

Realis ITS

Version 05.03.2020

DatexII 2.3 profile realiscounters-1.0

DatexII 2.3 Profile realiscounters 1.0

Table of Contents

- [Schema Document Properties](#)
- [Global Declarations](#)
 - [Element: d2LogicalModel](#)
- [Global Definitions](#)
 - [Complex Type: AffectedCarriagewayAndLanes](#)
 - [Complex Type: AlertCDirection](#)
 - [Complex Type: AlertCLocation](#)
 - [Complex Type: AlertCMethod4Point](#)
 - [Complex Type: AlertCMethod4PrimaryPointLocation](#)
 - [Complex Type: AlertCPoint](#)
 - [Complex Type: ApplicationRateValue](#)
 - [Complex Type: AxleFlowValue](#)
 - [Complex Type: BasicData](#)
 - [Complex Type: ConcentrationOfVehiclesValue](#)
 - [Complex Type: D2LogicalModel](#)
 - [Complex Type: DataValue](#)
 - [Complex Type: DateTimeValue](#)
 - [Complex Type: DirectionBearingValue](#)
 - [Complex Type: DirectionCompassValue](#)
 - [Complex Type: DistanceAlongLinearElement](#)
 - [Complex Type: DistanceFromLinearElementStart](#)
 - [Complex Type: DurationValue](#)
 - [Complex Type: ElaboratedData](#)
 - [Complex Type: ElaboratedDataFault](#)
 - [Complex Type: ElaboratedDataPublication](#)
 - [Complex Type: Exchange](#)
 - [Complex Type: Fault](#)
 - [Complex Type: FloatingPointMetreDistanceValue](#)
 - [Complex Type: GroupOfLocations](#)
 - [Complex Type: HeaderInformation](#)
 - [Complex Type: IntegerMetreDistanceValue](#)
 - [Complex Type: InternationalIdentifier](#)
 - [Complex Type: KilogramsConcentrationValue](#)
 - [Complex Type: LinearElement](#)
 - [Complex Type: LinearElementByCode](#)
 - [Complex Type: Location](#)
 - [Complex Type: MicrogramsConcentrationValue](#)
 - [Complex Type: MultilingualString](#)
 - [Complex Type: MultilingualStringValue](#)
 - [Complex Type: NetworkLocation](#)
 - [Complex Type: OccupancyChangeValue](#)
 - [Complex Type: OffsetDistance](#)
 - [Complex Type: OpenIrBaseLocationReferencePoint](#)
 - [Complex Type: OpenIrBasePointLocation](#)
 - [Complex Type: OpenIrExtendedPoint](#)
 - [Complex Type: OpenIrGeoCoordinate](#)
 - [Complex Type: OpenIrLastLocationReferencePoint](#)
 - [Complex Type: OpenIrLineAttributes](#)
 - [Complex Type: OpenIrLocationReferencePoint](#)
 - [Complex Type: OpenIrPathAttributes](#)
 - [Complex Type: OpenIrPoiWithAccessPoint](#)
 - [Complex Type: OpenIrPointAlongLine](#)
 - [Complex Type: OpenIrPointLocationReference](#)
 - [Complex Type: PayloadPublication](#)
 - [Complex Type: PcuFlowValue](#)
 - [Complex Type: PercentageValue](#)
 - [Complex Type: Point](#)
 - [Complex Type: PointAlongLinearElement](#)
 - [Complex Type: PointByCoordinates](#)
 - [Complex Type: PointCoordinates](#)
 - [Complex Type: PrecipitationIntensityValue](#)
 - [Complex Type: Source](#)
 - [Complex Type: SpeedPercentile](#)
 - [Complex Type: SpeedValue](#)
 - [Complex Type: SupplementaryPositionalDescription](#)
 - [Complex Type: TemperatureValue](#)
 - [Complex Type: TpegAreaDescriptor](#)
 - [Complex Type: TpegDescriptor](#)
 - [Complex Type: TrafficConcentration](#)
 - [Complex Type: TrafficData](#)
 - [Complex Type: TrafficFlow](#)
 - [Complex Type: TrafficHeadway](#)
 - [Complex Type: TrafficSpeed](#)
 - [Complex Type: TrafficStatusValue](#)
 - [Complex Type: VehicleCountValue](#)
 - [Complex Type: VehicleFlowValue](#)
 - [Complex Type: ExtensionType](#)
 - [Complex Type: PointExtensionType](#)
 - [Simple Type: AlertCDirectionEnum](#)
 - [Simple Type: AlertCLocationCode](#)
 - [Simple Type: AngleInDegrees](#)
 - [Simple Type: AreaOfInterestEnum](#)
 - [Simple Type: AxlesPerHour](#)
 - [Simple Type: Boolean](#)
 - [Simple Type: CarriagewayEnum](#)
 - [Simple Type: ComputationMethodEnum](#)
 - [Simple Type: ConcentrationKilogramsPerCubicMetre](#)
 - [Simple Type: ConcentrationMicrogramsPerCubicMetre](#)
 - [Simple Type: ConcentrationVehiclesPerKilometre](#)
 - [Simple Type: ConfidentialityValueEnum](#)
 - [Simple Type: CountryEnum](#)
 - [Simple Type: DateTime](#)
 - [Simple Type: DirectionCompassEnum](#)
 - [Simple Type: ElaboratedDataFaultEnum](#)
 - [Simple Type: FaultSeverityEnum](#)
 - [Simple Type: Float](#)
 - [Simple Type: InformationStatusEnum](#)

- [Simple Type: Integer](#)
- [Simple Type: IntensityKilogramsPerSquareMetre](#)
- [Simple Type: IntensityMillimetresPerHour](#)
- [Simple Type: KilometresPerHour](#)
- [Simple Type: LaneEnum](#)
- [Simple Type: Language](#)
- [Simple Type: LinearReferencingDirectionEnum](#)
- [Simple Type: LocationDescriptorEnum](#)
- [Simple Type: MetresAsFloat](#)
- [Simple Type: MetresAsNonNegativeInteger](#)
- [Simple Type: MultilingualStringValue](#)
- [Simple Type: NonNegativeInteger](#)
- [Simple Type: OpenIrFormOfWayEnum](#)
- [Simple Type: OpenIrFunctionalRoadClassEnum](#)
- [Simple Type: OpenIrOrientationEnum](#)
- [Simple Type: OpenIrSideOfRoadEnum](#)
- [Simple Type: PassengerCarUnitsPerHour](#)
- [Simple Type: Percentage](#)
- [Simple Type: Seconds](#)
- [Simple Type: SourceTypeEnum](#)
- [Simple Type: String](#)
- [Simple Type: TemperatureCelsius](#)
- [Simple Type: TimePrecisionEnum](#)
- [Simple Type: TpegLoc03AreaDescriptorSubtypeEnum](#)
- [Simple Type: TrafficStatusEnum](#)
- [Simple Type: UrgencyEnum](#)
- [Simple Type: VehiclesPerHour](#)

[top](#)

Schema Document Properties

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

Element and Attribute Namespaces

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

Declared Namespaces

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

Schema Component Representation

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

[top](#)

Global Declarations

Element: **d2LogicalModel**

Name	d2LogicalModel
Type	D2LogicalModel:D2LogicalModel
Nilable	no
Abstract	no

XML Instance Representation

```
<D2LogicalModel:d2LogicalModel
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]
</D2LogicalModel:d2LogicalModel>
```

Schema Component Representation

```
<xs:element name="d2LogicalModel" type="D2LogicalModel:D2LogicalModel"/>
```

[top](#)

Global Definitions

Complex Type: **AffectedCarriagewayAndLanes**

Super-types:	None
Sub-types:	None

Name	AffectedCarriagewayAndLanes
Abstract	no
Documentation	Supplementary positional information which details carriageway and lane locations. Several instances may exist where the element being described extends over more than one carriageway.

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: AlertCDirection

Super-types: None
Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: AlertCLocation

Super-types: None
Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: AlertCMethod4Point

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

Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: AlertCMethod4PrimaryPointLocation

Super-types: None
Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: AlertCPoint

Super-types: None
Sub-types:

- [AlertCMethod4Point](#) (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: ApplicationRateValue

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

Sub-types: None

Name ApplicationRateValue
Abstract no
Documentation A measured or calculated value of the application rate of a substance.

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:applicationRate> D2LogicalModel:IntensityKilogramsPerSquareMetre </D2LogicalModel:applicationRate>
  [1] ?
  <D2LogicalModel:applicationRateValueExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:applicationRateValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ApplicationRateValue">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DataValue">
      <xs:sequence>
        <xs:element name="applicationRate" type="D2LogicalModel:IntensityKilogramsPerSquareMetre" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="applicationRateValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: AxleFlowValue

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

Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

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

[top](#)

Complex Type: **BasicData**

Super-types: None

Sub-types:

- [TrafficData](#) (by extension)
 - [TrafficConcentration](#) (by extension)
 - [TrafficFlow](#) (by extension)
 - [TrafficHeadway](#) (by extension)
 - [TrafficSpeed](#) (by extension)

Name BasicData

Abstract yes

Documentation Data that is either measured or calculated (elaborated) at the same time or over the same time period.

XML Instance Representation

```
<...
  measurementOrCalculatedTimePrecision="D2LogicalModel:TimePrecisionEnum [0..1] ?">
  <D2LogicalModel:measurementOrCalculationPeriod> D2LogicalModel:Seconds
</D2LogicalModel:measurementOrCalculationPeriod> [0..1] ?
  <D2LogicalModel:measurementOrCalculationTime> D2LogicalModel:DateTime
</D2LogicalModel:measurementOrCalculationTime> [0..1] ?
  <D2LogicalModel:pertinentLocation> D2LogicalModel:GroupOfLocations </D2LogicalModel:pertinentLocation> [0..1] ?
  <D2LogicalModel:basicDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:basicDataExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="BasicData" abstract="true">
  <xs:sequence>
    <xs:element name="measurementOrCalculationPeriod" type="D2LogicalModel:Seconds" minOccurs="0" maxOccurs="1"/>
    <xs:element name="measurementOrCalculationTime" type="D2LogicalModel:DateTime" minOccurs="0" maxOccurs="1"/>
    <xs:element name="pertinentLocation" type="D2LogicalModel:GroupOfLocations" minOccurs="0"/>
    <xs:element name="basicDataExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="measurementOrCalculatedTimePrecision" type="D2LogicalModel:TimePrecisionEnum" use="optional"/>
</xs:complexType>
```

[top](#)

Complex Type: **ConcentrationOfVehiclesValue**

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

Sub-types: None

Name ConcentrationOfVehiclesValue

Abstract no

Documentation A measured or calculated value of the concentration of vehicles on a unit stretch of road in a given direction.

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **D2LogicalModel**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **DataValue**

Super-types:	None
Sub-types:	<ul style="list-style-type: none"> • ApplicationRateValue (by extension) • AxleFlowValue (by extension) • ConcentrationOfVehiclesValue (by extension) • DateTimeValue (by extension) • DirectionBearingValue (by extension) • DirectionCompassValue (by extension) • DurationValue (by extension) • FloatingPointMetreDistanceValue (by extension) • IntegerMetreDistanceValue (by extension) • KilogramsConcentrationValue (by extension) • MicrogramsConcentrationValue (by extension) • OccupancyChangeValue (by extension) • PcuFlowValue (by extension) • PercentageValue (by extension) • PrecipitationIntensityValue (by extension) • SpeedValue (by extension) • TemperatureValue (by extension) • TrafficStatusValue (by extension) • VehicleCountValue (by extension) • VehicleFlowValue (by extension)
Name	DataValue
Abstract	yes
Documentation	A data value of something that can be measured or calculated. Any provided meta-data values specified in the attributes override any specified generic characteristics such as defined for a specific measurement in the MeasurementSiteTable.

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **DateTimeValue**

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **DirectionBearingValue**

Super-types: [DataValue](#) < **DirectionBearingValue** (by extension)
Sub-types: None

Name DirectionBearingValue
Abstract no
Documentation A measured or calculated value of direction as a bearing.

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:directionBearing> D2LogicalModel:AngleInDegrees </D2LogicalModel:directionBearing> [1] ?  
  <D2LogicalModel:directionBearingValueExtension> D2LogicalModel:_ExtensionType  
  </D2LogicalModel:directionBearingValueExtension> [0..1]  
</...>
```

Schema Component Representation

```
<xs:complexType name="DirectionBearingValue">  
  <xs:complexContent>  
    <xs:extension base="D2LogicalModel:DataValue">  
      <xs:sequence>  
        <xs:element name="directionBearing" type="D2LogicalModel:AngleInDegrees" minOccurs="1" maxOccurs="1"/>  
        <xs:element name="directionBearingValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

[top](#)

Complex Type: **DirectionCompassValue**

Super-types: [DataValue](#) < **DirectionCompassValue** (by extension)
Sub-types: None

Name DirectionCompassValue

Abstract	no
Documentation	A measured or calculated value of direction as a point of the compass.

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:directionCompass> D2LogicalModel:DirectionCompassEnum </D2LogicalModel:directionCompass> [1] ?
  <D2LogicalModel:directionCompassValueExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:directionCompassValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DirectionCompassValue">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DataValue">
      <xs:sequence>
        <xs:element name="directionCompass" type="D2LogicalModel:DirectionCompassEnum" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="directionCompassValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: DistanceAlongLinearElement

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: DistanceFromLinearElementStart

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

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

XML Instance Representation

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

Schema Component Representation

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

```

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

```

[top](#)

Complex Type: DurationValue

Super-types: [DataValue](#) < DurationValue (by extension)
 Sub-types: None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: ElaboratedData

Super-types: None
 Sub-types: None

Name ElaboratedData
Abstract no
Documentation An instance of data which is derived/computed from one or more measurements over a period of time. It may be a current value or a forecast value predicted from historical measurements.

XML Instance Representation

```

<...>
  <D2LogicalModel:source> D2LogicalModel:Source </D2LogicalModel:source> [0..1]
  <D2LogicalModel:elaboratedDataFault> D2LogicalModel:ElaboratedDataFault </D2LogicalModel:elaboratedDataFault>
  [0..*]
  <D2LogicalModel:basicData> D2LogicalModel:BasicData </D2LogicalModel:basicData> [0..1]
  <D2LogicalModel:elaboratedDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:elaboratedDataExtension>
  [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="ElaboratedData">
  <xs:sequence>
    <xs:element name="source" type="D2LogicalModel:Source" minOccurs="0"/>
    <xs:element name="elaboratedDataFault" type="D2LogicalModel:ElaboratedDataFault" minOccurs="0"
      maxOccurs="unbounded"/>
    <xs:element name="basicData" type="D2LogicalModel:BasicData" minOccurs="0"/>
    <xs:element name="elaboratedDataExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

[top](#)

Complex Type: ElaboratedDataFault

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

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

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="ElaboratedDataFault">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:Fault">
      <xs:sequence>
        <xs:element name="elaboratedDataFault" type="D2LogicalModel:ElaboratedDataFaultEnum" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="elaboratedDataFaultExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: ElaboratedDataPublication

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

Name	ElaboratedDataPublication
Abstract	no
Documentation	A publication containing one or more elaborated data sets.

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="ElaboratedDataPublication">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:PayloadPublication">
      <xs:sequence>
        <xs:element name="headerInformation" type="D2LogicalModel:HeaderInformation"/>
        <xs:element name="elaboratedData" type="D2LogicalModel:ElaboratedData" maxOccurs="unbounded"/>
        <xs:element name="elaboratedDataPublicationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: Exchange

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

```

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

```

[top](#)

Complex Type: Fault

Super-types: None

Sub-types:

- [ElaboratedDataFault](#) (by extension)

Name Fault

Abstract no

Documentation Information about a fault relating to a specific piece of equipment or process.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: FloatingPointMetreDistanceValue

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

Sub-types: None

Name FloatingPointMetreDistanceValue

Abstract no

Documentation A measured or calculated value of distance in metres in a floating point format.

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:floatingPointMetreDistance> D2LogicalModel:MetresAsFloat
  </D2LogicalModel:floatingPointMetreDistance> [1] ?
  <D2LogicalModel:floatingPointMetreDistanceValueExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:floatingPointMetreDistanceValueExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="FloatingPointMetreDistanceValue">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DataValue">
      <xs:sequence>
        <xs:element name="floatingPointMetreDistance" type="D2LogicalModel:MetresAsFloat" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="floatingPointMetreDistanceValueExtension" type="D2LogicalModel:_ExtensionType"
          minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: GroupOfLocations

Super-types:	None
Sub-types:	<ul style="list-style-type: none"> • Location (by extension) <ul style="list-style-type: none"> ◦ NetworkLocation (by extension) <ul style="list-style-type: none"> ▪ Point (by extension)

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **HeaderInformation**

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **IntegerMetreDistanceValue**

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

Name	IntegerMetreDistanceValue
Abstract	no
Documentation	A measured or calculated value of distance in whole metres.

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:integerMetreDistance> D2LogicalModel:MetresAsNonNegativeInteger
</D2LogicalModel:integerMetreDistance> [1] ?
  <D2LogicalModel:integerMetreDistanceValueExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:integerMetreDistanceValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="IntegerMetreDistanceValue">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DataValue">
      <xs:sequence>
        <xs:element name="integerMetreDistance" type="D2LogicalModel:MetresAsNonNegativeInteger" minOccurs="1"
          maxOccurs="1"/>
        <xs:element name="integerMetreDistanceValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: InternationalIdentifier

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: KilogramsConcentrationValue

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

Name	KilogramsConcentrationValue
Abstract	no
Documentation	A measured or calculated value of concentration of a substance in grams per unit volume.

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:kilogramsConcentration> D2LogicalModel:ConcentrationKilogramsPerCubicMetre
  </D2LogicalModel:kilogramsConcentration> [1] ?
  <D2LogicalModel:kilogramsConcentrationValueExtension> D2LogicalModel:_ExtensionType
  </D2LogicalModel:kilogramsConcentrationValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="KilogramsConcentrationValue">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DataValue">
      <xs:sequence>
        <xs:element name="kilogramsConcentration" type="D2LogicalModel:ConcentrationKilogramsPerCubicMetre"
          minOccurs="1" maxOccurs="1"/>
        <xs:element name="kilogramsConcentrationValueExtension" type="D2LogicalModel:_ExtensionType"
          minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: LinearElement

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **LinearElementByCode**

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

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **Location**

Super-types:	GroupOfLocations < Location (by extension)
Sub-types:	<ul style="list-style-type: none"> • NetworkLocation (by extension) <ul style="list-style-type: none"> ◦ Point (by extension)

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

XML Instance Representation

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

Schema Component Representation

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



```

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

```

[top](#)

Complex Type: MicrogramsConcentrationValue

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

Sub-types: None

Name MicrogramsConcentrationValue

Abstract no

Documentation A measured or calculated value of concentration of a substance in micrograms per unit volume.

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:microgramsConcentration> D2LogicalModel:ConcentrationMicrogramsPerCubicMetre
  </D2LogicalModel:microgramsConcentration> [1] ?
  <D2LogicalModel:microgramsConcentrationValueExtension> D2LogicalModel:ExtensionType
  </D2LogicalModel:microgramsConcentrationValueExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="MicrogramsConcentrationValue">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DataValue">
      <xs:sequence>
        <xs:element name="microgramsConcentration" type="D2LogicalModel:ConcentrationMicrogramsPerCubicMetre"
          minOccurs="1" maxOccurs="1"/>
        <xs:element name="microgramsConcentrationValueExtension" 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:

- [Point](#) (by extension)

Name NetworkLocation

Abstract yes

Documentation The specification of a location on a network (as a point or a linear location).

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: OccupancyChangeValue

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

Sub-types: None

Name OccupancyChangeValue

Abstract no

Documentation A measured or calculated value of change of occupied parking spaces expressed as integer.

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="OccupancyChangeValue">  
  <xs:complexContent>  
    <xs:extension base="D2LogicalModel:DataValue">  
      <xs:sequence>  
        <xs:element name="occupancyChange" type="D2LogicalModel:Integer" minOccurs="1" maxOccurs="1"/>  
        <xs:element name="occupancyChangeValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

```

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

```

[top](#)

Complex Type: **OffsetDistance**

Super-types: None
Sub-types: None

Name OffsetDistance
Abstract no
Documentation The non negative offset distance from the ALERT-C referenced point to the actual point.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: **OpenlrBaseLocationReferencePoint**

Super-types: None
Sub-types:

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

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: **OpenlrBasePointLocation**

Super-types: None
Sub-types:

- [OpenlrPointAlongLine](#) (by extension)
- [OpenlrPoiWithAccessPoint](#) (by extension)

Name OpenlrBasePointLocation
Abstract yes
Documentation Holds common data that are used both in OpenlrPointAccessPoint and OpenlrPointAlongLine.

XML Instance Representation

```

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

```

```

<D2LogicalModel:openlrBasePointLocationExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:openlrBasePointLocationExtension> [0..1]
</...>

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: **OpenlrExtendedPoint**

Super-types:	None
Sub-types:	None

Name	OpenlrExtendedPoint
Abstract	no
Documentation	Extension class for OpenLR point.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: **OpenlrGeoCoordinate**

Super-types:	None
Sub-types:	None

Name	OpenlrGeoCoordinate
Abstract	no
Documentation	A geo-coordinate pair is a position in a map defined by its longitude and latitude coordinate values.

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: **OpenlrLastLocationReferencePoint**

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

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

XML Instance Representation

```

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

```

```

<D2LogicalModel:openlrLastLocationReferencePointExtension> D2LogicalModel: _ExtensionType
</D2LogicalModel:openlrLastLocationReferencePointExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="OpenlrLastLocationReferencePoint">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:OpenlrBaseLocationReferencePoint">
      <xs:sequence>
        <xs:element name="openlrLastLocationReferencePointExtension" type="D2LogicalModel: _ExtensionType"
          minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: OpenlrLineAttributes

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrLocationReferencePoint

Super-types:	OpenlrBaseLocationReferencePoint < OpenlrLocationReferencePoint (by extension)
Sub-types:	None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrPathAttributes

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrPoiWithAccessPoint

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

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

XML Instance Representation

```

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

```

Schema Component Representation

```

<xs:complexType name="OpenlrPoiWithAccessPoint">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:OpenlrBasePointLocation">
      <xs:sequence>
        <xs:element name="openlrCoordinate" type="D2LogicalModel:PointCoordinates"/>
        <xs:element name="openlrPoiWithAccessPointExtension" type="D2LogicalModel: _ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: OpenlrPointAlongLine

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

Name	OpenlrPointAlongLine
Abstract	no
Documentation	Point along a line

XML Instance Representation

```

<...>
  <D2LogicalModel:openlrSideOfRoad> D2LogicalModel:OpenlrSideOfRoadEnum </D2LogicalModel:openlrSideOfRoad> [1] ?
  <D2LogicalModel:openlrOrientation> D2LogicalModel:OpenlrOrientationEnum </D2LogicalModel:openlrOrientation> [1] ?
  <D2LogicalModel:openlrPositiveOffset> D2LogicalModel:MetresAsNonNegativeInteger
</D2LogicalModel:openlrPositiveOffset> [0..1] ?

```

```

<D2LogicalModel:openlrLocationReferencePoint> D2LogicalModel:OpenlrLocationReferencePoint
</D2LogicalModel:openlrLocationReferencePoint> [1]
<D2LogicalModel:openlrLastLocationReferencePoint> D2LogicalModel:OpenlrLastLocationReferencePoint
</D2LogicalModel:openlrLastLocationReferencePoint> [1]
<D2LogicalModel:openlrBasePointLocationExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:openlrBasePointLocationExtension> [0..1]
<D2LogicalModel:openlrPointAlongLineExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:openlrPointAlongLineExtension> [0..1]
</...>

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: OpenlrPointLocationReference

Super-types:	None
Sub-types:	None

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: PayloadPublication

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

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

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: PcuFlowValue

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

Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="PcuFlowValue">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DataValue">
      <xs:sequence>
        <xs:element name="pcuFlowRate" type="D2LogicalModel:PassengerCarUnitsPerHour" minOccurs="1" maxOccurs="1"/>
        <xs:element name="pcuFlowValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: PercentageValue

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

Sub-types: None

Name PercentageValue
Abstract no
Documentation A measured or calculated value expressed as a percentage.

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:percentage> D2LogicalModel:Percentage </D2LogicalModel:percentage> [1] ?
  <D2LogicalModel:percentageValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:percentageValueExtension>
  [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PercentageValue">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DataValue">
      <xs:sequence>
        <xs:element name="percentage" type="D2LogicalModel:Percentage" minOccurs="1" maxOccurs="1"/>
        <xs:element name="percentageValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: Point

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

Sub-types: None

Name Point

Abstract	no
Documentation	A single geospatial point.

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: PointAlongLinearElement

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: PointByCoordinates

Super-types:	None
Sub-types:	None

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

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="PointByCoordinates">
  <xs:sequence>
```

```

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

```

[top](#)

Complex Type: PointCoordinates

Super-types: None
Sub-types: None

Name PointCoordinates
Abstract no
Documentation A pair of coordinates defining the geodetic position of a single point using the European Terrestrial Reference System 1989 (ETRS89).

XML Instance Representation

```

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

```

Schema Component Representation

```

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

```

[top](#)

Complex Type: PrecipitationIntensityValue

Super-types: [DataValue](#) < PrecipitationIntensityValue (by extension)
Sub-types: None

Name PrecipitationIntensityValue
Abstract no
Documentation A measured or calculated value of the accumulation rate of precipitation.

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:millimetresPerHourIntensity> D2LogicalModel:IntensityMillimetresPerHour
</D2LogicalModel:millimetresPerHourIntensity> [1] ?
  <D2LogicalModel:precipitationIntensityValueExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:precipitationIntensityValueExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="PrecipitationIntensityValue">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DataValue">
      <xs:sequence>
        <xs:element name="millimetresPerHourIntensity" type="D2LogicalModel:IntensityMillimetresPerHour"
          minOccurs="1" maxOccurs="1"/>
        <xs:element name="precipitationIntensityValueExtension" type="D2LogicalModel:_ExtensionType"
          minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: Source

Super-types: None
Sub-types: None

Name Source
Abstract no

XML Instance Representation

```
<...>
  <D2LogicalModel:sourceCountry> D2LogicalModel:CountryEnum </D2LogicalModel:sourceCountry> [0..1] ?
  <D2LogicalModel:sourceIdentification> D2LogicalModel:String </D2LogicalModel:sourceIdentification> [0..1] ?
  <D2LogicalModel:sourceName> D2LogicalModel:MultilingualString </D2LogicalModel:sourceName> [0..1] ?
  <D2LogicalModel:sourceType> D2LogicalModel:SourceTypeEnum </D2LogicalModel:sourceType> [0..1] ?
  <D2LogicalModel:sourceExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:sourceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="Source">
  <xs:sequence>
    <xs:element name="sourceCountry" type="D2LogicalModel:CountryEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="sourceIdentification" type="D2LogicalModel:String" minOccurs="0" maxOccurs="1"/>
    <xs:element name="sourceName" type="D2LogicalModel:MultilingualString" minOccurs="0" maxOccurs="1"/>
    <xs:element name="sourceType" type="D2LogicalModel:SourceTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="sourceExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

[top](#)**Complex Type: SpeedPercentile**

Super-types: None

Sub-types: None

Name SpeedPercentile

Abstract no**Documentation** Details of percentage (from an observation set) of vehicles whose speeds fall below a stated value.**XML Instance Representation**

```
<...>
  <D2LogicalModel:vehiclePercentage> D2LogicalModel:PercentageValue </D2LogicalModel:vehiclePercentage> [1] ?
  <D2LogicalModel:speedPercentile> D2LogicalModel:SpeedValue </D2LogicalModel:speedPercentile> [1] ?
  <D2LogicalModel:speedPercentileExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:speedPercentileExtension>
  [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SpeedPercentile">
  <xs:sequence>
    <xs:element name="vehiclePercentage" type="D2LogicalModel:PercentageValue"/>
    <xs:element name="speedPercentile" type="D2LogicalModel:SpeedValue"/>
    <xs:element name="speedPercentileExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

[top](#)**Complex Type: SpeedValue**Super-types: [DataValue](#) < SpeedValue (by extension)

Sub-types: None

Name SpeedValue

Abstract no**Documentation** A measured or calculated value of speed.**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:speed> D2LogicalModel:KilometresPerHour </D2LogicalModel:speed> [1] ?
  <D2LogicalModel:speedValueExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:speedValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="SpeedValue">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:DataValue">
      <xs:sequence>
        <xs:element name="speed" type="D2LogicalModel:KilometresPerHour" minOccurs="1" maxOccurs="1"/>
        <xs:element name="speedValueExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

[top](#)

Complex Type: **SupplementaryPositionalDescription**

Super-types: None
Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: **TemperatureValue**

Super-types: [DataValue](#) < TemperatureValue (by extension)
Sub-types: None

Name TemperatureValue
Abstract no
Documentation A measured or calculated value of temperature.

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:temperature> D2LogicalModel:TemperatureCelsius </D2LogicalModel:temperature> [1] ?  
    <D2LogicalModel:temperatureValueExtension> D2LogicalModel: _ExtensionType  
    </D2LogicalModel:temperatureValueExtension> [0..1]  
  </...>
```

Schema Component Representation

```
<xs:complexType name="TemperatureValue">  
  <xs:complexContent>  
    <xs:extension base="D2LogicalModel:DataValue">  
      <xs:sequence>  
        <xs:element name="temperature" type="D2LogicalModel:TemperatureCelsius" minOccurs="1" maxOccurs="1"/>  
        <xs:element name="temperatureValueExtension" type="D2LogicalModel: _ExtensionType" minOccurs="0"/>  
      </xs:sequence>  
    </xs:extension>  
  </xs:complexContent>  
</xs:complexType>
```

[top](#)

Complex Type: **TpegAreaDescriptor**

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

Name	TpegAreaDescriptor
Abstract	no
Documentation	A descriptor for describing an area location.

XML Instance Representation

```
<...>
  <D2LogicalModel:descriptor> D2LogicalModel:MultilingualString </D2LogicalModel:descriptor> [1] ?
  <D2LogicalModel:tpegDescriptorExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:tpegDescriptorExtension>
  [0..1]
  <D2LogicalModel:tpegAreaDescriptorType> D2LogicalModel:TpegLoc03AreaDescriptorSubtypeEnum
</D2LogicalModel:tpegAreaDescriptorType> [1] ?
  <D2LogicalModel:tpegAreaDescriptorExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:tpegAreaDescriptorExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TpegAreaDescriptor">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TpegDescriptor">
      <xs:sequence>
        <xs:element name="tpegAreaDescriptorType" type="D2LogicalModel:TpegLoc03AreaDescriptorSubtypeEnum"
          minOccurs="1" maxOccurs="1"/>
        <xs:element name="tpegAreaDescriptorExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

[top](#)

Complex Type: TpegDescriptor

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

Name	TpegDescriptor
Abstract	yes
Documentation	A collection of information providing descriptive references to locations using the TPEG-Loc location referencing approach.

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: TrafficConcentration

Super-types:	BasicData < TrafficData (by extension) < TrafficConcentration (by extension)
Sub-types:	None

Name	TrafficConcentration
Abstract	no
Documentation	Averaged measurements or calculations of traffic concentration.

XML Instance Representation

```
<...
  measurementOrCalculatedTimePrecision="D2LogicalModel:TimePrecisionEnum [0..1] ?">
  <D2LogicalModel:measurementOrCalculationPeriod> D2LogicalModel:Seconds
</D2LogicalModel:measurementOrCalculationPeriod> [0..1] ?
  <D2LogicalModel:measurementOrCalculationTime> D2LogicalModel:DateTime
</D2LogicalModel:measurementOrCalculationTime> [0..1] ?
  <D2LogicalModel:pertinentLocation> D2LogicalModel:GroupOfLocations </D2LogicalModel:pertinentLocation> [0..1] ?
  <D2LogicalModel:basicDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:basicDataExtension> [0..1]
  <D2LogicalModel:trafficDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:trafficDataExtension> [0..1]
  <D2LogicalModel:concentration> D2LogicalModel:ConcentrationOfVehiclesValue </D2LogicalModel:concentration> [0..1]
  ?
  <D2LogicalModel:occupancy> D2LogicalModel:PercentageValue </D2LogicalModel:occupancy> [0..1] ?
  <D2LogicalModel:trafficConcentrationExtension> D2LogicalModel:_ExtensionType
</D2LogicalModel:trafficConcentrationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficConcentration">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TrafficData">
```

```

<xs:sequence>
  <xs:element name="concentration" type="D2LogicalModel:ConcentrationOfVehiclesValue" minOccurs="0"/>
  <xs:element name="occupancy" type="D2LogicalModel:PercentageValue" minOccurs="0"/>
  <xs:element name="trafficConcentrationExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: TrafficData

Super-types: [BasicData](#) < [TrafficData](#) (by extension)

Sub-types:

- [TrafficConcentration](#) (by extension)
- [TrafficFlow](#) (by extension)
- [TrafficHeadway](#) (by extension)
- [TrafficSpeed](#) (by extension)

Name	TrafficData
Abstract	yes
Documentation	Measured or derived values relating to traffic or individual vehicle movements on a specific section or at a specific point on the road network.

XML Instance Representation

```

<...
measurementOrCalculatedTimePrecision="D2LogicalModel:TimePrecisionEnum [0..1] ?">
  <D2LogicalModel:measurementOrCalculationPeriod> D2LogicalModel:Seconds
</D2LogicalModel:measurementOrCalculationPeriod> [0..1] ?
  <D2LogicalModel:measurementOrCalculationTime> D2LogicalModel:DateTime
</D2LogicalModel:measurementOrCalculationTime> [0..1] ?
  <D2LogicalModel:pertinentLocation> D2LogicalModel:GroupOfLocations </D2LogicalModel:pertinentLocation> [0..1] ?
  <D2LogicalModel:basicDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:basicDataExtension> [0..1]
  <D2LogicalModel:trafficDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:trafficDataExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="TrafficData" abstract="true">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:BasicData">
      <xs:sequence>
        <xs:element name="trafficDataExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

[top](#)

Complex Type: TrafficFlow

Super-types: [BasicData](#) < [TrafficData](#) (by extension) < [TrafficFlow](#) (by extension)

Sub-types: None

Name	TrafficFlow
Abstract	no
Documentation	Averaged measurements or calculations of traffic flow rates.

XML Instance Representation

```

<...
measurementOrCalculatedTimePrecision="D2LogicalModel:TimePrecisionEnum [0..1] ?">
  <D2LogicalModel:measurementOrCalculationPeriod> D2LogicalModel:Seconds
</D2LogicalModel:measurementOrCalculationPeriod> [0..1] ?
  <D2LogicalModel:measurementOrCalculationTime> D2LogicalModel:DateTime
</D2LogicalModel:measurementOrCalculationTime> [0..1] ?
  <D2LogicalModel:pertinentLocation> D2LogicalModel:GroupOfLocations </D2LogicalModel:pertinentLocation> [0..1] ?
  <D2LogicalModel:basicDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:basicDataExtension> [0..1]
  <D2LogicalModel:trafficDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:trafficDataExtension> [0..1]
  <D2LogicalModel:axleFlow> D2LogicalModel:AxleFlowValue </D2LogicalModel:axleFlow> [0..1] ?
  <D2LogicalModel:pcuFlow> D2LogicalModel:PcuFlowValue </D2LogicalModel:pcuFlow> [0..1] ?
  <D2LogicalModel:percentageLongVehicles> D2LogicalModel:PercentageValue </D2LogicalModel:percentageLongVehicles>
  [0..1] ?
  <D2LogicalModel:vehicleFlow> D2LogicalModel:VehicleFlowValue </D2LogicalModel:vehicleFlow> [0..1] ?
  <D2LogicalModel:trafficFlowExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:trafficFlowExtension> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="TrafficFlow">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TrafficData">
      <xs:sequence>
        <xs:element name="axleFlow" type="D2LogicalModel:AxleFlowValue" minOccurs="0"/>
        <xs:element name="pcuFlow" type="D2LogicalModel:PcuFlowValue" minOccurs="0"/>
        <xs:element name="percentageLongVehicles" type="D2LogicalModel:PercentageValue" minOccurs="0"/>
        <xs:element name="vehicleFlow" type="D2LogicalModel:VehicleFlowValue" minOccurs="0"/>
        <xs:element name="trafficFlowExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

Complex Type: **TrafficHeadway**

Super-types: [BasicData](#) < [TrafficData](#) (by extension) < **TrafficHeadway** (by extension)
 Sub-types: None

Name TrafficHeadway
Abstract no
Documentation Averaged measurements or calculations of traffic headway, i.e. the distance or time interval between vehicles. This measure is measured from the head of one vehicle to the head of the following vehicle.

XML Instance Representation

```
<...
  measurementOrCalculatedTimePrecision="D2LogicalModel:TimePrecisionEnum [0..1] ?">
    <D2LogicalModel:measurementOrCalculationPeriod> D2LogicalModel:Seconds
  </D2LogicalModel:measurementOrCalculationPeriod> [0..1] ?
  <D2LogicalModel:measurementOrCalculationTime> D2LogicalModel:DateTime
  </D2LogicalModel:measurementOrCalculationTime> [0..1] ?
  <D2LogicalModel:pertinentLocation> D2LogicalModel:GroupOfLocations </D2LogicalModel:pertinentLocation> [0..1] ?
  <D2LogicalModel:basicDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:basicDataExtension> [0..1]
  <D2LogicalModel:trafficDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:trafficDataExtension> [0..1]
  <D2LogicalModel:averageDistanceHeadway> D2LogicalModel:FloatingPointMetreDistanceValue
  </D2LogicalModel:averageDistanceHeadway> [0..1] ?
  <D2LogicalModel:averageTimeHeadway> D2LogicalModel:DurationValue </D2LogicalModel:averageTimeHeadway> [0..1] ?
  <D2LogicalModel:trafficHeadwayExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:trafficHeadwayExtension>
  [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficHeadway">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TrafficData">
      <xs:sequence>
        <xs:element name="averageDistanceHeadway" type="D2LogicalModel:FloatingPointMetreDistanceValue"
          minOccurs="0"/>
        <xs:element name="averageTimeHeadway" type="D2LogicalModel:DurationValue" minOccurs="0"/>
        <xs:element name="trafficHeadwayExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Complex Type: **TrafficSpeed**

Super-types: [BasicData](#) < [TrafficData](#) (by extension) < **TrafficSpeed** (by extension)
 Sub-types: None

Name TrafficSpeed
Abstract no
Documentation Averaged measurements or calculations of traffic speed.

XML Instance Representation

```
<...
  measurementOrCalculatedTimePrecision="D2LogicalModel:TimePrecisionEnum [0..1] ?">
    <D2LogicalModel:measurementOrCalculationPeriod> D2LogicalModel:Seconds
  </D2LogicalModel:measurementOrCalculationPeriod> [0..1] ?
  <D2LogicalModel:measurementOrCalculationTime> D2LogicalModel:DateTime
  </D2LogicalModel:measurementOrCalculationTime> [0..1] ?
  <D2LogicalModel:pertinentLocation> D2LogicalModel:GroupOfLocations </D2LogicalModel:pertinentLocation> [0..1] ?
  <D2LogicalModel:basicDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:basicDataExtension> [0..1]
  <D2LogicalModel:trafficDataExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:trafficDataExtension> [0..1]
  <D2LogicalModel:averageVehicleSpeed> D2LogicalModel:SpeedValue </D2LogicalModel:averageVehicleSpeed> [0..1] ?
  <D2LogicalModel:speedPercentile> D2LogicalModel:SpeedPercentile </D2LogicalModel:speedPercentile> [0..1]
  <D2LogicalModel:trafficSpeedExtension> D2LogicalModel:_ExtensionType </D2LogicalModel:trafficSpeedExtension>
  [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TrafficSpeed">
  <xs:complexContent>
    <xs:extension base="D2LogicalModel:TrafficData">
      <xs:sequence>
        <xs:element name="averageVehicleSpeed" type="D2LogicalModel:SpeedValue" minOccurs="0"/>
        <xs:element name="speedPercentile" type="D2LogicalModel:SpeedPercentile" minOccurs="0"/>
        <xs:element name="trafficSpeedExtension" type="D2LogicalModel:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Complex Type: **TrafficStatusValue**

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

Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: VehicleCountValue

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

Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: VehicleFlowValue

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

Sub-types: None

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

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: ExtensionType

Super-types:	None
Sub-types:	None

Name ExtensionType
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Complex Type: PointExtensionType

Super-types:	None
Sub-types:	None

Name PointExtensionType
Abstract no

XML Instance Representation

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

Schema Component Representation

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

[top](#)

Simple Type: AlertCDirectionEnum

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

Name AlertCDirectionEnum

Content

- Base XSD Type: string

- *value* comes from list: {'both'|'negative'|'positive'|'unknown'}

Documentation

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

Schema Component Representation

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

[top](#)

Simple Type: AlertCLocationCode

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

Sub-types: None

Name AlertCLocationCode

Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

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

[top](#)

Simple Type: AngleInDegrees

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

Sub-types: None

Name AngleInDegrees

Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

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

[top](#)

Simple Type: AreaOfInterestEnum

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

Sub-types: None

Name AreaOfInterestEnum

Content

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

Documentation Types of areas of interest.

Schema Component Representation

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

[top](#)

Simple Type: AxlesPerHour

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

Sub-types: None

Name AxlesPerHour

Content

- Base XSD Type: nonNegativeInteger

Schema Component Representation

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

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

Super-types: [xs:boolean](#) < **Boolean** (by restriction)

Sub-types: None

Name Boolean**Content**

- Base XSD Type: boolean

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

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

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

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

Sub-types: None

Name CarriagewayEnum**Content**

- Base XSD Type: string
- value* comes from list:
 - {connectingCarriageway|entrySlipRoad|exitSlipRoad|flyover|leftHandFeederRoad|leftHandParallelCarriageway|mainCarriageway|oppositeCarriageway|parallelCarriageway|rightHandFeederRoad|rightHandParallelCarriageway|roundabout|serviceRoad|slipRoads|underpass}

Documentation List of descriptors identifying specific carriageway details.**Schema Component Representation**

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

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

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

Sub-types: None

Name ComputationMethodEnum**Content**

- Base XSD Type: string
- value* comes from list:
 - {arithmeticAverageOfSamplesBasedOnAFixedNumberOfSamples|arithmeticAverageOfSamplesInATimePeriod|harmonicAverageOfSamplesInATimePeriod|medianOfSamplesInATimePeriod|movingAverageOfSamples}

Documentation Types of computational methods used in deriving data values for data sets.**Schema Component Representation**

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

Simple Type: **ConcentrationKilogramsPerCubicMetre**

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

Name ConcentrationKilogramsPerCubicMetre

Content

- Base XSD Type: float

Documentation Concentration defined in kilograms per cubic metre (equivalent to grams per litre under standard conditions).

Schema Component Representation

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

Simple Type: **ConcentrationMicrogramsPerCubicMetre**

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

Name ConcentrationMicrogramsPerCubicMetre

Content

- Base XSD Type: float

Documentation A measure of concentration defined in µg/m3 (micrograms/cubic metre).

Schema Component Representation

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

Simple Type: **ConcentrationVehiclesPerKilometre**

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

Name ConcentrationVehiclesPerKilometre

Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

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

Simple Type: **ConfidentialityValueEnum**

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

Name ConfidentialityValueEnum

Content

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

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>
```

Simple Type: **CountryEnum**

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

Sub-types: None

Name CountryEnum

Content

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

Documentation List of countries.

Schema Component Representation

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

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

Sub-types: None

Name DirectionCompassEnum

Content

- Base XSD Type: string

- *value* comes from list:
{'east'|'eastNorthEast'|'eastSouthEast'|'north'|'northEast'|'northNorthEast'|'northNorthWest'|'northWest'|'south'|'southEast'|'southSouthEast'|'southSouthWest'|'southWest'|'west'|'westNorthWest'|'westSouthWest'}

Documentation Cardinal direction points of the compass.

Schema Component Representation

```
<xs:simpleType name="DirectionCompassEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="east"/>
    <xs:enumeration value="eastNorthEast"/>
    <xs:enumeration value="eastSouthEast"/>
    <xs:enumeration value="north"/>
    <xs:enumeration value="northEast"/>
    <xs:enumeration value="northNorthEast"/>
    <xs:enumeration value="northNorthWest"/>
    <xs:enumeration value="northWest"/>
    <xs:enumeration value="south"/>
    <xs:enumeration value="southEast"/>
    <xs:enumeration value="southSouthEast"/>
    <xs:enumeration value="southSouthWest"/>
    <xs:enumeration value="southWest"/>
    <xs:enumeration value="west"/>
    <xs:enumeration value="westNorthWest"/>
    <xs:enumeration value="westSouthWest"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **ElaboratedDataFaultEnum**

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

Name ElaboratedDataFaultEnum

Content

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

Documentation Types of elaborated data faults.

Schema Component Representation

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

[top](#)

Simple Type: **FaultSeverityEnum**

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

Name FaultSeverityEnum

Content

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

Documentation Classification of the severity of faults.

Schema Component Representation

```
<xs:simpleType name="FaultSeverityEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="low"/>
    <xs:enumeration value="medium"/>
    <xs:enumeration value="high"/>
    <xs:enumeration value="unknown"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **Float**

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

- [ConcentrationKilogramsPerCubicMetre](#) (by restriction)
- [ConcentrationMicrogramsPerCubicMetre](#) (by restriction)
- [IntensityKilogramsPerSquareMetre](#) (by restriction)
- [IntensityMillimetresPerHour](#) (by restriction)
- [KilometresPerHour](#) (by restriction)
- [MetresAsFloat](#) (by restriction)
- [Percentage](#) (by restriction)
- [Seconds](#) (by restriction)

- [TemperatureCelsius](#) (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: InformationStatusEnum

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

Sub-types: None

Name InformationStatusEnum

Content

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

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

Schema Component Representation

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

[top](#)

Simple Type: Integer

Super-types: [xs:integer](#) < **Integer** (by restriction)

Sub-types: None

Name Integer

Content

- Base XSD Type: integer

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

Schema Component Representation

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

[top](#)

Simple Type: IntensityKilogramsPerSquareMetre

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

Sub-types: None

Name IntensityKilogramsPerSquareMetre

Content

- Base XSD Type: float

Documentation A measure of the quantity of application of a substance to an area defined in kilograms per square metre.

Schema Component Representation

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

[top](#)

Simple Type: IntensityMillimetresPerHour

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

Sub-types: None

Name IntensityMillimetresPerHour

Content

- Base XSD Type: float

Schema Component Representation

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

[top](#)

Simple Type: KilometresPerHour

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

Sub-types: None

Name KilometresPerHour

Content

- Base XSD Type: float

Documentation A measure of speed defined in kilometres per hour.

Schema Component Representation

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

[top](#)

Simple Type: LaneEnum

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

Sub-types: None

Name LaneEnum

Content

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

Documentation List of descriptors identifying specific lanes.

Schema Component Representation

```
<xs:simpleType name="LaneEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="allLanesCompleteCarriageway"/>
    <xs:enumeration value="busLane"/>
    <xs:enumeration value="busStop"/>
    <xs:enumeration value="carPoolLane"/>
    <xs:enumeration value="centralReservation"/>
    <xs:enumeration value="crawlerLane"/>
    <xs:enumeration value="emergencyLane"/>
    <xs:enumeration value="escapeLane"/>
    <xs:enumeration value="expressLane"/>
    <xs:enumeration value="hardShoulder"/>
    <xs:enumeration value="heavyVehicleLane"/>
    <xs:enumeration value="lane1"/>
    <xs:enumeration value="lane2"/>
    <xs:enumeration value="lane3"/>
    <xs:enumeration value="lane4"/>
    <xs:enumeration value="lane5"/>
    <xs:enumeration value="lane6"/>
    <xs:enumeration value="lane7"/>
    <xs:enumeration value="lane8"/>
    <xs:enumeration value="lane9"/>
    <xs:enumeration value="layBy"/>
    <xs:enumeration value="leftHandTurningLane"/>
    <xs:enumeration value="leftLane"/>
    <xs:enumeration value="localTrafficLane"/>
    <xs:enumeration value="middleLane"/>
    <xs:enumeration value="opposingLanes"/>
    <xs:enumeration value="overtakingLane"/>
    <xs:enumeration value="rightHandTurningLane"/>
    <xs:enumeration value="rightLane"/>
    <xs:enumeration value="rushHourLane"/>
    <xs:enumeration value="setDownArea"/>
    <xs:enumeration value="slowVehicleLane"/>
    <xs:enumeration value="throughTrafficLane"/>
    <xs:enumeration value="tidalFlowLane"/>
    <xs:enumeration value="turningLane"/>
    <xs:enumeration value="verge"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: Language

Super-types: [xs:language](#) < **Language** (by restriction)

Sub-types: None

Name Language

Content

- Base XSD Type: language

Documentation

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

Schema Component Representation

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

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

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

Sub-types: None

Name LinearReferencingDirectionEnum

Content

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

Documentation

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

Schema Component Representation

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

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

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

Sub-types: None

Name LocationDescriptorEnum

Content

- Base XSD Type: string
- *value* comes from list: {'aroundABendInRoad'|'atMotorwayInterchange'|'atRestArea'|'atServiceArea'|'atTollPlaza'|'atTunnelEntryOrExit'|'inbound'|'inGallery'|'inTheCentre'|'inTunnel'|'onBorder'|'onBridge'|'onConnector'|'onElevatedSection'|'onFlyover'|'onIceRoad'|'onLevelCrossing'|'onLinkRoad'|'onPass'|'onRoundabout'|'onTheLeft'|'onTheRight'|'onTheRoadway'|'onUndergroundSection'|'onUnderpass'|'outbound'|'overCrestOfHill'|'withinJunction'}

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

Schema Component Representation

```
<xs:simpleType name="LocationDescriptorEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="aroundABendInRoad"/>
    <xs:enumeration value="atMotorwayInterchange"/>
    <xs:enumeration value="atRestArea"/>
    <xs:enumeration value="atServiceArea"/>
    <xs:enumeration value="atTollPlaza"/>
    <xs:enumeration value="atTunnelEntryOrExit"/>
    <xs:enumeration value="inbound"/>
    <xs:enumeration value="inGallery"/>
    <xs:enumeration value="inTheCentre"/>
    <xs:enumeration value="inTheOppositeDirection"/>
    <xs:enumeration value="inTunnel"/>
    <xs:enumeration value="onBorder"/>
    <xs:enumeration value="onBridge"/>
    <xs:enumeration value="onConnector"/>
    <xs:enumeration value="onElevatedSection"/>
    <xs:enumeration value="onFlyover"/>
    <xs:enumeration value="onIceRoad"/>
    <xs:enumeration value="onLevelCrossing"/>
    <xs:enumeration value="onLinkRoad"/>
    <xs:enumeration value="onPass"/>
    <xs:enumeration value="onRoundabout"/>
    <xs:enumeration value="onTheLeft"/>
    <xs:enumeration value="onTheRight"/>
    <xs:enumeration value="onTheRoadway"/>
    <xs:enumeration value="onUndergroundSection"/>
    <xs:enumeration value="onUnderpass"/>
    <xs:enumeration value="outbound"/>
    <xs:enumeration value="overCrestOfHill"/>
    <xs:enumeration value="withinJunction"/>
  </xs:restriction>
</xs:simpleType>
```

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

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

Sub-types: None

Name MetresAsFloat
Content

- Base XSD Type: float

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

Schema Component Representation

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

[top](#)

Simple Type: MetresAsNonNegativeInteger

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

Name MetresAsNonNegativeInteger
Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

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

[top](#)

Simple Type: 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)
- [AngleInDegrees](#) (by restriction)
- [AxlesPerHour](#) (by restriction)
- [ConcentrationVehiclesPerKilometre](#) (by restriction)
- [MetresAsNonNegativeInteger](#) (by restriction)
- [PassengerCarUnitsPerHour](#) (by restriction)
- [VehiclesPerHour](#) (by restriction)

Name NonNegativeInteger
Content

- Base XSD Type: nonNegativeInteger

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

Schema Component Representation

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

[top](#)

Simple Type: OpenIrFormOfWayEnum

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

Name OpenIrFormOfWayEnum
Content

- Base XSD Type: string

- *value* comes from list: {undefined|"motorway"|"multipleCarriageway"|"singleCarriageway"|"roundabout"|"slipRoad"|"trafficSquare"|"other"}

Documentation

Enumeration of for of way

Schema Component Representation

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

[top](#)

Simple Type: **OpenlrFunctionalRoadClassEnum**

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

Name OpenlrFunctionalRoadClassEnum

Content

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

Documentation Enumeration of functional road class

Schema Component Representation

```
<xs:simpleType name="OpenlrFunctionalRoadClassEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="FRC0"/>
    <xs:enumeration value="FRC1"/>
    <xs:enumeration value="FRC2"/>
    <xs:enumeration value="FRC3"/>
    <xs:enumeration value="FRC4"/>
    <xs:enumeration value="FRC5"/>
    <xs:enumeration value="FRC6"/>
    <xs:enumeration value="FRC7"/>
  </xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: **OpenlrOrientationEnum**

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

Name OpenlrOrientationEnum

Content

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

Documentation Enumeration of side of road

Schema Component Representation

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

[top](#)

Simple Type: **OpenlrSideOfRoadEnum**

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

Name OpenlrSideOfRoadEnum

Content

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

Documentation Enumeration of side of road

Schema Component Representation

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

```
<xs:enumeration value="right"/>
<xs:enumeration value="left"/>
<xs:enumeration value="both"/>
</xs:restriction>
</xs:simpleType>
```

[top](#)

Simple Type: PassengerCarUnitsPerHour

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

Name PassengerCarUnitsPerHour
Content

- Base XSD Type: nonNegativeInteger

Documentation Passenger car units per hour.

Schema Component Representation

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

[top](#)

Simple Type: Percentage

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

Name Percentage
Content

- Base XSD Type: float

Documentation A measure of percentage.

Schema Component Representation

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

[top](#)

Simple Type: Seconds

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

Name Seconds
Content

- Base XSD Type: float

Documentation Seconds.

Schema Component Representation

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

[top](#)

Simple Type: SourceTypeEnum

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

Name SourceTypeEnum
Content

- Base XSD Type: string
- *value* comes from list:
{*automobileClubPatrol* | *cameraObservation* | *freightVehicleOperator* | *inductionLoopMonitoringStation* | *infraredMonitoringStation* | *microwaveMonitoringStation* | *mobileTelephoneCaller* | *nonPoliceEmergencyServicePatrol* | *otherInformation*}

Documentation Type of sources from which situation information may be derived.

Schema Component Representation

```
<xs:simpleType name="SourceTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="automobileClubPatrol"/>
    <xs:enumeration value="cameraObservation"/>
    <xs:enumeration value="freightVehicleOperator"/>
    <xs:enumeration value="inductionLoopMonitoringStation"/>
    <xs:enumeration value="infraredMonitoringStation"/>
    <xs:enumeration value="microwaveMonitoringStation"/>
    <xs:enumeration value="mobileTelephoneCaller"/>
    <xs:enumeration value="nonPoliceEmergencyServicePatrol"/>
    <xs:enumeration value="otherInformation"/>
  </xs:restriction>
</xs:simpleType>
```

```

<xs:enumeration value="otherOfficialVehicle"/>
<xs:enumeration value="policePatrol"/>
<xs:enumeration value="privateBreakdownService"/>
<xs:enumeration value="publicAndPrivateUtilities"/>
<xs:enumeration value="registeredMotoristObserver"/>
<xs:enumeration value="roadAuthorities"/>
<xs:enumeration value="roadOperatorPatrol"/>
<xs:enumeration value="roadsideTelephoneCaller"/>
<xs:enumeration value="spotterAircraft"/>
<xs:enumeration value="trafficMonitoringStation"/>
<xs:enumeration value="transitOperator"/>
<xs:enumeration value="vehicleProbeMeasurement"/>
<xs:enumeration value="videoProcessingMonitoringStation"/>
</xs:restriction>
</xs:simpleType>

```

[top](#)

Simple Type: String

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

Name String
Content

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

Documentation A character string whose value space is the set of finite-length sequences of characters. Every character has a corresponding Universal Character Set code point (as defined in ISO/IEC 10646), which is an integer.

Schema Component Representation

```

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

```

[top](#)

Simple Type: TemperatureCelsius

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

Name TemperatureCelsius
Content

- Base XSD Type: float

Documentation A measure of temperature defined in degrees Celsius.

Schema Component Representation

```

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

```

[top](#)

Simple Type: TimePrecisionEnum

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

Name TimePrecisionEnum
Content

- Base XSD Type: string
- value* comes from list: {'tenthsOfSecond'|'second'|'minute'|'quarterHour'|'halfHour'|'hour'}

Documentation List of precisions to which times can be given.

Schema Component Representation

```

<xs:simpleType name="TimePrecisionEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="tenthsOfSecond"/>
    <xs:enumeration value="second"/>
    <xs:enumeration value="minute"/>
    <xs:enumeration value="quarterHour"/>
    <xs:enumeration value="halfHour"/>
    <xs:enumeration value="hour"/>
  </xs:restriction>
</xs:simpleType>

```

[top](#)

Simple Type: TpegLoc03AreaDescriptorSubtypeEnum

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

Sub-types: None

Name TpegLoc03AreaDescriptorSubtypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {administrativeAreaName|administrativeReferenceName|areaName|countyName|lakeName|nationName|policeForceControlAreaName|region

Documentation Descriptors for describing area locations.

Schema Component Representation

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

[top](#)

Simple Type: TrafficStatusEnum

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

Sub-types: None

Name TrafficStatusEnum

Content

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

Documentation List of terms used to describe traffic conditions.

Schema Component Representation

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

[top](#)

Simple Type: UrgencyEnum

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

Sub-types: None

Name UrgencyEnum

Content

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

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

Schema Component Representation

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

[top](#)

Simple Type: VehiclesPerHour

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

Sub-types: None

Name VehiclesPerHour

Content

- Base XSD Type: nonNegativeInteger

Documentation Vehicles per hour.

Schema Component Representation

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