EV Actual Status - common

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Schema Document Properties

Target Namespace	**http://levelC/schema/3/common**
Version	3.0
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
com	**http://levelC/schema/3/common**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified" version="3.0"
targetNamespace="http://levelC/schema/3/common">
   ...
</xs:schema>
```

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Global Definitions

Complex Type: ApplicationRateValue

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

Name ApplicationRateValue

Abstract no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:applicationRate> com:IntensityKilogramsPerSquareMetre </com:applicationRate> [1]
   <com:_applicationRateValueExtension> com:_ExtensionType </com:_applicationRateValueExtension> [0..1]
</...>
```

Schema Component Representation

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

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Complex Type: AxleSpacing

Super-types:	None
Sub-types:	None

Name AxleSpacing

Abstract no

XML Instance Representation

```
<...>
   <com:axleSpacing> com:MetresAsFloat </com:axleSpacing> [1]
   <com:axleSpacingSequenceIdentifier> com:NonNegativeInteger </com:axleSpacingSequenceIdentifier> [1]
   <com:_axleSpacingExtension> com:_ExtensionType </com:_axleSpacingExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AxleSpacing">
   <xs:sequence>
      <xs:element name="axleSpacing" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
      <xs:element name="axleSpacingSequenceIdentifier" type="com:NonNegativeInteger" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_axleSpacingExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: AxleWeight

Super-types:	None
Sub-types:	None

Name AxleWeight

Abstract no

XML Instance Representation

```
<...>
   <com:axlePositionIdentifier> com:NonNegativeInteger </com:axlePositionIdentifier> [1]
   <com:axleWeight> com:Tonnes </com:axleWeight> [0..1]
   <com:maximumPermittedAxleWeight> com:Tonnes </com:maximumPermittedAxleWeight> [0..1]
```

```
   <com:_axleWeightExtension> com:_ExtensionType </com:_axleWeightExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="AxleWeight">
   <xs:sequence>
      <xs:element name="axlePositionIdentifier" type="com:NonNegativeInteger" minOccurs="1" maxOccurs="1"/>
      <xs:element name="axleWeight" type="com:Tonnes" minOccurs="0" maxOccurs="1"/>
      <xs:element name="maximumPermittedAxleWeight" type="com:Tonnes" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_axleWeightExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: DataValue

Super-types:	None
Sub-types:	• ApplicationRateValue (by extension) • DirectionBearingValue (by extension) • DirectionCompassValue (by extension) • FloatingPointMetreDistanceValue (by extension) • FrictionValue (by extension) • IntegerMetreDistanceValue (by extension) • KilogramsConcentrationValue (by extension) • MicrogramsConcentrationValue (by extension) • PercentageValue (by extension) • PrecipitationIntensityValue (by extension) • PressureValue (by extension) • SpeedValue (by extension) • TemperatureValue (by extension) • VehicleFlowValue (by extension) • WindSpeedValue (by extension)

Name	DataValue
Abstract	yes

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
</...>
```

Schema Component Representation

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

top

Complex Type: DirectionBearingValue

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

Name	DirectionBearingValue
Abstract	no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:directionBearing> com:AngleInDegrees </com:directionBearing> [1]
   <com:_directionBearingValueExtension> com:_ExtensionType </com:_directionBearingValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="DirectionBearingValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="directionBearing" type="com:AngleInDegrees" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_directionBearingValueExtension" type="com:_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

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
  <com:dataError> com:Boolean </com:dataError> [0..1]
  <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
  <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
  <com:directionCompass> com:_DirectionCompassEnum </com:directionCompass> [1]
  <com:_directionCompassValueExtension> com:_ExtensionType </com:_directionCompassValueExtension> [0..1]
</...>
```

Schema Component Representation

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

top

Complex Type: FloatingPointMetreDistanceValue

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

Name	FloatingPointMetreDistanceValue
Abstract	no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
  <com:dataError> com:Boolean </com:dataError> [0..1]
  <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
  <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
  <com:distance> com:MetresAsFloat </com:distance> [1]
  <com:_floatingPointMetreDistanceValueExtension> com:_ExtensionType
  </com:_floatingPointMetreDistanceValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="FloatingPointMetreDistanceValue">
  <xs:complexContent>
    <xs:extension base="com:DataValue">
      <xs:sequence>
        <xs:element name="distance" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_floatingPointMetreDistanceValueExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: FrictionValue

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

Name	FrictionValue
Abstract	no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:friction> com:Float </com:friction> [1]
   <com:_frictionValueExtension> com:_ExtensionType </com:_frictionValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="FrictionValue">
   <xs:complexContent>
      <xs:extension base="com:DataValue">
         <xs:sequence>
            <xs:element name="friction" type="com:Float" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_frictionValueExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: HazardousMaterials

Super-types:	None
Sub-types:	None

Name	HazardousMaterials
Abstract	no

XML Instance Representation

```
<...>
   <com:chemicalName> com:MultilingualString </com:chemicalName> [1]
   <com:dangerousGoodsFlashPoint> com:TemperatureCelsius </com:dangerousGoodsFlashPoint> [0..1]
   <com:dangerousGoodsRegulations> com:_DangerousGoodsRegulationsEnum </com:dangerousGoodsRegulations> [0..1]
   <com:hazardCodeIdentification> com:String </com:hazardCodeIdentification> [0..1]
   <com:hazardCodeVersionNumber> com:NonNegativeInteger </com:hazardCodeVersionNumber> [0..1]
   <com:hazardSubstanceItemPageNumber> com:String </com:hazardSubstanceItemPageNumber> [0..1]
   <com:tremCardNumber> com:String </com:tremCardNumber> [0..1]
   <com:undgNumber> com:String </com:undgNumber> [0..1]
   <com:volumeOfDangerousGoods> com:CubicMetres </com:volumeOfDangerousGoods> [0..1]
   <com:weightOfDangerousGoods> com:Tonnes </com:weightOfDangerousGoods> [0..1]
   <com:_hazardousMaterialsExtension> com:_ExtensionType </com:_hazardousMaterialsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="HazardousMaterials">
   <xs:sequence>
      <xs:element name="chemicalName" type="com:MultilingualString" minOccurs="1" maxOccurs="1"/>
      <xs:element name="dangerousGoodsFlashPoint" type="com:TemperatureCelsius" minOccurs="0" maxOccurs="1"/>
      <xs:element name="dangerousGoodsRegulations" type="com:_DangerousGoodsRegulationsEnum" minOccurs="0"
      maxOccurs="1"/>
      <xs:element name="hazardCodeIdentification" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="hazardCodeVersionNumber" type="com:NonNegativeInteger" minOccurs="0" maxOccurs="1"/>
      <xs:element name="hazardSubstanceItemPageNumber" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="tremCardNumber" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="undgNumber" type="com:String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="volumeOfDangerousGoods" type="com:CubicMetres" minOccurs="0" maxOccurs="1"/>
      <xs:element name="weightOfDangerousGoods" type="com:Tonnes" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_hazardousMaterialsExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: IntegerMetreDistanceValue

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

Name	IntegerMetreDistanceValue
Abstract	no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:integerMetreDistance> com:MetresAsNonNegativeInteger </com:integerMetreDistance> [1]
   <com:_integerMetreDistanceValueExtension> com:_ExtensionType </com:_integerMetreDistanceValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="IntegerMetreDistanceValue">
   <xs:complexContent>
      <xs:extension base="com:DataValue">
         <xs:sequence>
            <xs:element name="integerMetreDistance" type="com:MetresAsNonNegativeInteger" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_integerMetreDistanceValueExtension" type="com:_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

XML Instance Representation

```
<...>
   <com:country> com:CountryCode </com:country> [1]
   <com:nationalIdentifier> com:String </com:nationalIdentifier> [1]
   <com:_internationalIdentifierExtension> com:_ExtensionType </com:_internationalIdentifierExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="InternationalIdentifier">
   <xs:sequence>
      <xs:element name="country" type="com:CountryCode" minOccurs="1" maxOccurs="1"/>
      <xs:element name="nationalIdentifier" type="com:String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="_internationalIdentifierExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: KilogramsConcentrationValue

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

Name	KilogramsConcentrationValue
Abstract	no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:kilogramsConcentration> com:ConcentrationKilogramsPerCubicMetre </com:kilogramsConcentration> [1]
   <com:_kilogramsConcentrationValueExtension> com:_ExtensionType </com:_kilogramsConcentrationValueExtension> [0..1]
</...>
```

Schema Component Representation

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

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:microgramsConcentration> com:ConcentrationMicrogramsPerCubicMetre </com:microgramsConcentration> [1]
   <com:_microgramsConcentrationValueExtension> com:_ExtensionType </com:_microgramsConcentrationValueExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="MicrogramsConcentrationValue">
   <xs:complexContent>
      <xs:extension base="com:DataValue">
         <xs:sequence>
            <xs:element name="microgramsConcentration" type="com:ConcentrationMicrogramsPerCubicMetre" minOccurs="1"
            maxOccurs="1"/>
            <xs:element name="_microgramsConcentrationValueExtension" type="com:_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

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

Schema Component Representation

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

top

Complex Type: MultilingualStringValue

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

Name MultilingualStringValue

Abstract no

XML Instance Representation

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

Schema Component Representation

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

top

Complex Type: OverallPeriod

Super-types:	None
Sub-types:	None

Name OverallPeriod

Abstract no

XML Instance Representation

```
<...>
  <com:overallStartTime> com:DateTime </com:overallStartTime> [1]
  <com:overallEndTime> com:DateTime </com:overallEndTime> [0..1]
  <com:_overallPeriodExtension> com:_ExtensionType </com:_overallPeriodExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="OverallPeriod">
  <xs:sequence>
    <xs:element name="overallStartTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="overallEndTime" type="com:DateTime" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_overallPeriodExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: PayloadPublication

Super-types:	None
Sub-types:	None

Name PayloadPublication

Abstract yes

XML Instance Representation

```
<...
 lang="com:Language [1]"
 modelBaseVersion="3 [1]"
 extensionName="xs:string [0..1]"
 extensionVersion="xs:string [0..1]"
 profileName="xs:string [0..1]"
 profileVersion="xs:string [0..1]">
  <com:publicationTime> com:DateTime </com:publicationTime> [1]
  <com:publicationCreator> com:InternationalIdentifier </com:publicationCreator> [1]
  <com:_payloadPublicationExtension> com:_ExtensionType </com:_payloadPublicationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PayloadPublication" abstract="true">
  <xs:sequence>
    <xs:element name="publicationTime" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
    <xs:element name="publicationCreator" type="com:InternationalIdentifier"/>
    <xs:element name="_payloadPublicationExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="lang" type="com:Language" use="required"/>
  <xs:attribute name="modelBaseVersion" type="xs:string" use="required" fixed="3"/>
  <xs:attribute name="extensionName" type="xs:string" use="optional"/>
  <xs:attribute name="extensionVersion" type="xs:string" use="optional"/>
  <xs:attribute name="profileName" type="xs:string" use="optional"/>
  <xs:attribute name="profileVersion" type="xs:string" use="optional"/>
</xs:complexType>
```

top

Complex Type: PercentageValue

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

Name PercentageValue

Abstract no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
```

```
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:percentage> com:Percentage </com:percentage> [1]
   <com:_percentageValueExtension> com:_ExtensionType </com:_percentageValueExtension> [0..1]
</...>
```

Schema Component Representation

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

top

Complex Type: PrecipitationIntensityValue

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

Name	PrecipitationIntensityValue
Abstract	no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:millimetresPerHourIntensity> com:IntensityMillimetresPerHour </com:millimetresPerHourIntensity> [1]
   <com:_precipitationIntensityValueExtension> com:_ExtensionType </com:_precipitationIntensityValueExtension> [0..1]
</...>
```

Schema Component Representation

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

top

Complex Type: PressureValue

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

Name	PressureValue
Abstract	no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:pressure> com:Hectopascal </com:pressure> [1]
   <com:_pressureValueExtension> com:_ExtensionType </com:_pressureValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="PressureValue">
   <xs:complexContent>
      <xs:extension base="com:DataValue">
```

```
      <xs:sequence>
        <xs:element name="pressure" type="com:Hectopascal" minOccurs="1" maxOccurs="1"/>
        <xs:element name="_pressureValueExtension" type="com:_ExtensionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

top

Complex Type: Reference

Super-types:	None
Sub-types:	None

Name Reference

Abstract no

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="Reference">
  <xs:attribute name="id" type="xs:string" use="required"/>
</xs:complexType>
```

top

Complex Type: SpeedValue

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

Name SpeedValue

Abstract no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
  <com:dataError> com:Boolean </com:dataError> [0..1]
  <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
  <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
  <com:speed> com:KilometresPerHour </com:speed> [1]
  <com:_speedValueExtension> com:_ExtensionType </com:_speedValueExtension> [0..1]
</...>
```

Schema Component Representation

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

top

Complex Type: TemperatureBelowOrAboveRoadSurface

Super-types:	None
Sub-types:	None

Name TemperatureBelowOrAboveRoadSurface

Abstract no

XML Instance Representation

```
<...>
  <com:heightBelowOrAboveRoadSurface> com:MetresAsFloat </com:heightBelowOrAboveRoadSurface> [1]
  <com:temperatureBelowOrAboveRoadSurface> com:TemperatureValue </com:temperatureBelowOrAboveRoadSurface> [1]
  <com:_temperatureBelowOrAboveRoadSurfaceExtension> com:_ExtensionType
  </com:_temperatureBelowOrAboveRoadSurfaceExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="TemperatureBelowOrAboveRoadSurface">
  <xs:sequence>
    <xs:element name="heightBelowOrAboveRoadSurface" type="com:MetresAsFloat" minOccurs="1" maxOccurs="1"/>
```

```
    <xs:element name="temperatureBelowOrAboveRoadSurface" type="com:TemperatureValue"/>
    <xs:element name="_temperatureBelowOrAboveRoadSurfaceExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: TemperatureValue

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

Name	TemperatureValue
Abstract	no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
  <com:dataError> com:Boolean </com:dataError> [0..1]
  <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
  <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
  <com:temperature> com:TemperatureCelsius </com:temperature> [1]
  <com:_temperatureValueExtension> com:_ExtensionType </com:_temperatureValueExtension> [0..1]
</...>
```

Schema Component Representation

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

top

Complex Type: VehicleCharacteristics

Super-types:	None
Sub-types:	None

Name	VehicleCharacteristics
Abstract	no

XML Instance Representation

```
<...>
  <com:fuelType> com:_FuelTypeEnum </com:fuelType> [0..*]
  <com:loadType> com:_LoadTypeEnum </com:loadType> [0..1]
  <com:vehicleEquipment> com:_VehicleEquipmentEnum </com:vehicleEquipment> [0..1]
  <com:vehicleType> com:_VehicleTypeEnum </com:vehicleType> [0..*]
  <com:vehicleUsage> com:_VehicleUsageEnum </com:vehicleUsage> [0..1]
  <com:yearOfFirstRegistration> com:Year </com:yearOfFirstRegistration> [0..1]
  <com:_vehicleCharacteristicsExtension> com:_ExtensionType </com:_vehicleCharacteristicsExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="VehicleCharacteristics">
  <xs:sequence>
    <xs:element name="fuelType" type="com:_FuelTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="loadType" type="com:_LoadTypeEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="vehicleEquipment" type="com:_VehicleEquipmentEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="vehicleType" type="com:_VehicleTypeEnum" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="vehicleUsage" type="com:_VehicleUsageEnum" minOccurs="0" maxOccurs="1"/>
    <xs:element name="yearOfFirstRegistration" type="com:Year" minOccurs="0" maxOccurs="1"/>
    <xs:element name="_vehicleCharacteristicsExtension" type="com:_ExtensionType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

top

Complex Type: VehicleFlowValue

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

Name	VehicleFlowValue
Abstract	no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:vehicleFlowRate> com:VehiclesPerHour </com:vehicleFlowRate> [1]
   <com:_vehicleFlowValueExtension> com:_ExtensionType </com:_vehicleFlowValueExtension> [0..1]
</...>
```

Schema Component Representation

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

top

Complex Type: VersionedReference

Super-types:	None
Sub-types:	None

Name	VersionedReference
Abstract	no

XML Instance Representation

```
<...
 id="xs:string [1]"
 version="xs:string [0..1]"/>
```

Schema Component Representation

```
<xs:complexType name="VersionedReference">
   <xs:attribute name="id" type="xs:string" use="required"/>
   <xs:attribute name="version" type="xs:string" use="optional"/>
</xs:complexType>
```

top

Complex Type: WindSpeedValue

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

Name	WindSpeedValue
Abstract	no

XML Instance Representation

```
<...
 accuracy="com:Percentage [0..1]"
 computationMethod="com:ComputationMethodEnum [0..1]"
 numberOfIncompleteInputs="com:NonNegativeInteger [0..1]"
 numberOfInputValuesUsed="com:NonNegativeInteger [0..1]"
 smoothingFactor="com:Float [0..1]"
 standardDeviation="com:Float [0..1]"
 supplierCalculatedDataQuality="com:Percentage [0..1]">
   <com:dataError> com:Boolean </com:dataError> [0..1]
   <com:reasonForDataError> com:MultilingualString </com:reasonForDataError> [0..1]
   <com:_dataValueExtension> com:_ExtensionType </com:_dataValueExtension> [0..1]
   <com:windSpeed> com:MetresPerSecond </com:windSpeed> [1]
   <com:_windSpeedValueExtension> com:_ExtensionType </com:_windSpeedValueExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="WindSpeedValue">
   <xs:complexContent>
      <xs:extension base="com:DataValue">
         <xs:sequence>
            <xs:element name="windSpeed" type="com:MetresPerSecond" minOccurs="1" maxOccurs="1"/>
            <xs:element name="_windSpeedValueExtension" type="com:_ExtensionType" minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _ComputationMethodEnum

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

Name _ComputationMethodEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:ComputationMethodEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_ComputationMethodEnum">
   <xs:simpleContent>
      <xs:extension base="com:ComputationMethodEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DangerousGoodsRegulationsEnum

Super-types:	xs:string < DangerousGoodsRegulationsEnum (by restriction) < **_DangerousGoodsRegulationsEnum** (by extension)
Sub-types:	None

Name _DangerousGoodsRegulationsEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:DangerousGoodsRegulationsEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_DangerousGoodsRegulationsEnum">
   <xs:simpleContent>
      <xs:extension base="com:DangerousGoodsRegulationsEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _DirectionCompassEnum

Super-types:	xs:string < DirectionCompassEnum (by restriction) < **_DirectionCompassEnum** (by extension)
Sub-types:	None

Name _DirectionCompassEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:DirectionCompassEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_DirectionCompassEnum">
   <xs:simpleContent>
      <xs:extension base="com:DirectionCompassEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</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: _FuelTypeEnum

Super-types:	xs:string < FuelTypeEnum (by restriction) < **_FuelTypeEnum** (by extension)
Sub-types:	None

Name	_FuelTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:FuelTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_FuelTypeEnum">
   <xs:simpleContent>
      <xs:extension base="com:FuelTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _LoadTypeEnum

Super-types:	xs:string < LoadTypeEnum (by restriction) < **_LoadTypeEnum** (by extension)
Sub-types:	None

Name	_LoadTypeEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:LoadTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_LoadTypeEnum">
   <xs:simpleContent>
      <xs:extension base="com:LoadTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _VehicleEquipmentEnum

Super-types:	xs:string < VehicleEquipmentEnum (by restriction) < **_VehicleEquipmentEnum** (by extension)
Sub-types:	None

Name	_VehicleEquipmentEnum
Abstract	no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:VehicleEquipmentEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_VehicleEquipmentEnum">
   <xs:simpleContent>
      <xs:extension base="com:VehicleEquipmentEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _VehicleTypeEnum

Super-types:	xs:string < VehicleTypeEnum (by restriction) < **_VehicleTypeEnum** (by extension)
Sub-types:	None

Name _VehicleTypeEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:VehicleTypeEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_VehicleTypeEnum">
   <xs:simpleContent>
      <xs:extension base="com:VehicleTypeEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Complex Type: _VehicleUsageEnum

Super-types:	xs:string < VehicleUsageEnum (by restriction) < **_VehicleUsageEnum** (by extension)
Sub-types:	None

Name _VehicleUsageEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   com:VehicleUsageEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_VehicleUsageEnum">
   <xs:simpleContent>
      <xs:extension base="com:VehicleUsageEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Simple Type: AngleInDegrees

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

Name AngleInDegrees

Content

- Base XSD Type: nonNegativeInteger
- 0 <= *value* <= 359

Schema Component Representation

```
<xs:simpleType name="AngleInDegrees">
   <xs:restriction base="com:NonNegativeInteger">
      <xs:minInclusive value="0"/>
      <xs:maxInclusive value="359"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: Boolean

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

Name Boolean

Content

- Base XSD Type: boolean

Schema Component Representation

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

top

Simple Type: ComputationMethodEnum

Super-types:	xs:string < **ComputationMethodEnum** (by restriction)
Sub-types:	• _ComputationMethodEnum (by extension)

Name ComputationMethodEnum

Content

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

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

top

Simple Type: ConcentrationKilogramsPerCubicMetre

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

Name ConcentrationKilogramsPerCubicMetre

Content

- Base XSD Type: float

Schema Component Representation

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

top

Simple Type: ConcentrationMicrogramsPerCubicMetre

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

Name ConcentrationMicrogramsPerCubicMetre

Content

- Base XSD Type: float

Schema Component Representation

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

top

Simple Type: CountryCode

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

Name CountryCode

Content

- Base XSD Type: string
- *length* <= 1024
- *length* <= 2

Schema Component Representation

```
<xs:simpleType name="CountryCode">
   <xs:restriction base="com:String">
      <xs:maxLength value="2"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: CubicMetres

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

Name CubicMetres

Content

- Base XSD Type: float

Schema Component Representation

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

top

Simple Type: DangerousGoodsRegulationsEnum

Super-types:	xs:string < **DangerousGoodsRegulationsEnum** (by restriction)
Sub-types:	_DangerousGoodsRegulationsEnum (by extension)

Name DangerousGoodsRegulationsEnum

Content

- Base XSD Type: string
- *value* comes from list: {'adr'|'iataIcao'|'imoImdg'|'railroadDangerousGoodsBook'|'_extended'}

Schema Component Representation

```
<xs:simpleType name="DangerousGoodsRegulationsEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="adr"/>
      <xs:enumeration value="iataIcao"/>
      <xs:enumeration value="imoImdg"/>
      <xs:enumeration value="railroadDangerousGoodsBook"/>
      <xs:enumeration value="_extended"/>
   </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

Schema Component Representation

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

top

Simple Type: Decimal

Super-types:	xs:decimal < **Decimal** (by restriction)
Sub-types:	None

Name Decimal

Content

- Base XSD Type: decimal

Schema Component Representation

```
<xs:simpleType name="Decimal">
   <xs:restriction base="xs:decimal"/>
</xs:simpleType>
```

top

Simple Type: DirectionCompassEnum

Super-types:	xs:string < **DirectionCompassEnum** (by restriction)
Sub-types:	_DirectionCompassEnum (by extension)

Name DirectionCompassEnum

Content

- Base XSD Type: string
- *value* comes from list: {'east'|'eastNorthEast'|'eastSouthEast'|'north'|'northEast'|'northNorthEast'|'northNorthWest'|'northWest'|'south'|'southEast'|'southSouthEast'|'southSouthWest'|'

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

top

Simple Type: Float

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

Sub-types:

- ConcentrationKilogramsPerCubicMetre (by restriction)
- ConcentrationMicrogramsPerCubicMetre (by restriction)
- CubicMetres (by restriction)
- Hectopascal (by restriction)
- IntensityKilogramsPerSquareMetre (by restriction)
- IntensityMillimetresPerHour (by restriction)
- KilometresPerHour (by restriction)
- MetresAsFloat (by restriction)
- MetresPerSecond (by restriction)
- Percentage (by restriction)
- TemperatureCelsius (by restriction)
- Tonnes (by restriction)

Name Float

Content

- Base XSD Type: float

Schema Component Representation

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

top

Simple Type: FuelTypeEnum

Super-types: xs:string < **FuelTypeEnum** (by restriction)

Sub-types:

- _FuelTypeEnum (by extension)

Name FuelTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'all'|'battery'|'biodiesel'|'diesel'|'dieselBatteryHybrid'|'ethanol'|'hydrogen'|'liquidGas'|'lpg'|'methane'|'petrol'|'petrol95Octane'|'petrol98Octane'|'petrolBatteryHybr

Schema Component Representation

```
<xs:simpleType name="FuelTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="all"/>
    <xs:enumeration value="battery"/>
    <xs:enumeration value="biodiesel"/>
    <xs:enumeration value="diesel"/>
    <xs:enumeration value="dieselBatteryHybrid"/>
    <xs:enumeration value="ethanol"/>
    <xs:enumeration value="hydrogen"/>
    <xs:enumeration value="liquidGas"/>
    <xs:enumeration value="lpg"/>
    <xs:enumeration value="methane"/>
    <xs:enumeration value="petrol"/>
    <xs:enumeration value="petrol95Octane"/>
    <xs:enumeration value="petrol98Octane"/>
    <xs:enumeration value="petrolBatteryHybrid"/>
    <xs:enumeration value="petrolLeaded"/>
    <xs:enumeration value="petrolUnleaded"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: Hectopascal

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

Name Hectopascal

Content

- Base XSD Type: float

Schema Component Representation

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

top

Simple Type: Integer

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

Name Integer

Content

- Base XSD Type: integer

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

Schema Component Representation

```
<xs:simpleType name="IntensityKilogramsPerSquareMetre">
   <xs:restriction base="com: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="com: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

Schema Component Representation

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

top

Simple Type: Language

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

Name Language

Content

- Base XSD Type: language

Schema Component Representation

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

top

Simple Type: LoadTypeEnum

Super-types:	xs:string < **LoadTypeEnum** (by restriction)
Sub-types:	_LoadTypeEnum (by extension)

Name LoadTypeEnum

Content

- Base XSD Type: string
- *value* comes from list: {'abnormalLoad'|'ammunition'|'chemicals'|'combustibleMaterials'|'corrosiveMaterials'|'debris'|'empty'|'explosiveMaterials'|'extraHighLoad'|'extraLongLoad'|'extr

Schema Component Representation

```
<xs:simpleType name="LoadTypeEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="abnormalLoad"/>
      <xs:enumeration value="ammunition"/>
      <xs:enumeration value="chemicals"/>
      <xs:enumeration value="combustibleMaterials"/>
      <xs:enumeration value="corrosiveMaterials"/>
      <xs:enumeration value="debris"/>
      <xs:enumeration value="empty"/>
      <xs:enumeration value="explosiveMaterials"/>
      <xs:enumeration value="extraHighLoad"/>
      <xs:enumeration value="extraLongLoad"/>
      <xs:enumeration value="extraWideLoad"/>
      <xs:enumeration value="fuel"/>
      <xs:enumeration value="glass"/>
      <xs:enumeration value="goods"/>
      <xs:enumeration value="hazardousMaterials"/>
      <xs:enumeration value="liquid"/>
      <xs:enumeration value="livestock"/>
      <xs:enumeration value="materials"/>
      <xs:enumeration value="materialsDangerousForPeople"/>
      <xs:enumeration value="materialsDangerousForTheEnvironment"/>
      <xs:enumeration value="materialsDangerousForWater"/>
      <xs:enumeration value="oil"/>
      <xs:enumeration value="ordinary"/>
      <xs:enumeration value="perishableProducts"/>
      <xs:enumeration value="petrol"/>
      <xs:enumeration value="pharmaceuticalMaterials"/>
      <xs:enumeration value="radioactiveMaterials"/>
      <xs:enumeration value="refrigeratedGoods"/>
      <xs:enumeration value="refuse"/>
      <xs:enumeration value="toxicMaterials"/>
      <xs:enumeration value="vehicles"/>
      <xs:enumeration value="other"/>
      <xs:enumeration value="_extended"/>
   </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

Schema Component Representation

```
<xs:simpleType name="MetresAsFloat">
   <xs:restriction base="com: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

Schema Component Representation

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

top

Simple Type: MetresPerSecond

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

Name MetresPerSecond

Content

- Base XSD Type: float

Schema Component Representation

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

top

Simple Type: MultilingualStringValueType

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

Name MultilingualStringValueType

Content

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

Schema Component Representation

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

top

Simple Type: NonNegativeInteger

Super-types:	xs:nonNegativeInteger < **NonNegativeInteger** (by restriction)
Sub-types:	• AngleInDegrees (by restriction) • MetresAsNonNegativeInteger (by restriction) • VehiclesPerHour (by restriction) • Year (by restriction)

Name NonNegativeInteger

Content

- Base XSD Type: nonNegativeInteger

Schema Component Representation

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

Schema Component Representation

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

top

Simple Type: String

Super-types:	xs:string < **String** (by restriction)
Sub-types:	• CountryCode (by restriction)

Name String

Content

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

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

Schema Component Representation

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

top

Simple Type: Tonnes

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

Name Tonnes

Content

- Base XSD Type: float

Schema Component Representation

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

top

Simple Type: VehicleEquipmentEnum

Super-types:	xs:string < **VehicleEquipmentEnum** (by restriction)
Sub-types:	• _VehicleEquipmentEnum (by extension)

Name VehicleEquipmentEnum

Content

- Base XSD Type: string
- *value* comes from list: {'notUsingSnowChains'|'notUsingSnowChainsOrTyres'|'snowChainsInUse'|'snowTyresInUse'|'snowChainsOrTyresInUse'|'withoutSnowTyresOrChainsOnBoa

Schema Component Representation

```
<xs:simpleType name="VehicleEquipmentEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="notUsingSnowChains"/>
      <xs:enumeration value="notUsingSnowChainsOrTyres"/>
      <xs:enumeration value="snowChainsInUse"/>
      <xs:enumeration value="snowTyresInUse"/>
      <xs:enumeration value="snowChainsOrTyresInUse"/>
      <xs:enumeration value="withoutSnowTyresOrChainsOnBoard"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

top

Simple Type: VehicleTypeEnum

Super-types:	xs:string < **VehicleTypeEnum** (by restriction)
Sub-types:	

- _VehicleTypeEnum (by extension)

Name VehicleTypeEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'agriculturalVehicle'|'anyVehicle'|'articulatedBus'|'articulatedTrolleyBus'|'articulatedVehicle'|'bicycle'|'bus'|'car'|'caravan'|'carOrLightVehicle'|'carWithCaravan'|'c

Schema Component Representation

```
<xs:simpleType name="VehicleTypeEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="agriculturalVehicle"/>
    <xs:enumeration value="anyVehicle"/>
    <xs:enumeration value="articulatedBus"/>
    <xs:enumeration value="articulatedTrolleyBus"/>
    <xs:enumeration value="articulatedVehicle"/>
    <xs:enumeration value="bicycle"/>
    <xs:enumeration value="bus"/>
    <xs:enumeration value="car"/>
    <xs:enumeration value="caravan"/>
    <xs:enumeration value="carOrLightVehicle"/>
    <xs:enumeration value="carWithCaravan"/>
    <xs:enumeration value="carWithTrailer"/>
    <xs:enumeration value="constructionOrMaintenanceVehicle"/>
    <xs:enumeration value="fourWheelDrive"/>
    <xs:enumeration value="heavyGoodsVehicle"/>
    <xs:enumeration value="heavyGoodsVehicleWithTrailer"/>
    <xs:enumeration value="heavyDutyTransporter"/>
    <xs:enumeration value="heavyVehicle"/>
    <xs:enumeration value="highSidedVehicle"/>
    <xs:enumeration value="lightCommercialVehicle"/>
    <xs:enumeration value="largeCar"/>
    <xs:enumeration value="largeGoodsVehicle"/>
    <xs:enumeration value="lightCommercialVehicleWithTrailer"/>
    <xs:enumeration value="longHeavyLorry"/>
    <xs:enumeration value="lorry"/>
    <xs:enumeration value="metro"/>
    <xs:enumeration value="minibus"/>
    <xs:enumeration value="moped"/>
    <xs:enumeration value="motorcycle"/>
    <xs:enumeration value="motorcycleWithSideCar"/>
    <xs:enumeration value="motorhome"/>
    <xs:enumeration value="motorscooter"/>
    <xs:enumeration value="passengerCar"/>
    <xs:enumeration value="smallCar"/>
    <xs:enumeration value="tanker"/>
    <xs:enumeration value="threeWheeledVehicle"/>
    <xs:enumeration value="trailer"/>
    <xs:enumeration value="tram"/>
    <xs:enumeration value="trolleyBus"/>
    <xs:enumeration value="twoWheeledVehicle"/>
    <xs:enumeration value="van"/>
    <xs:enumeration value="vehicleWithCaravan"/>
    <xs:enumeration value="vehicleWithCatalyticConverter"/>
    <xs:enumeration value="vehicleWithoutCatalyticConverter"/>
    <xs:enumeration value="vehicleWithTrailer"/>
    <xs:enumeration value="withEvenNumberedRegistrationPlates"/>
    <xs:enumeration value="withOddNumberedRegistrationPlates"/>
    <xs:enumeration value="unknown"/>
    <xs:enumeration value="other"/>
    <xs:enumeration value="_extended"/>
  </xs:restriction>
</xs:simpleType>
```

top

Simple Type: VehicleUsageEnum

Super-types: xs:string < **VehicleUsageEnum** (by restriction)

Sub-types:

- _VehicleUsageEnum (by extension)

Name VehicleUsageEnum

Content

- Base XSD Type: string
- *value* comes from list:
{'agricultural'|'carSharing'|'cityLogistics'|'commercial'|'emergencyServices'|'military'|'nonCommercial'|'patrol'|'recoveryServices'|'roadMaintenanceOrConstructi

Schema Component Representation

```
<xs:simpleType name="VehicleUsageEnum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="agricultural"/>
    <xs:enumeration value="carSharing"/>
    <xs:enumeration value="cityLogistics"/>
    <xs:enumeration value="commercial"/>
    <xs:enumeration value="emergencyServices"/>
    <xs:enumeration value="military"/>
    <xs:enumeration value="nonCommercial"/>
    <xs:enumeration value="patrol"/>
    <xs:enumeration value="recoveryServices"/>
    <xs:enumeration value="roadMaintenanceOrConstruction"/>
    <xs:enumeration value="roadOperator"/>
    <xs:enumeration value="taxi"/>
    <xs:enumeration value="_extended"/>
  </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

Schema Component Representation

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

top

Simple Type: Year

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

Name Year

Content

- Base XSD Type: nonNegativeInteger

Schema Component Representation

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

top

EV Actual Status - D2Payload

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Schema Document Properties

Target Namespace	**http://levelC/schema/3/d2Payload**
Version	3.0
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.

Schema Composition	• This schema imports schema(s) from the following namespace(s):
	  ◦ *http://levelC/schema/3/facilities* (at LevelC_3_Facilities.xsd)
	  ◦ *http://levelC/schema/3/energyInfrastructure* (at LevelC_3_EnergyInfrastructure.xsd)
	  ◦ *http://levelC/schema/3/common* (at LevelC_3_Common.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
fac	http://levelC/schema/3/facilities
egi	http://levelC/schema/3/energyInfrastructure
com	http://levelC/schema/3/common
d2	**http://levelC/schema/3/d2Payload**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified"
version="3.0" targetNamespace="http://levelC/schema/3/d2Payload">
   <xs:import namespace="http://levelC/schema/3/facilities"
   schemaLocation="LevelC_3_Facilities.xsd"/>
   <xs:import namespace="http://levelC/schema/3/energyInfrastructure"
   schemaLocation="LevelC_3_EnergyInfrastructure.xsd"/>
   <xs:import namespace="http://levelC/schema/3/common"
   schemaLocation="LevelC_3_Common.xsd"/>
   ...
</xs:schema>
```

top

Global Declarations

Element: payload

Name	payload
Type	com:PayloadPublication
Nillable	no
Abstract	no

XML Instance Representation

```
<d2:payload> com:PayloadPublication </d2:payload>
```

Schema Component Representation

```
<xs:element name="payload" type="com:PayloadPublication"/>
```

top

EV Actual Status - energy infrastructure

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Schema Document Properties

Target Namespace	**http://levelC/schema/3/energyInfrastructure**
Version	00-05-00
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.

Schema Composition	• This schema imports schema(s) from the following namespace(s):
	  ◦ *http://levelC/schema/3/common* (at LevelC_3_Common.xsd)
	  ◦ *http://levelC/schema/3/facilities* (at LevelC_3_Facilities.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
com	http://levelC/schema/3/common
fac	http://levelC/schema/3/facilities
egi	**http://levelC/schema/3/energyInfrastructure**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified" version="00-05-00"
targetNamespace="http://levelC/schema/3/energyInfrastructure">
   <xs:import namespace="http://levelC/schema/3/common" schemaLocation="LevelC_3_Common.xsd"/>
   <xs:import namespace="http://levelC/schema/3/facilities" schemaLocation="LevelC_3_Facilities.xsd"/>
   ...
</xs:schema>
```

top

Global Definitions

Complex Type: EnergyInfrastructureSiteStatus

Super-types:	None
Sub-types:	None

Name	EnergyInfrastructureSiteStatus
Abstract	no

XML Instance Representation

```
<...>
   <egi:siteReference> egi:_EnergyInfrastructureSiteVersionedReference </egi:siteReference> [1]
   <egi:lastUpdate> com:DateTime </egi:lastUpdate> [1]
   <egi:energyInfrastructureStationStatus> egi:EnergyInfrastructureStationStatus
   </egi:energyInfrastructureStationStatus> [0..*]
   <egi:_energyInfrastructureSiteStatusExtension> com:_ExtensionType </egi:_energyInfrastructureSiteStatusExtension>
   [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="EnergyInfrastructureSiteStatus">
   <xs:sequence>
      <xs:element name="siteReference" type="egi:_EnergyInfrastructureSiteVersionedReference" minOccurs="1"
      maxOccurs="1"/>
      <xs:element name="lastUpdate" type="com:DateTime" minOccurs="1" maxOccurs="1"/>
      <xs:element name="energyInfrastructureStationStatus" type="egi:EnergyInfrastructureStationStatus" minOccurs="0"
      maxOccurs="unbounded"/>
      <xs:element name="_energyInfrastructureSiteStatusExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
```

top

Complex Type: EnergyInfrastructureStationStatus

Super-types:	None

Sub-types:	None

Name EnergyInfrastructureStationStatus

Abstract no

XML Instance Representation

```
<...
 infrastructureStationIndex="com:Integer [1]">
   <egi:refillPointStatus> egi:RefillPointStatus </egi:refillPointStatus> [0..*]
   <egi:_energyInfrastructureStationStatusExtension> com:_ExtensionType
   </egi:_energyInfrastructureStationStatusExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="EnergyInfrastructureStationStatus">
   <xs:sequence>
      <xs:element name="refillPointStatus" type="egi:RefillPointStatus" minOccurs="0" maxOccurs="unbounded"/>
      <xs:element name="_energyInfrastructureStationStatusExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
   <xs:attribute name="infrastructureStationIndex" type="com:Integer" use="required"/>
</xs:complexType>
```

top

Complex Type: EnergyInfrastructureStatusPublication

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

Name EnergyInfrastructureStatusPublication

Abstract no

XML Instance Representation

```
<...>
   <!-- 'com:PayloadPublication' super type was not found in this schema. Some elements and attributes may be
   missing. -->
   <egi:energyInfrastructureSiteStatus> egi:EnergyInfrastructureSiteStatus </egi:energyInfrastructureSiteStatus>
   [0..*]
   <egi:_energyInfrastructureStatusPublicationExtension> com:_ExtensionType
   </egi:_energyInfrastructureStatusPublicationExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="EnergyInfrastructureStatusPublication">
   <xs:complexContent>
      <xs:extension base="com:PayloadPublication">
         <xs:sequence>
            <xs:element name="energyInfrastructureSiteStatus" type="egi:EnergyInfrastructureSiteStatus" minOccurs="0"
            maxOccurs="unbounded"/>
            <xs:element name="_energyInfrastructureStatusPublicationExtension" type="com:_ExtensionType"
            minOccurs="0"/>
         </xs:sequence>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: RefillPointStatus

Super-types:	None
Sub-types:	None

Name RefillPointStatus

Abstract no

XML Instance Representation

```
<...
 refillPointIndex="com:Integer [1]">
   <egi:currentStatus> egi:_RefillPointStatusEnum </egi:currentStatus> [1]
   <egi:pricePerHour> fac:AmountOfMoney </egi:pricePerHour> [0..1]
   <egi:pricePerMinute> fac:AmountOfMoney </egi:pricePerMinute> [0..1]
   <egi:pricePerUnit> fac:AmountOfMoney </egi:pricePerUnit> [0..1]
   <egi:_refillPointStatusExtension> com:_ExtensionType </egi:_refillPointStatusExtension> [0..1]
</...>
```

Schema Component Representation

```
<xs:complexType name="RefillPointStatus">
   <xs:sequence>
      <xs:element name="currentStatus" type="egi:_RefillPointStatusEnum" minOccurs="1" maxOccurs="1"/>
      <xs:element name="pricePerHour" type="fac:AmountOfMoney" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pricePerMinute" type="fac:AmountOfMoney" minOccurs="0" maxOccurs="1"/>
      <xs:element name="pricePerUnit" type="fac:AmountOfMoney" minOccurs="0" maxOccurs="1"/>
      <xs:element name="_refillPointStatusExtension" type="com:_ExtensionType" minOccurs="0"/>
   </xs:sequence>
   <xs:attribute name="refillPointIndex" type="com:Integer" use="required"/>
</xs:complexType>
```

top

Complex Type: _EnergyInfrastructureSiteVersionedReference

Super-types:	com:VersionedReference < **_EnergyInfrastructureSiteVersionedReference** (by extension)
Sub-types:	None

Name _EnergyInfrastructureSiteVersionedReference

Abstract no

XML Instance Representation

```
<...
 targetClass="egi:EnergyInfrastructureSite [1]">
   <!-- 'com:VersionedReference' super type was not found in this schema. Some elements and attributes may be
   missing. -->
</...>
```

Schema Component Representation

```
<xs:complexType name="_EnergyInfrastructureSiteVersionedReference">
   <xs:complexContent>
      <xs:extension base="com:VersionedReference">
         <xs:attribute name="targetClass" type="xs:string" use="required" fixed="egi:EnergyInfrastructureSite"/>
      </xs:extension>
   </xs:complexContent>
</xs:complexType>
```

top

Complex Type: _RefillPointStatusEnum

Super-types:	xs:string < RefillPointStatusEnum (by restriction) < **_RefillPointStatusEnum** (by extension)
Sub-types:	None

Name _RefillPointStatusEnum

Abstract no

XML Instance Representation

```
<...
 _extendedValue="xs:string [0..1]">
   egi:RefillPointStatusEnum
</...>
```

Schema Component Representation

```
<xs:complexType name="_RefillPointStatusEnum">
   <xs:simpleContent>
      <xs:extension base="egi:RefillPointStatusEnum">
         <xs:attribute name="_extendedValue" type="xs:string"/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

top

Simple Type: RefillPointStatusEnum

Super-types:	xs:string < **RefillPointStatusEnum** (by restriction)
Sub-types:	• _RefillPointStatusEnum (by extension)

Name RefillPointStatusEnum

Content

- Base XSD Type: string
- *value* comes from list:
  {'available'|'blocked'|'charging'|'faulted'|'inoperative'|'occupied'|'outOfOrder'|'outOfStock'|'planned'|'removed'|'reserved'|'unavailable'|'unknown'|'_extended'}

Schema Component Representation

```
<xs:simpleType name="RefillPointStatusEnum">
   <xs:restriction base="xs:string">
      <xs:enumeration value="available"/>
      <xs:enumeration value="blocked"/>
      <xs:enumeration value="charging"/>
      <xs:enumeration value="faulted"/>
      <xs:enumeration value="inoperative"/>
      <xs:enumeration value="occupied"/>
      <xs:enumeration value="outOfOrder"/>
      <xs:enumeration value="outOfStock"/>
      <xs:enumeration value="planned"/>
      <xs:enumeration value="removed"/>
      <xs:enumeration value="reserved"/>
      <xs:enumeration value="unavailable"/>
      <xs:enumeration value="unknown"/>
      <xs:enumeration value="_extended"/>
   </xs:restriction>
</xs:simpleType>
```

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EV Actual Status - facilities

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Schema Document Properties

Target Namespace	**http://levelC/schema/3/facilities**
Version	3.0
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.
Schema Composition	• This schema imports schema(s) from the following namespace(s): ◦ *http://levelC/schema/3/common* (at LevelC_3_Common.xsd)

Declared Namespaces

Prefix	Namespace
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema
com	http://levelC/schema/3/common
fac	**http://levelC/schema/3/facilities**

Schema Component Representation

```
<xs:schema elementFormDefault="qualified" attributeFormDefault="unqualified"
version="3.0" targetNamespace="http://levelC/schema/3/facilities">
   <xs:import namespace="http://levelC/schema/3/common"
   schemaLocation="LevelC_3_Common.xsd"/>
   ...
</xs:schema>
```

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Global Definitions

Simple Type: AmountOfMoney

Super-types:	com:Decimal < **AmountOfMoney** (by restriction)
Sub-types:	None

Name	AmountOfMoney

Content

- **'Decimal' super type was not found in this schema. Its facets could not be printed out.**
- *total no. of digits* = 8
- *no. of fraction digits* = 2

Schema Component Representation

```
<xs:simpleType name="AmountOfMoney">
   <xs:restriction base="com:Decimal">
      <xs:totalDigits value="8"/>
      <xs:fractionDigits value="2"/>
   </xs:restriction>
</xs:simpleType>
```

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