationStatusEnum

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

Sub-types: None

Name	InformationStatusEnum
Content	<ul style="list-style-type: none">Base XSD Type: stringvalue 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: InfrastructureDamageTypeEnum

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

Sub-types: None

Name	InfrastructureDamageTypeEnum
Content	<ul style="list-style-type: none">Base XSD Type: stringvalue comes from list: {'damagedRoadSurface'}
Documentation	Types of infrastructure damage which may have an effect on the road network.

Schema Component Representation

```
<xs:simpleType name="InfrastructureDamageTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="damagedRoadSurface"/>
  </xs:restriction>
</xs:simpleType>
```

```
</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: **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: **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>
```

[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: MultilingualStringValue

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

Sub-types:

- [MultilingualStringValue](#) (by extension)

Name MultilingualStringValue

Content

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

Schema Component Representation

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

[top](#)

Simple Type: **NonNegativeInteger**

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

Sub-types:

- [AlertCLocationCode](#) (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: **NonWeatherRelatedRoadConditionTypeEnum**

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

Sub-types: None

Name NonWeatherRelatedRoadConditionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'oilOnRoad'|'slipperyRoad'}

Documentation Types of road surface conditions which are not related to the weather.

Schema Component Representation

```
<xs:simpleType name="NonWeatherRelatedRoadConditionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="oilOnRoad"/>
    <xs:enumeration value="slipperyRoad"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **ObstructionTypeEnum**

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

Sub-types: None

Name ObstructionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'incident'|'obstructionOnTheRoad'|'recklessDriver'|'shedLoad'|'spillageOnTheRoad'|'ot

Documentation Types of obstructions on the roadway.

Schema Component Representation

```
<xs:simpleType name="ObstructionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="incident"/>
    <xs:enumeration value="obstructionOnTheRoad"/>
    <xs:enumeration value="recklessDriver"/>
    <xs:enumeration value="shedLoad"/>
    <xs:enumeration value="spillageOnTheRoad"/>
    <xs:enumeration value="other"/>
  </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**

<i>Super-types:</i>	xs:float < Float (by restriction) < Percentage (by restriction)
<i>Sub-types:</i>	None

Name	Percentage
Content	<ul style="list-style-type: none">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: **PoorEnvironmentTypeEnum**

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

Name	PoorEnvironmentTypeEnum
Content	<ul style="list-style-type: none">Base XSD Type: string<i>value</i> comes from list: {'fog' 'gales' 'gustyWinds' 'hail' 'heavySnowfall' 'thunderstorms'}
Documentation	Types of poor environmental conditions.

Schema Component Representation

```
<xs:simpleType name="PoorEnvironmentTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="fog"/>
    <xs:enumeration value="gales"/>
    <xs:enumeration value="gustyWinds"/>
    <xs:enumeration value="hail"/>
    <xs:enumeration value="heavySnowfall"/>
    <xs:enumeration value="thunderstorms"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **ProbabilityOfOccurrenceEnum**

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

Name	ProbabilityOfOccurrenceEnum
-------------	-----------------------------

Content

- Base XSD Type: string
- *value* comes from list: {'certain'|'probable'|'riskOf'}

Documentation

Levels of confidence that the sender has in the information, ordered {certain, probable, risk of}.

Schema Component Representation

```
<xs:simpleType name="ProbabilityOfOccurrenceEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="certain"/>
    <xs:enumeration value="probable"/>
    <xs:enumeration value="riskOf"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **PublicEventTypeEnum**

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

Sub-types: None

Name PublicEventTypeEnum

Content

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

Documentation

Types of public events.

Schema Component Representation

```
<xs:simpleType name="PublicEventTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="majorEvent"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **RoadMaintenanceTypeEnum**

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

Sub-types: None

Name RoadMaintenanceTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'grassCuttingWork'|'maintenanceWork'|'repairWork'|'roadMarkingWork'|'roadworks'|'t

Documentation

Types of road maintenance.

Schema Component Representation

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

```

<xs:restriction base="xs:string">
  <xs:enumeration value="grassCuttingWork"/>
  <xs:enumeration value="maintenanceWork"/>
  <xs:enumeration value="repairWork"/>
  <xs:enumeration value="roadMarkingWork"/>
  <xs:enumeration value="roadworks"/>
  <xs:enumeration value="treeAndVegetationCuttingWork"/>
</xs:restriction>
</xs:simpleType>

```

[top](#)

Simple Type: RoadOrCarriagewayOrLaneManagementTypeEnum

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

Sub-types: None

Name RoadOrCarriagewayOrLaneManagementTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'closedPermanentlyForTheWinter'|'contraflow'|'intermittentShortTermClosures'|'laneCl

Documentation Management actions relating to road, carriageway or lane usage.

Schema Component Representation

```

<xs:simpleType name="RoadOrCarriagewayOrLaneManagementTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="closedPermanentlyForTheWinter"/>
    <xs:enumeration value="contraflow"/>
    <xs:enumeration value="intermittentShortTermClosures"/>
    <xs:enumeration value="laneClosures"/>
    <xs:enumeration value="roadCleared"/>
    <xs:enumeration value="roadClosed"/>
    <xs:enumeration value="singleAlternateLineTraffic"/>
  </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>

```


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>
```

Simple Type: **TrafficConstrictionTypeEnum**

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

Sub-types: None

Name TrafficConstrictionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'carriagewayBlocked'|'lanesBlocked'|'lanesPartiallyObstructed'|'roadBlocked'|'roadPa

Documentation Types of constriction to which traffic is subjected as a result of an event.

Schema Component Representation

```
<xs:simpleType name="TrafficConstrictionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="carriagewayBlocked"/>
    <xs:enumeration value="lanesBlocked"/>
    <xs:enumeration value="lanesPartiallyObstructed"/>
    <xs:enumeration value="roadBlocked"/>
    <xs:enumeration value="roadPartiallyObstructed"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type: **TrafficStatusEnum**

Sub-types: None

Content

- | | |
|----------------------|--|
| Documentation | List of terms used to describe traffic conditions. |
|----------------------|--|

```
<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: `ValidityStatusEnum`

Sub-types: None

Content

- | | |
|----------------------|--|
| Documentation | Values of validity status that can be assigned to a described event, action or item. |
|----------------------|--|

```
<xs:simpleType name="ValidityStatusEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="definedByValidityTimeSpec"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type: `VehicleObstructionTypeEnum`

Sub-types: None

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Content

- Base XSD Type: string
- *value* comes from list:
{'brokenDownHeavyLorry'|'brokenDownVehicle'|'damagedVehicle'|'snowplough'|'vehicle'}

Documentation Types of obstructions involving vehicles.

Schema Component Representation

```
<xs:simpleType name="VehicleObstructionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="brokenDownHeavyLorry"/>
    <xs:enumeration value="brokenDownVehicle"/>
    <xs:enumeration value="damagedVehicle"/>
    <xs:enumeration value="snowplough"/>
    <xs:enumeration value="vehicleOnWrongCarriageway"/>
    <xs:enumeration value="vehicleStuck"/>
    <xs:enumeration value="vehicleWithOverwideLoad"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: `VehicleTypeEnum`

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

Sub-types: None

Name	VehicleTypeEnum
------	-----------------

Content

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

Documentation Types of vehicle.

Schema Component Representation

```
<xs:simpleType name="VehicleTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="lorry"/>
  </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.
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
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79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Schema Component Representation

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

[top](#)

Simple Type: **WeatherRelatedRoadConditionTypeEnum**

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

Name WeatherRelatedRoadConditionTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'ice'|'snowDrifts'|'snowOnTheRoad'}

Documentation Types of road surface conditions which are related to the weather.

Schema Component Representation

```
<xs:simpleType name="WeatherRelatedRoadConditionTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ice"/>
    <xs:enumeration value="snowDrifts"/>
    <xs:enumeration value="snowOnTheRoad"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **WinterEquipmentManagementTypeEnum**

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

Name WinterEquipmentManagementTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'useSnowChains'|'useSnowChainsOrTyres'}

Documentation Instructions relating to the use of winter equipment.

Schema Component Representation

```
<xs:simpleType name="WinterEquipmentManagementTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="useSnowChains"/>
    <xs:enumeration value="useSnowChainsOrTyres"/>
  </xs:restriction>
</xs:simpleType>
```

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