Schema documentation for DigitalModels.xsd

march 12, 2018

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Namespace: "eu:faredge:faredgedm"

Schema(s)

Main schema `DigitalModels.xsd`

Namespace	eu:faredge:faredgedm	
Properties	attribute form default: `unqualified`	
	element form default: `qualified`	
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd	

Element(s)

Element `dm:FarEdgeDM`

Namespace	eu:faredge:faredgedm
Annotations	FAR-Edge Digital Model
Diagram	
Properties	content: complex
Model	dm:description{0,1} , dm:AdditionalInformation* , dm:FDEM , dm:DataDefinitions , dm:DataManipulation , dm:EdgeGateway* , dm:LiveDataSet*
Children	dm:AdditionalInformation, dm:DataDefinitions, dm:DataManipulation, dm:EdgeGateway, dm:FDEM, dm:LiveDataSet, dm:description

Instance	`<dm:FarEdgeDM id="" name="" namespace="" xmlns:dm="eu:faredge:faredgedm">`
	`  <dm:description>{0,1}</dm:description>`
	`  <dm:AdditionalInformation>{0,unbounded}</dm:AdditionalInformation>`
	`  <dm:FDEM>{1,1}</dm:FDEM>`
	`  <dm:DataDefinitions>{1,1}</dm:DataDefinitions>`
	`  <dm:DataManipulation>{1,1}</dm:DataManipulation>`
	`  <dm:EdgeGateway id="" macAddress="" name="" namespace="">{0,unbounded}</dm:EdgeGateway>`
	`  <dm:LiveDataSet DataSourceManifestReferenceID="" mobile="false">{0,unbounded}</dm:LiveDataSet>`
	`</dm:FarEdgeDM>`

Attributes					
	QName	**Type**	**Fixed**	**Default**	**Use**
	id	xs:anyURI			optional
	name	xs:string			optional
	namespace	xs:string			optional
		For scope hierarchy.			

Source	`<xs:element name="FarEdgeDM">`

```xml
  <xs:annotation>
    <xs:documentation>FAR-Edge Digital Model</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="description" minOccurs="0" type="xs:string">
        <xs:annotation>
          <xs:documentation>Textual description for the FAR-EDGE Digital Model</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element maxOccurs="unbounded" minOccurs="0" ref="dm:AdditionalInformation"/>
      <xs:element name="FDEM">
        <xs:annotation>
          <xs:documentation>Functional Domains and crosscutting functions Entity Mapping (FDEM).
Entity mapping between (Automation, Analytics, Simulation) and (Field Abstraction and Data
Routing).</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="SDRMs">
              <xs:annotation>
                <xs:documentation>Simulation and Data Routing Mappings</xs:documentation>
              </xs:annotation>
              <xs:complexType>
                <xs:sequence>
                  <xs:element maxOccurs="unbounded" minOccurs="0" name="SDRM">
                    <xs:annotation>
                      <xs:documentation>Simulation and Data Routing Mapping.</xs:documentation>
                    </xs:annotation>
                    <xs:complexType>
                      <xs:sequence>
                        <xs:element name="DataSourceManifestReferenceID" type="xs:anyURI">
                          <xs:annotation>
                            <xs:documentation>The Reference ID of an existing Data Source Manifest
of the Data Routing function.</xs:documentation>
                          </xs:annotation>
                        </xs:element>
                        <xs:element name="SimulationLogicalEntityAttributeReferenceID"
type="xs:anyURI">
                          <xs:annotation>
                            <xs:documentation>The Reference ID of an existing Logical Entity
Attribute of Simulation Domain.</xs:documentation>
                          </xs:annotation>
                        </xs:element>
                      </xs:sequence>
                      <xs:attribute name="id" type="xs:anyURI"/>
                    </xs:complexType>
                  </xs:element>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="DataDefinitions">
        <xs:annotation>
          <xs:documentation>Digital Models Data Definitions</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element maxOccurs="unbounded" minOccurs="0" ref="dsd:DSD"/>
            <xs:element maxOccurs="unbounded" minOccurs="0" ref="di:DI"/>
            <xs:element maxOccurs="unbounded" minOccurs="0" ref="dt:DK"/>
            <xs:element maxOccurs="unbounded" minOccurs="0" ref="apd:APD"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="DataManipulation">
        <xs:annotation>
          <xs:documentation>Digital Models Data Manipulation</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element maxOccurs="unbounded" minOccurs="0" ref="dcd:DCD"/>
            <xs:element maxOccurs="unbounded" minOccurs="0" ref="apm:APM"/>
            <xs:element maxOccurs="unbounded" minOccurs="0" ref="am:AM"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element ref="dm:EdgeGateway" maxOccurs="unbounded" minOccurs="0"/>
      <xs:element ref="dm:LiveDataSet" maxOccurs="unbounded" minOccurs="0"/>
    </xs:sequence>
    <xs:attribute name="id" type="xs:anyURI"/>
```
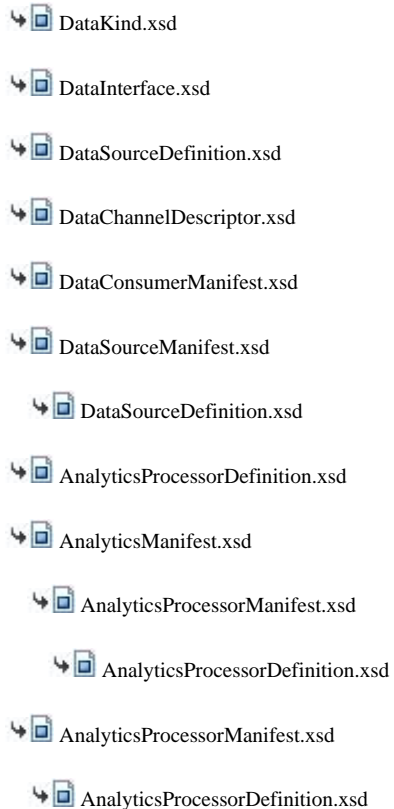
```
        <xs:attribute name="name" type="xs:string"/>
        <xs:attribute name="namespace" type="xs:string">
          <xs:annotation>
            <xs:documentation>For scope hierarchy.</xs:documentation>
          </xs:annotation>
        </xs:attribute>
      </xs:complexType>
    </xs:element>
```

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:FarEdgeDM / dm:description`

Namespace	eu:faredge:faredgedm
Annotations	Textual description for the FAR-EDGE Digital Model
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Source	`<xs:element name="description" minOccurs="0" type="xs:string">`
	`  <xs:annotation>`
	`    <xs:documentation>Textual description for the FAR-EDGE Digital Model</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:AdditionalInformation`

Namespace	eu:faredge:faredgedm
Annotations	Optional auxiliary field that may contain any additional information
Diagram	
Used by	Elements dm:EdgeGateway, dm:FarEdgeDM

Source	`<xs:element name="AdditionalInformation" type="xs:anyType">`
	`  <xs:annotation>`
	`    <xs:documentation>Optional auxiliary field that may contain any additional information</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:FarEdgeDM / dm:FDEM`

Namespace	eu:faredge:faredgedm
Annotations	Functional Domains and crosscutting functions Entity Mapping (FDEM). Entity mapping between (Automation, Analytics, Simulation) and (Field Abstraction and Data Routing).

Diagram	
Properties	content: complex
Model	dm:SDRMs{0,1}
Children	dm:SDRMs
| Instance | ```xml
<dm:FDEM xmlns:dm="eu:faredge:faredgedm">
  <dm:SDRMs>{0,1}</dm:SDRMs>
</dm:FDEM>
``` |
| Source | ```xml
<xs:element name="FDEM">
  <xs:annotation>
    <xs:documentation>Functional Domains and crosscutting functions Entity Mapping (FDEM). Entity
 mapping between (Automation, Analytics, Simulation) and (Field Abstraction and Data Routing).</
xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="SDRMs">
        <xs:annotation>
          <xs:documentation>Simulation and Data Routing Mappings</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element maxOccurs="unbounded" minOccurs="0" name="SDRM">
              <xs:annotation>
                <xs:documentation>Simulation and Data Routing Mapping.</xs:documentation>
              </xs:annotation>
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="DataSourceManifestReferenceID" type="xs:anyURI">
                    <xs:annotation>
                      <xs:documentation>The Reference ID of an existing Data Source Manifest of the
 Data Routing function.</xs:documentation>
                    </xs:annotation>
                  </xs:element>
                  <xs:element name="SimulationLogicalEntityAttributeReferenceID" type="xs:anyURI">
                    <xs:annotation>
                      <xs:documentation>The Reference ID of an existing Logical Entity Attribute of
 Simulation Domain.</xs:documentation>
                    </xs:annotation>
                  </xs:element>
                </xs:sequence>
                <xs:attribute name="id" type="xs:anyURI"/>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
``` |
| Schema location | file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd |

Element `dm:FarEdgeDM / dm:FDEM / dm:SDRMs`

Namespace	eu:faredge:faredgedm
Annotations	Simulation and Data Routing Mappings
Diagram	
Properties	content: complex

	minOccurs: 0
Model	dm:SDRM*
Children	dm:SDRM

Instance	`<dm:SDRMs xmlns:dm="eu:faredge:faredgedm">`
	  `<dm:SDRM id="">{0,unbounded}</dm:SDRM>`
	`</dm:SDRMs>`

Source	`<xs:element minOccurs="0" name="SDRMs">`
	  `<xs:annotation>`
	    `<xs:documentation>Simulation and Data Routing Mappings</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:complexType>`
	    `<xs:sequence>`
	      `<xs:element maxOccurs="unbounded" minOccurs="0" name="SDRM">`
	        `<xs:annotation>`
	          `<xs:documentation>Simulation and Data Routing Mapping.</xs:documentation>`
	        `</xs:annotation>`
	        `<xs:complexType>`
	          `<xs:sequence>`
	            `<xs:element name="DataSourceManifestReferenceID" type="xs:anyURI">`
	              `<xs:annotation>`
	                `<xs:documentation>The Reference ID of an existing Data Source Manifest of the Data Routing function.</xs:documentation>`
	              `</xs:annotation>`
	            `</xs:element>`
	            `<xs:element name="SimulationLogicalEntityAttributeReferenceID" type="xs:anyURI">`
	              `<xs:annotation>`
	                `<xs:documentation>The Reference ID of an existing Logical Entity Attribute of Simulation Domain.</xs:documentation>`
	              `</xs:annotation>`
	            `</xs:element>`
	          `</xs:sequence>`
	          `<xs:attribute name="id" type="xs:anyURI"/>`
	        `</xs:complexType>`
	      `</xs:element>`
	    `</xs:sequence>`
	  `</xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:FarEdgeDM` / `dm:FDEM` / `dm:SDRMs` / `dm:SDRM`

Namespace	eu:faredge:faredgedm
Annotations	Simulation and Data Routing Mapping.
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	dm:DataSourceManifestReferenceID , dm:SimulationLogicalEntityAttributeReferenceID
Children	dm:DataSourceManifestReferenceID, dm:SimulationLogicalEntityAttributeReferenceID

Instance	`<dm:SDRM id="" xmlns:dm="eu:faredge:faredgedm">`
	  `<dm:DataSourceManifestReferenceID>{1,1}</dm:DataSourceManifestReferenceID>`
	  `<dm:SimulationLogicalEntityAttributeReferenceID>{1,1}</dm:SimulationLogicalEntityAttributeReferenceID>`
	`</dm:SDRM>`

Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional

Source	```xml
	<xs:element maxOccurs="unbounded" minOccurs="0" name="SDRM">
	  <xs:annotation>
	    <xs:documentation>Simulation and Data Routing Mapping.</xs:documentation>
	  </xs:annotation>
	  <xs:complexType>
	    <xs:sequence>
	      <xs:element name="DataSourceManifestReferenceID" type="xs:anyURI">
	        <xs:annotation>
	          <xs:documentation>The Reference ID of an existing Data Source Manifest of the Data Routing
	function.</xs:documentation>
	        </xs:annotation>
	      </xs:element>
	      <xs:element name="SimulationLogicalEntityAttributeReferenceID" type="xs:anyURI">
	        <xs:annotation>
	          <xs:documentation>The Reference ID of an existing Logical Entity Attribute of Simulation
	Domain.</xs:documentation>
	        </xs:annotation>
	      </xs:element>
	    </xs:sequence>
	    <xs:attribute name="id" type="xs:anyURI"/>
	  </xs:complexType>
	</xs:element>
	``

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:FarEdgeDM / dm:FDEM / dm:SDRMs / dm:SDRM / dm:DataSourceManifestReferenceID`

Namespace	eu:faredge:faredgedm
Annotations	The Reference ID of an existing Data Source Manifest of the Data Routing function.
Diagram	
Type	xs:anyURI
Properties	content: simple

Source	```xml
	<xs:element name="DataSourceManifestReferenceID" type="xs:anyURI">
	  <xs:annotation>
	    <xs:documentation>The Reference ID of an existing Data Source Manifest of the Data Routing
	function.</xs:documentation>
	  </xs:annotation>
	</xs:element>
	``

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:FarEdgeDM / dm:FDEM / dm:SDRMs / dm:SDRM / dm:SimulationLogicalEntityAttributeReferenceID`

Namespace	eu:faredge:faredgedm
Annotations	The Reference ID of an existing Logical Entity Attribute of Simulation Domain.
Diagram	
Type	xs:anyURI
Properties	content: simple

Source	```xml
	<xs:element name="SimulationLogicalEntityAttributeReferenceID" type="xs:anyURI">
	  <xs:annotation>
	    <xs:documentation>The Reference ID of an existing Logical Entity Attribute of Simulation
	Domain.</xs:documentation>
	  </xs:annotation>
	</xs:element>
	``

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:FarEdgeDM / dm:DataDefinitions`

Namespace	eu:faredge:faredgedm
Annotations	`Digital Models Data Definitions`
Diagram	
Properties	content: `complex`
Model	dsd:DSD* , dt:DI* , dt:DK* , apd:APD*
Children	apd:APD, dsd:DSD, dt:DI, dt:DK
Instance	```<dm:DataDefinitions xmlns:dm="eu:faredge:faredgedm" xmlns:dsd="eu:faredge:drpp:dsd" xmlns:di="eu:faredge:drpp:di" x <dsd:DSD id="">{0,unbounded}</dsd:DSD> <di:DI id="">{0,unbounded}</di:DI> <dt:DK id="">{0,unbounded}</dt:DK> <apd:APD id="" name="">{0,unbounded}</apd:APD> </dm:DataDefinitions>```
Source	```<xs:element name="DataDefinitions"> <xs:annotation> <xs:documentation>Digital Models Data Definitions</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element maxOccurs="unbounded" minOccurs="0" ref="dsd:DSD"/> <xs:element maxOccurs="unbounded" minOccurs="0" ref="di:DI"/> <xs:element maxOccurs="unbounded" minOccurs="0" ref="dt:DK"/> <xs:element maxOccurs="unbounded" minOccurs="0" ref="apd:APD"/> </xs:sequence> </xs:complexType> </xs:element>```
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:FarEdgeDM / dm:DataManipulation`

Namespace	eu:faredge:faredgedm
Annotations	`Digital Models Data Manipulation`
Diagram	
Properties	content: `complex`
Model	dcd:DCD* , apm:APM* , am:AM*
Children	am:AM, apm:APM, dcd:DCD
Instance	```<dm:DataManipulation xmlns:dm="eu:faredge:faredgedm" xmlns:dcd="eu:faredge:drpp:dcd" xmlns:apm="eu:faredge:ea:proce <dcd:DCD id="">{0,unbounded}</dcd:DCD> <apm:APM id="">{0,unbounded}</apm:APM> <am:AM id="">{0,unbounded}</am:AM>```

	`</dm:DataManipulation>`

Source	```xml
	<xs:element name="DataManipulation">
	  <xs:annotation>
	    <xs:documentation>Digital Models Data Manipulation</xs:documentation>
	  </xs:annotation>
	  <xs:complexType>
	    <xs:sequence>
	      <xs:element maxOccurs="unbounded" minOccurs="0" ref="dcd:DCD"/>
	      <xs:element maxOccurs="unbounded" minOccurs="0" ref="apm:APM"/>
	      <xs:element maxOccurs="unbounded" minOccurs="0" ref="am:AM"/>
	    </xs:sequence>
	  </xs:complexType>
	</xs:element>
	``

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:EdgeGateway`

Namespace	eu:faredge:faredgedm
Annotations	The FAR-EDGE Edge Gateway
Diagram	
Properties	content: complex
Used by	Element dm:FarEdgeDM
Model	dm:description{0,1} , dm:Location{0,1} , dm:AdditionalInformation* , dm:DataManifests , dm:DataManipulation , dm:LiveDataSet*
Children	dm:AdditionalInformation, dm:DataManifests, dm:DataManipulation, dm:LiveDataSet, dm:Location, dm:description

Instance	```xml
	<dm:EdgeGateway id="" macAddress="" name="" namespace="" xmlns:dm="eu:faredge:faredgedm">
	  <dm:description>{0,1}</dm:description>
	  <dm:Location>{0,1}</dm:Location>
	  <dm:AdditionalInformation>{0,unbounded}</dm:AdditionalInformation>
	  <dm:DataManifests>{1,1}</dm:DataManifests>
	  <dm:DataManipulation>{1,1}</dm:DataManipulation>
	``

```
        <dm:LiveDataSet DataSourceManifestReferenceID="" mobile="false">{0,unbounded}</dm:LiveDataSet>
    </dm:EdgeGateway>
```

	QName	Type	Fixed	Default	Use
Attributes	**id**	xs:anyURI			optional
	macAddress	xs:string			optional
	name	xs:string			optional
	namespace	xs:string			optional
		For scope hierarchy.			

| Source | ```xml
<xs:element name="EdgeGateway">
  <xs:annotation>
    <xs:documentation>The FAR-EDGE Edge Gateway</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="description" minOccurs="0" type="xs:string">
        <xs:annotation>
          <xs:documentation>Textual description for the FAR-EDGE Edge Gateway</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element minOccurs="0" ref="dm:Location">
        <xs:annotation>
          <xs:documentation>The Edge Gateway location</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element maxOccurs="unbounded" minOccurs="0" ref="dm:AdditionalInformation"/>
      <xs:element name="DataManifests">
        <xs:annotation>
          <xs:documentation>Edge Gateway Data Manifests</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element maxOccurs="unbounded" ref="dsm:DSM" minOccurs="0"/>
            <xs:element maxOccurs="unbounded" ref="dcm:DCM" minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="DataManipulation">
        <xs:annotation>
          <xs:documentation>Edge Gateway Data Manipulation</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element maxOccurs="unbounded" minOccurs="0" ref="apm:APM"/>
            <xs:element maxOccurs="unbounded" minOccurs="0" ref="am:AM"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element ref="dm:LiveDataSet" maxOccurs="unbounded" minOccurs="0"/>
    </xs:sequence>
    <xs:attribute name="id" type="xs:anyURI"/>
    <xs:attribute name="name" type="xs:string"/>
    <xs:attribute name="namespace" type="xs:string">
      <xs:annotation>
        <xs:documentation>For scope hierarchy.</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="macAddress" type="xs:string"/>
  </xs:complexType>
</xs:element>
``` |
| Schema location | file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd |

Element `dm:EdgeGateway / dm:description`

Namespace	eu:faredge:faredgedm
Annotations	Textual description for the FAR-EDGE Edge Gateway
Diagram	
Type	xs:string

Properties	content:	simple
	minOccurs:	0

Source	`<xs:element name="description" minOccurs="0" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>Textual description for the FAR-EDGE Edge Gateway</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:Location`

Namespace	eu:faredge:faredgedm
Annotations	Indicating the location at which something took place
Diagram	
Properties	content: complex
Used by	Elements dm:EdgeGateway, dm:observation
Model	dm:geoLocation{0,1} | dm:virtualLocation{0,1}
Children	dm:geoLocation, dm:virtualLocation

Instance	`<dm:Location xmlns:dm="eu:faredge:faredgedm">`
	  `<dm:geoLocation>{0,1}</dm:geoLocation>`
	  `<dm:virtualLocation>{0,1}</dm:virtualLocation>`
	`</dm:Location>`

Source	`<xs:element name="Location">`
	  `<xs:annotation>`
	    `<xs:documentation>Indicating the location at which something took place</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:complexType>`
	    `<xs:choice>`
	      `<xs:element maxOccurs="1" minOccurs="0" name="geoLocation">`
	        `<xs:annotation>`
	          `<xs:documentation>Specifying a physical location (a pair of coordinates)</xs:documentation>`
	        `</xs:annotation>`
	        `<xs:complexType>`
	          `<xs:sequence>`
	            `<xs:element name="latitude" type="xs:string"/>`
	            `<xs:element name="longitude" type="xs:string"/>`
	          `</xs:sequence>`
	        `</xs:complexType>`
	      `</xs:element>`
	      `<xs:element minOccurs="0" name="virtualLocation" type="xs:anyURI">`
	        `<xs:annotation>`
	          `<xs:documentation>Specifying a virtual location (it could be the ID of a resource or subsystem)</xs:documentation>`
	        `</xs:annotation>`
	      `</xs:element>`
	    `</xs:choice>`
	  `</xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:Location / dm:geoLocation`

Namespace	eu:faredge:faredgedm
Annotations	Specifying a physical location (a pair of coordinates)

Diagram	
Properties	content: complex
	minOccurs: 0
	maxOccurs: 1
Model	dm:latitude , dm:longitude
Children	dm:latitude, dm:longitude

Instance	`<dm:geoLocation xmlns:dm="eu:faredge:faredgedm">`
	`  <dm:latitude>{1,1}</dm:latitude>`
	`  <dm:longitude>{1,1}</dm:longitude>`
	`</dm:geoLocation>`

Source	`<xs:element maxOccurs="1" minOccurs="0" name="geoLocation">`
	`  <xs:annotation>`
	`    <xs:documentation>Specifying a physical location (a pair of coordinates)</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element name="latitude" type="xs:string"/>`
	`      <xs:element name="longitude" type="xs:string"/>`
	`    </xs:sequence>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element dm:Location / dm:geoLocation / dm:latitude

Namespace	eu:faredge:faredgedm
Diagram	
Type	xs:string
Properties	content: simple
Source	`<xs:element name="latitude" type="xs:string"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element dm:Location / dm:geoLocation / dm:longitude

Namespace	eu:faredge:faredgedm
Diagram	
Type	xs:string
Properties	content: simple
Source	`<xs:element name="longitude" type="xs:string"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element dm:Location / dm:virtualLocation

Namespace	eu:faredge:faredgedm
Annotations	Specifying a virtual location (it could be the ID of a resource or subsystem)

Diagram	
Type	xs:anyURI
Properties	content: simple minOccurs: 0

Source	```xml
	<xs:element minOccurs="0" name="virtualLocation" type="xs:anyURI">
	  <xs:annotation>
	    <xs:documentation>Specifying a virtual location (it could be the ID of a resource or
	 subsystem)</xs:documentation>
	  </xs:annotation>
	</xs:element>
	``

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:EdgeGateway / dm:DataManifests`

Namespace	eu:faredge:faredgedm
Annotations	Edge Gateway Data Manifests
Diagram	
Properties	content: complex
Model	dsm:DSM* , dcm:DCM*
Children	dcm:DCM, dsm:DSM

Instance	```xml
	<dm:DataManifests xmlns:dm="eu:faredge:faredgedm" xmlns:dsm="eu:faredge:drpp:dsm" xmlns:dcm="eu:faredge:drpp:dcm">
	  <dsm:DSM id="" macAddress="">{0,unbounded}</dsm:DSM>
	  <dcm:DCM id="" macAddress="">{0,unbounded}</dcm:DCM>
	</dm:DataManifests>
	``

Source	```xml
	<xs:element name="DataManifests">
	  <xs:annotation>
	    <xs:documentation>Edge Gateway Data Manifests</xs:documentation>
	  </xs:annotation>
	  <xs:complexType>
	    <xs:sequence>
	      <xs:element maxOccurs="unbounded" ref="dsm:DSM" minOccurs="0"/>
	      <xs:element maxOccurs="unbounded" ref="dcm:DCM" minOccurs="0"/>
	    </xs:sequence>
	  </xs:complexType>
	</xs:element>
	``

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:EdgeGateway / dm:DataManipulation`

Namespace	eu:faredge:faredgedm
Annotations	Edge Gateway Data Manipulation
Diagram	
Properties	content: complex
Model	apm:APM* , am:AM*
Children	am:AM, apm:APM
Instance	```xml <dm:DataManipulation xmlns:dm="eu:faredge:faredgedm" xmlns:apm="eu:faredge:ea:processor" xmlns:am="eu:faredge:ea:or```

```
    <apm:APM id="">{0,unbounded}</apm:APM>
    <am:AM id="">{0,unbounded}</am:AM>
  </dm:DataManipulation>
```

Source	`<xs:element name="DataManipulation">`
	`  <xs:annotation>`
	`    <xs:documentation>Edge Gateway Data Manipulation</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element maxOccurs="unbounded" minOccurs="0" ref="apm:APM"/>`
	`      <xs:element maxOccurs="unbounded" minOccurs="0" ref="am:AM"/>`
	`    </xs:sequence>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:LiveDataSet`

Namespace	eu:faredge:faredgedm
Annotations	A generic type of Data Source Live measurements (physical or virtual)
Diagram	
Properties	content: complex
Used by	Elements dm:EdgeGateway, dm:FarEdgeDM
Model	dm:timestamp{0,1} , dm:observation*
Children	dm:observation, dm:timestamp

Instance	`<dm:LiveDataSet DataSourceManifestReferenceID="" mobile="false" xmlns:dm="eu:faredge:faredgedm">`
	`  <dm:timestamp>{0,1}</dm:timestamp>`
	`  <dm:observation DataKindReferenceID="" id="" name="">{0,unbounded}</dm:observation>`
	`</dm:LiveDataSet>`

Attributes	QName	Type	Fixed	Default	Use
	DataSourceManifestReferenceID	xs:anyURI			optional
		The ID of the Data Source Manifest (physical or virtual) these observations refaire to.			
	mobile	xs:boolean		false	optional
		Identifies if the Edge node is mobile or not. If it is mobile the location field within the observation entity should be provided as well.			

Source	`<xs:element name="LiveDataSet">`
	`  <xs:annotation>`
	`    <xs:documentation>A generic type of Data Source Live measurements (physical or virtual)</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>`
	`      <xs:element maxOccurs="unbounded" minOccurs="0" ref="dm:observation"/>`
	`    </xs:sequence>`
	`    <xs:attribute name="DataSourceManifestReferenceID" type="xs:anyURI">`

	``xml
	<xs:annotation>
	  <xs:documentation>The ID of the Data Source Manifest (physical or virtual) these
	 observations refaire to.</xs:documentation>
	  </xs:annotation>
	 </xs:attribute>
	 <xs:attribute default="false" name="mobile" type="xs:boolean">
	   <xs:annotation>
	     <xs:documentation>Identifies if the Edge node is mobile or not. If it is mobile the location
	 field within the observation entity should be provided as well.</xs:documentation>
	   </xs:annotation>
	 </xs:attribute>
	 </xs:complexType>
	</xs:element>
	``

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:LiveDataSet / dm:timestamp`

Namespace	eu:faredge:faredgedm
Diagram	
Type	xs:dateTime
Properties	content: simple minOccurs: 0
Source	`<xs:element minOccurs="0" name="timestamp" type="xs:dateTime"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:observation`

Namespace	eu:faredge:faredgedm
Annotations	The Node Measurement
Diagram	
Properties	content: complex
Used by	Element dm:LiveDataSet
Model	dm:timestamp{0,1} , dm:Location{0,1} , dm:value
Children	dm:Location, dm:timestamp, dm:value
Instance	`<dm:observation DataKindReferenceID="" id="" name="" xmlns:dm="eu:faredge:faredgedm">`

```
      <dm:timestamp>{0,1}</dm:timestamp>
      <dm:Location>{0,1}</dm:Location>
      <dm:value>{1,1}</dm:value>
    </dm:observation>
```

Attributes	QName	Type	Fixed	Default	Use
	DataKindReferenceID	xs:anyURI			optional
		The ID of the Data Kind this observation refaire to.			
	id	xs:anyURI			optional
	name	xs:string			optional

Source	
| | ```
<xs:element name="observation">
  <xs:annotation>
    <xs:documentation>The Node Measurement</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element form="qualified" name="timestamp" type="xs:dateTime" minOccurs="0">
        <xs:annotation>
          <xs:documentation>The timestamp indicating the instant in which a measurement was
 acquired</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element ref="dm:Location" minOccurs="0">
        <xs:annotation>
          <xs:documentation>The location at which the measurement was taken if Edge Node's mobile
 attribute is true</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="value" type="xs:anyType" minOccurs="1">
        <xs:annotation>
          <xs:documentation>Element providing the value of a measurement.</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="id" type="xs:anyURI"/>
    <xs:attribute name="name" type="xs:string"/>
    <xs:attribute name="DataKindReferenceID" type="xs:anyURI">
      <xs:annotation>
        <xs:documentation>The ID of the Data Kind this observation refaire to.</xs:documentation>
      </xs:annotation>
    </xs:attribute>
  </xs:complexType>
</xs:element>
``` |

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:observation / dm:timestamp`

Namespace	eu:faredge:faredgedm
Annotations	The timestamp indicating the instant in which a measurement was acquired
Diagram	
Type	xs:dateTime
Properties	content: simple
	minOccurs: 0
| Source | ```
<xs:element form="qualified" name="timestamp" type="xs:dateTime" minOccurs="0">
  <xs:annotation>
    <xs:documentation>The timestamp indicating the instant in which a measurement was acquired</
xs:documentation>
  </xs:annotation>
</xs:element>
``` |
| Schema location | file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd |

Element `dm:observation / dm:value`

Namespace	eu:faredge:faredgedm

Annotations	Element providing the value of a measurement.
Diagram	
Properties	minOccurs: 1

Source	`<xs:element name="value" type="xs:anyType" minOccurs="1">`
	`  <xs:annotation>`
	`    <xs:documentation>Element providing the value of a measurement.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element dm:Device

Namespace	eu:faredge:faredgedm
Annotations	Logical Device MetaData
Diagram	
Properties	content: complex
Model	

Attributes

QName	Type	Fixed	Default	Use
id	xs:anyURI			optional

Source	`<xs:element name="Device">`
	`  <xs:annotation>`
	`    <xs:documentation>Logical Device MetaData</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`    </xs:sequence>`
	`    <xs:attribute name="id" type="xs:anyURI"/>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element dm:ProcessingDevices

Namespace	eu:faredge:faredgedm
Annotations	Edge Gateway Processing Device (Edge Analytics) capabilities (metadata)
Diagram	
Properties	content: complex
Model	
Source	`<xs:element name="ProcessingDevices">` `  <xs:annotation>`

```
        <xs:documentation>Edge Gateway Processing Device (Edge Analytics) capabilities (metadata)</
xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
```

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Namespace: "eu:faredge:drpp:dk"

Schema(s)

Imported schema `DataKind.xsd`

Namespace	eu:faredge:drpp:dk	
Properties	attribute form default:	unqualified
	element form default:	qualified
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataKind.xsd	

Element(s)

Element `dt:DK`

Namespace	eu:faredge:drpp:dk
Annotations	FAR-Edge Data Kind
Diagram	
Properties	content: complex
Used by	Element dm:FarEdgeDM/dm:DataDefinitions
Model	dt:description{0,1} , dt:modelType{0,1} , dt:format{0,1} , dt:quantityKind{0,1}
Children	dt:description, dt:format, dt:modelType, dt:quantityKind

Instance	`<dt:DK id="" xmlns:dt="eu:faredge:drpp:dk">`
	`  <dt:description>{0,1}</dt:description>`
	`  <dt:modelType>{0,1}</dt:modelType>`
	`  <dt:format>{0,1}</dt:format>`
	`  <dt:quantityKind>{0,1}</dt:quantityKind>`
	`</dt:DK>`

Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional

Source	`<xs:element name="DK">`
	`  <xs:annotation>`
	`    <xs:documentation>FAR-Edge Data Kind</xs:documentation>`

```xml
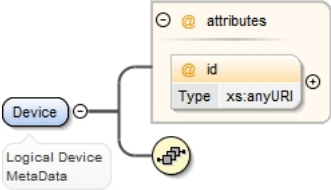        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element type="xs:string" name="description" minOccurs="0">
              <xs:annotation>
                <xs:documentation>Provides an Optional description of the Data Kind</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element type="xs:string" name="modelType" minOccurs="0">
              <xs:annotation>
                <xs:documentation>Specifies the Model type of the Data (i.e. SenML, OM, ...)</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="format" type="xs:string" minOccurs="0">
              <xs:annotation>
                <xs:documentation>Specifies the format of the Data (i.e. JSON, XML,...)</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="quantityKind" minOccurs="0" type="xs:anyURI">
              <xs:annotation>
                <xs:documentation>A QuantityKind is an abstract classifier that represents the concept of
 "kind of quantity". A QuantityKind represents the essence of a quantity without any numerical value
 or unit. (e.g. A sensor -sensor1- measures temperature: sensor1 has quantityKind temperature)</xs:documentation>
              </xs:annotation>
            </xs:element>
          </xs:sequence>
          <xs:attribute name="id" type="xs:anyURI"/>
        </xs:complexType>
      </xs:element>
```

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataKind.xsd

Element `dt:DK / dt:description`

Namespace	eu:faredge:drpp:dk
Annotations	Provides an Optional description of the Data Kind
Diagram	 description — xs:string Provides an Optional description of the Data Kind Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple minOccurs: 0

Source	`<xs:element type="xs:string" name="description" minOccurs="0">`
	`  <xs:annotation>`
	`    <xs:documentation>Provides an Optional description of the Data Kind</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataKind.xsd

Element `dt:DK / dt:modelType`

Namespace	eu:faredge:drpp:dk
Annotations	Specifies the Model type of the Data (i.e. SenML, OM, ...)
Diagram	 modelType — xs:string Specifies the Model type of the Data (i.e. SenML, OM, ...) Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple minOccurs: 0

Source	`<xs:element type="xs:string" name="modelType" minOccurs="0">`
	`  <xs:annotation>`
	`    <xs:documentation>Specifies the Model type of the Data (i.e. SenML, OM, ...)</xs:documentation>`
	`  </xs:annotation>`

	`</xs:element>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataKind.xsd

Element `dt:DK` / `dt:format`

Namespace	eu:faredge:drpp:dk
Annotations	`Specifies the format of the Data (i.e. JSON, XML,...)`
Diagram	
Type	xs:string
Properties	content: `simple` minOccurs: `0`

Source	`<xs:element name="format" type="xs:string" minOccurs="0">`
	  `<xs:annotation>`
	    `<xs:documentation>Specifies the format of the Data (i.e. JSON, XML,...)</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataKind.xsd

Element `dt:DK` / `dt:quantityKind`

Namespace	eu:faredge:drpp:dk
Annotations	`A QuantityKind is an abstract classifier that represents the concept of "kind of quantity". A QuantityKind represents the essence of a quantity without any numerical value or unit. (e.g. A sensor -sensor1- measures temperature: sensor1 has quantityKind temperature)`
Diagram	
Type	xs:anyURI
Properties	content: `simple` minOccurs: `0`
Source	`<xs:element name="quantityKind" minOccurs="0" type="xs:anyURI">` `<xs:annotation>` `<xs:documentation>A QuantityKind is an abstract classifier that represents the concept of "kind of quantity". A QuantityKind represents the essence of a quantity without any numerical value or unit. (e.g. A sensor -sensor1- measures temperature: sensor1 has quantityKind temperature)</xs:documentation>`   `</xs:annotation>` `</xs:element>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataKind.xsd

Namespace: "eu:faredge:drpp:di"

Schema(s)

Imported schema `DataInterface.xsd`

Namespace	eu:faredge:drpp:di
Properties	attribute form default: `unqualified` element form default: `qualified`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Element(s)

Element `dt:DI`

Namespace	eu:faredge:drpp:di
Annotations	FAR-Edge Data Interface Specification
Diagram	
Properties	content: complex
Used by	Element dm:FarEdgeDM/dm:DataDefinitions
Model	dt:communicationProtocol{0,1} , dt:Parameters
Children	dt:Parameters, dt:communicationProtocol

Instance	`<dt:DI id="" xmlns:dt="eu:faredge:drpp:di">`
	`  <dt:communicationProtocol>{0,1}</dt:communicationProtocol>`
	`  <dt:Parameters>{1,1}</dt:Parameters>`
	`</dt:DI>`

Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional

Source	`<xs:element name="DI">`
	`  <xs:annotation>`
	`    <xs:documentation>FAR-Edge Data Interface Specification</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element type="xs:string" name="communicationProtocol" minOccurs="0">`
	`        <xs:annotation>`
	`          <xs:documentation>Specifies the protocol Type (i.e. MQTT, JMS, OPCUA, HTTP ...)</xs:documentation>`
	`        </xs:annotation>`
	`      </xs:element>`
	`      <xs:element ref="dt:Parameters"/>`
	`    </xs:sequence>`
	`    <xs:attribute name="id" type="xs:anyURI"/>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Element `dt:DI / dt:communicationProtocol`

Namespace	eu:faredge:drpp:di
Annotations	Specifies the protocol Type (i.e. MQTT, JMS, OPCUA, HTTP ...)
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Source	`<xs:element type="xs:string" name="communicationProtocol" minOccurs="0">`
	`  <xs:annotation>`
	`    <xs:documentation>Specifies the protocol Type (i.e. MQTT, JMS, OPCUA, HTTP ...)</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Element `dt:Parameters`

Namespace	eu:faredge:drpp:di
Diagram	Analytics Processor parameter
Properties	content: complex
Used by	Element dt:DI
Model	dt:Parameter*
Children	dt:Parameter

Instance	`<dt:Parameters xmlns:dt="eu:faredge:drpp:di">`
	`  <dt:Parameter name="">{0,unbounded}</dt:Parameter>`
	`</dt:Parameters>`

Source	`<xs:element name="Parameters">`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element maxOccurs="unbounded" minOccurs="0" ref="dt:Parameter"/>`
	`    </xs:sequence>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Element `dt:Parameter`

Namespace	eu:faredge:drpp:di
Annotations	Analytics Processor parameter
Diagram	
Properties	content: complex
Used by	Element dt:Parameters
Model	dt:description , dt:dataType , dt:defaultValue{0,1}
Children	dt:dataType, dt:defaultValue, dt:description

Instance	`<dt:Parameter name="" xmlns:dt="eu:faredge:drpp:di">`
	`  <dt:description>{1,1}</dt:description>`
	`  <dt:dataType>{1,1}</dt:dataType>`
	`  <dt:defaultValue>{0,1}</dt:defaultValue>`
	`</dt:Parameter>`

Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			optional

Source	`<xs:element name="Parameter">`
	`  <xs:annotation>`
	`    <xs:documentation>Analytics Processor parameter</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element name="description" type="xs:anyType" minOccurs="1">`
	`        <xs:annotation>`
	`          <xs:documentation>Element describing the value of an attribute.</xs:documentation>`
	`        </xs:annotation>`

```
      </xs:element>
      <xs:element minOccurs="1" name="dataType" type="xs:string">
        <xs:annotation>
          <xs:documentation>A classification of data (i.e. short, int, float, boolean, ...)</
xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="defaultValue" type="xs:anyType" minOccurs="0">
        <xs:annotation>
          <xs:documentation>A predefined default value for an attribute.</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="name" type="xs:string"/>
  </xs:complexType>
</xs:element>
```

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Element `dt:Parameter / dt:description`

Namespace	eu:faredge:drpp:di
Annotations	Element describing the value of an attribute.
Diagram	
Properties	minOccurs: 1

Source	`<xs:element name="description" type="xs:anyType" minOccurs="1">`
	`  <xs:annotation>`
	`    <xs:documentation>Element describing the value of an attribute.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Element `dt:Parameter / dt:dataType`

Namespace	eu:faredge:drpp:di
Annotations	A classification of data (i.e. short, int, float, boolean, ...)
Diagram	
Type	xs:string
Properties	content: simple
	minOccurs: 1

Source	`<xs:element minOccurs="1" name="dataType" type="xs:string">`
	`  <xs:annotation>`
	`    <xs:documentation>A classification of data (i.e. short, int, float, boolean, ...)</`
	`xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Element `dt:Parameter / dt:defaultValue`

Namespace	eu:faredge:drpp:di

Annotations	A predefined default value for an attribute.
Diagram	
Properties	minOccurs: 0

Source	`<xs:element name="defaultValue" type="xs:anyType" minOccurs="0">`
	  `<xs:annotation>`
	    `<xs:documentation>A predefined default value for an attribute.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Namespace: "eu:faredge:drpp:dsd"

Schema(s)

Imported schema `DataSourceDefinition.xsd`

Namespace	eu:faredge:drpp:dsd	
Properties	attribute form default:	unqualified
	element form default:	qualified
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceDefinition.xsd	

Element(s)

Element `dsd:DSD`

Namespace	eu:faredge:drpp:dsd				
Annotations	FAR-Edge Data Source Definition				
Diagram					
Properties	content: complex				
Used by	Element dm:FarEdgeDM/dm:DataDefinitions				
Model	dsd:DataInterfaceReferenceID , dsd:DataKindReferenceIDs				
Children	dsd:DataInterfaceReferenceID, dsd:DataKindReferenceIDs				

Instance	`<dsd:DSD id="" xmlns:dsd="eu:faredge:drpp:dsd">`
	  `<dsd:DataInterfaceReferenceID>{1,1}</dsd:DataInterfaceReferenceID>`
	  `<dsd:DataKindReferenceIDs>{1,1}</dsd:DataKindReferenceIDs>`
	`</dsd:DSD>`				

Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
		Uniquely identifies the Data Source as a URI			

Source	```xml
	<xs:element name="DSD">
	  <xs:annotation>
	    <xs:documentation>FAR-Edge Data Source Definition</xs:documentation>
	  </xs:annotation>
	  <xs:complexType>
	    <xs:sequence>
	      <xs:element name="DataInterfaceReferenceID" type="xs:anyURI">
	        <xs:annotation>
	          <xs:documentation>Points to an existing FAR-EDGE Data Interface definition</xs:documentation>
	        </xs:annotation>
	      </xs:element>
	      <xs:element name="DataKindReferenceIDs">
	        <xs:complexType>
	          <xs:sequence>
	            <xs:element name="DataKindReferenceID" type="xs:anyURI" maxOccurs="unbounded">
	              <xs:annotation>
	                <xs:documentation>Points to an existing FAR-EDGE Data Kind definition</xs:documentation>
	              </xs:annotation>
	            </xs:element>
	          </xs:sequence>
	        </xs:complexType>
	      </xs:element>
	    </xs:sequence>
	    <xs:attribute name="id" type="xs:anyURI">
	      <xs:annotation>
	        <xs:documentation>Uniquely identifies the Data Source as a URI</xs:documentation>
	      </xs:annotation>
	    </xs:attribute>
	  </xs:complexType>
	</xs:element>
	``

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceDefinition.xsd

Element `dsd:DSD / dsd:DataInterfaceReferenceID`

Namespace	eu:faredge:drpp:dsd
Annotations	Points to an existing FAR-EDGE Data Interface definition
Diagram	
Type	xs:anyURI
Properties	content: simple

Source	```xml
	<xs:element name="DataInterfaceReferenceID" type="xs:anyURI">
	  <xs:annotation>
	    <xs:documentation>Points to an existing FAR-EDGE Data Interface definition</xs:documentation>
	  </xs:annotation>
	</xs:element>
	``

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceDefinition.xsd

Element `dsd:DSD / dsd:DataKindReferenceIDs`

Namespace	eu:faredge:drpp:dsd
Diagram	
Properties	content: complex
Model	dsd:DataKindReferenceID+
Children	dsd:DataKindReferenceID

Instance	```xml
	<dsd:DataKindReferenceIDs xmlns:dsd="eu:faredge:drpp:dsd">
	  <dsd:DataKindReferenceID>{1,unbounded}</dsd:DataKindReferenceID>
	</dsd:DataKindReferenceIDs>
	``

Source	```xml
	<xs:element name="DataKindReferenceIDs">
	  <xs:complexType>
	    <xs:sequence>
	      <xs:element name="DataKindReferenceID" type="xs:anyURI" maxOccurs="unbounded">
	``

```
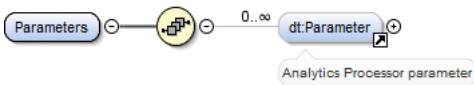        <xs:annotation>
          <xs:documentation>Points to an existing FAR-EDGE Data Kind definition</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

| Schema location | file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceDefinition.xsd |

Element `dsd:DSD` / `dsd:DataKindReferenceIDs` / `dsd:DataKindReferenceID`

Namespace	eu:faredge:drpp:dsd
Annotations	Points to an existing FAR-EDGE Data Kind definition
Diagram	
Type	xs:anyURI
Properties	content: simple
	maxOccurs: unbounded

Source	`<xs:element name="DataKindReferenceID" type="xs:anyURI" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`    <xs:documentation>Points to an existing FAR-EDGE Data Kind definition</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceDefinition.xsd

Namespace: "eu:faredge:drpp:dcd"

Schema(s)

Imported schema `DataChannelDescriptor.xsd`

Namespace	eu:faredge:drpp:dcd
Properties	attribute form default: unqualified
	element form default: qualified
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataChannelDescriptor.xsd

Element(s)

Element `dcd:DCD`

Namespace	eu:faredge:drpp:dcd
Annotations	FAR-Edge Data Channel Descriptor
Diagram	

Properties	content: complex				
Used by	Element dm:FarEdgeDM/dm:DataManipulation				
Model	dcd:validFrom{0,1} , dcd:validTo{0,1} , dcd:DataSourceManifestReferenceID , dcd:DataConsumerManifestReferenceID				
Children	dcd:DataConsumerManifestReferenceID, dcd:DataSourceManifestReferenceID, dcd:validFrom, dcd:validTo				

Instance	`<dcd:DCD id="" xmlns:dcd="eu:faredge:drpp:dcd">`
	  `<dcd:validFrom>{0,1}</dcd:validFrom>`
	  `<dcd:validTo>{0,1}</dcd:validTo>`
	  `<dcd:DataSourceManifestReferenceID>{1,1}</dcd:DataSourceManifestReferenceID>`
	  `<dcd:DataConsumerManifestReferenceID>{1,1}</dcd:DataConsumerManifestReferenceID>`
	`</dcd:DCD>`				

Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	id	xs:anyURI			optional
		Uniquely identifies the Data Channel as a URI			

Source	`<xs:element name="DCD">`
	  `<xs:annotation>`
	    `<xs:documentation>`FAR-Edge Data Channel Descriptor`</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:complexType>`
	    `<xs:sequence>`
	      `<xs:element type="xs:dateTime" name="validFrom" minOccurs="0"/>`
	      `<xs:element type="xs:dateTime" name="validTo" minOccurs="0"/>`
	      `<xs:element name="DataSourceManifestReferenceID" type="xs:anyURI">`
	        `<xs:annotation>`
	          `<xs:documentation>`The ID of the Data Source Manifest the Data Channel Descriptor points to.`</xs:documentation>`
	        `</xs:annotation>`
	      `</xs:element>`
	      `<xs:element name="DataConsumerManifestReferenceID" nillable="false" type="xs:anyURI">`
	        `<xs:annotation>`
	          `<xs:documentation>`The ID of the Data Consummer Manifest the Data Channel Descriptor points to.`</xs:documentation>`
	        `</xs:annotation>`
	      `</xs:element>`
	    `</xs:sequence>`
	    `<xs:attribute name="id" type="xs:anyURI">`
	      `<xs:annotation>`
	        `<xs:documentation>`Uniquely identifies the Data Channel as a URI`</xs:documentation>`
	      `</xs:annotation>`
	    `</xs:attribute>`
	  `</xs:complexType>`
	`</xs:element>`				

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataChannelDescriptor.xsd				

Element `dcd:DCD` / `dcd:validFrom`

Namespace	eu:faredge:drpp:dcd
Diagram	
Type	xs:dateTime
Properties	content: simple minOccurs: 0
Source	`<xs:element type="xs:dateTime" name="validFrom" minOccurs="0"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataChannelDescriptor.xsd

Element `dcd:DCD` / `dcd:validTo`

Namespace	eu:faredge:drpp:dcd
Diagram	

Type	xs:dateTime	
Properties	content:	simple
	minOccurs:	0
Source	`<xs:element type="xs:dateTime" name="validTo" minOccurs="0"/>`	
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataChannelDescriptor.xsd	

Element `dcd:DCD` / `dcd:DataSourceManifestReferenceID`

Namespace	eu:faredge:drpp:dcd
Annotations	The ID of the Data Source Manifest the Data Channel Descriptor points to.
Diagram	DataSourceManifestReferenceID ⊝ — xs:anyURI The ID of the Data Source Manifest the Data Channel Descriptor points to. Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).
Type	xs:anyURI
Properties	content: simple

Source	`<xs:element name="DataSourceManifestReferenceID" type="xs:anyURI">`
	`  <xs:annotation>`
	`    <xs:documentation>The ID of the Data Source Manifest the Data Channel Descriptor points to.</`
	`xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataChannelDescriptor.xsd

Element `dcd:DCD` / `dcd:DataConsumerManifestReferenceID`

Namespace	eu:faredge:drpp:dcd	
Annotations	The ID of the Data Consumer Manifest the Data Channel Descriptor points to.	
Diagram	DataConsumerManifestReferenceID ⊝ — xs:anyURI The ID of the Data Consumer Manifest the Data Channel Descriptor points to. Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).	
Type	xs:anyURI	
Properties	content:	simple
	nillable:	false

Source	`<xs:element name="DataConsumerManifestReferenceID" nillable="false" type="xs:anyURI">`
	`  <xs:annotation>`
	`    <xs:documentation>The ID of the Data Consummer Manifest the Data Channel Descriptor points to.</`
	`xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`	

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataChannelDescriptor.xsd	

Namespace: "eu:faredge:drpp:dcm"

Schema(s)

Imported schema `DataConsumerManifest.xsd`

Namespace	eu:faredge:drpp:dcm	
Properties	attribute form default:	unqualified
	element form default:	qualified
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataConsumerManifest.xsd	

Element(s)

Element `dcm:DCM`

Namespace	eu:faredge:drpp:dcm
Annotations	FAR-Edge Data Consumer Manifest
Diagram	
Properties	content: complex
Used by	Element dm:EdgeGateway/dm:DataManifests
Model	dcm:DataSourceDefinitionReferenceIDs
Children	dcm:DataSourceDefinitionReferenceIDs

Instance	`<dcm:DCM id="" macAddress="" xmlns:dcm="eu:faredge:drpp:dcm">`
	  `<dcm:DataSourceDefinitionReferenceIDs>{1,1}</dcm:DataSourceDefinitionReferenceIDs>`
	`</dcm:DCM>`

Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
		Uniquely identifies the Data Consumer Manifest			
	macAddress	xs:string			optional

Source	`<xs:element name="DCM">`
	  `<xs:annotation>`
	    `<xs:documentation>FAR-Edge Data Consumer Manifest</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:complexType>`
	    `<xs:sequence>`
	      `<xs:element name="DataSourceDefinitionReferenceIDs">`
	        `<xs:annotation>`
	          `<xs:documentation>Provides a list of pointers to Data Source Definitions that are`
	`compatible and of interest.</xs:documentation>`
	        `</xs:annotation>`
	        `<xs:complexType>`
	          `<xs:sequence>`
	            `<xs:element name="DataSourceDefinitionReferenceID" type="xs:anyURI"`
	`maxOccurs="unbounded">`
	              `<xs:annotation>`
	                `<xs:documentation>Points to an existing FAR-EDGE Data Source Definition`
	`definition.</xs:documentation>`
	              `</xs:annotation>`
	            `</xs:element>`
	          `</xs:sequence>`
	        `</xs:complexType>`
	      `</xs:element>`
	    `</xs:sequence>`
	    `<xs:attribute name="id" type="xs:anyURI">`
	      `<xs:annotation>`
	        `<xs:documentation>Uniquely identifies the Data Consumer Manifest</xs:documentation>`
	      `</xs:annotation>`
	    `</xs:attribute>`
	    `<xs:attribute name="macAddress" type="xs:string"/>`
	  `</xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataConsumerManifest.xsd

Element `dcm:DCM` / `dcm:DataSourceDefinitionReferenceIDs`

Namespace	eu:faredge:drpp:dcm

Annotations	Provides a list of pointers to Data Source Definitions that are compatible and of interest.
Diagram	
Properties	content: complex
Model	dcm:DataSourceDefinitionReferenceID+
Children	dcm:DataSourceDefinitionReferenceID

Instance	`<dcm:DataSourceDefinitionReferenceIDs xmlns:dcm="eu:faredge:drpp:dcm">`
	  `<dcm:DataSourceDefinitionReferenceID>`{1,unbounded}`</dcm:DataSourceDefinitionReferenceID>`
	`</dcm:DataSourceDefinitionReferenceIDs>`

Source	`<xs:element name="DataSourceDefinitionReferenceIDs">`
	  `<xs:annotation>`
	    `<xs:documentation>`Provides a list of pointers to Data Source Definitions that are compatible and of interest.`</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:complexType>`
	    `<xs:sequence>`
	      `<xs:element name="DataSourceDefinitionReferenceID" type="xs:anyURI" maxOccurs="unbounded">`
	        `<xs:annotation>`
	          `<xs:documentation>`Points to an existing FAR-EDGE Data Source Definition definition.`</xs:documentation>`
	        `</xs:annotation>`
	      `</xs:element>`
	    `</xs:sequence>`
	  `</xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataConsumerManifest.xsd

Element `dcm:DCM` / `dcm:DataSourceDefinitionReferenceIDs` / `dcm:DataSourceDefinitionReferenceID`

Namespace	eu:faredge:drpp:dcm
Annotations	Points to an existing FAR-EDGE Data Source Definition definition.
Diagram	
Type	xs:anyURI
Properties	content: simple maxOccurs: unbounded

Source	`<xs:element name="DataSourceDefinitionReferenceID" type="xs:anyURI" maxOccurs="unbounded">`
	  `<xs:annotation>`
	    `<xs:documentation>`Points to an existing FAR-EDGE Data Source Definition definition.`</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataConsumerManifest.xsd

Namespace: "eu:faredge:drpp:dsm"

Schema(s)

Imported schema `DataSourceManifest.xsd`

Namespace	eu:faredge:drpp:dsm
Properties	attribute form default: unqualified element form default: qualified
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd

Element(s)

Element `dsm:DSM`

Namespace	eu:faredge:drpp:dsm
Annotations	`FAR-Edge Data Source Manifest`
Diagram	
Properties	content: `complex`
Used by	Element dm:EdgeGateway/dm:DataManifests
Model	dsm:DataSourceDefinitionReferenceID , dsm:DataSourceDefinitionInterfaceParameters
Children	dsm:DataSourceDefinitionInterfaceParameters, dsm:DataSourceDefinitionReferenceID

Instance	`<dsm:DSM id="" macAddress="" xmlns:dsm="eu:faredge:drpp:dsm">`
	`  <dsm:DataSourceDefinitionReferenceID>{1,1}</dsm:DataSourceDefinitionReferenceID>`
	`  <dsm:DataSourceDefinitionInterfaceParameters>{1,1}</dsm:DataSourceDefinitionInterfaceParameters>`
	`</dsm:DSM>`

Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
		`Uniquely identifies the Data Source Manifest as a URI`			
	macAddress	xs:string			optional

Source	`<xs:element name="DSM">`
	`  <xs:annotation>`
	`    <xs:documentation>FAR-Edge Data Source Manifest</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element name="DataSourceDefinitionReferenceID" type="xs:anyURI">`
	`        <xs:annotation>`
	`          <xs:documentation>Points to an existing Data Source Definition.</xs:documentation>`
	`        </xs:annotation>`
	`      </xs:element>`
	`      <xs:element ref="dsm:DataSourceDefinitionInterfaceParameters"/>`
	`    </xs:sequence>`
	`    <xs:attribute name="id" type="xs:anyURI">`
	`      <xs:annotation>`
	`        <xs:documentation>Uniquely identifies the Data Source Manifest as a URI</xs:documentation>`
	`      </xs:annotation>`
	`    </xs:attribute>`
	`    <xs:attribute name="macAddress" type="xs:string"/>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd

Element `dsm:DSM / dsm:DataSourceDefinitionReferenceID`

Namespace	eu:faredge:drpp:dsm
Annotations	`Points to an existing Data Source Definition.`
Diagram	

Type	xs:anyURI
Properties	content: simple

Source	`<xs:element name="DataSourceDefinitionReferenceID" type="xs:anyURI">`
	`  <xs:annotation>`
	`    <xs:documentation>Points to an existing Data Source Definition.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd
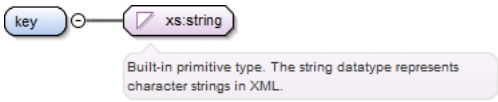
Element `dsm:DataSourceDefinitionInterfaceParameters`

Namespace	eu:faredge:drpp:dsm
Annotations	Data Source Definition Interface configuration parameters
Diagram	 Data Source Definition Interface configuration parameters
Properties	content: complex
Used by	Element dsm:DSM
Model	dsm:Parameter+
Children	dsm:Parameter

Instance	`<dsm:DataSourceDefinitionInterfaceParameters xmlns:dsm="eu:faredge:drpp:dsm">`
	`  <dsm:Parameter>{1,unbounded}</dsm:Parameter>`
	`</dsm:DataSourceDefinitionInterfaceParameters>`

Source	`<xs:element name="DataSourceDefinitionInterfaceParameters">`
	`  <xs:annotation>`
	`    <xs:documentation>Data Source Definition Interface configuration parameters</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element maxOccurs="unbounded" ref="dsm:Parameter"/>`
	`    </xs:sequence>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd
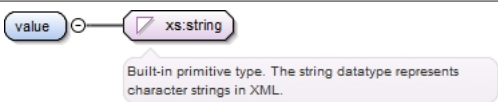
Element `dsm:Parameter`

Namespace	eu:faredge:drpp:dsm
Diagram	
Properties	content: complex
Used by	Element dsm:DataSourceDefinitionInterfaceParameters
Model	dsm:key , dsm:value
Children	dsm:key, dsm:value

Instance	`<dsm:Parameter xmlns:dsm="eu:faredge:drpp:dsm">`
	`  <dsm:key>{1,1}</dsm:key>`
	`  <dsm:value>{1,1}</dsm:value>`
	`</dsm:Parameter>`

Source	`<xs:element name="Parameter">`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element type="xs:string" name="key"/>`
	`      <xs:element type="xs:string" name="value"/>`
	`    </xs:sequence>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd

Element `dsm:Parameter / dsm:key`

Namespace	eu:faredge:drpp:dsm
Diagram	key ⊖— xs:string Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple
Source	`<xs:element type="xs:string" name="key"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd

Element `dsm:Parameter / dsm:value`

Namespace	eu:faredge:drpp:dsm
Diagram	value ⊖— xs:string Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple
Source	`<xs:element type="xs:string" name="value"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd

Namespace: "eu:faredge:ea:apd"

Schema(s)

Imported schema `AnalyticsProcessorDefinition.xsd`

Namespace	eu:faredge:ea:apd	
Properties	attribute form default:	unqualified
	element form default:	qualified
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd	

Element(s)

Element `apd:APD`

Namespace	eu:faredge:ea:apd
Annotations	FAR-Edge Analytics Processor Definition

Diagram	

Properties	content: complex

Used by	Element dm:FarEdgeDM/dm:DataDefinitions

Model	apd:processorType , apd:version{0,1} , apd:copyright{0,1} , apd:description{0,1} , apd:processorLocation , apd:AdditionalInformation* , apd:Parameters{0,1}

Children	apd:AdditionalInformation, apd:Parameters, apd:copyright, apd:description, apd:processorLocation, apd:processorType, apd:version

Instance	`<apd:APD id="" name="" xmlns:apd="eu:faredge:ea:apd">`
	`  <apd:processorType>{1,1}</apd:processorType>`
	`  <apd:version>{0,1}</apd:version>`
	`  <apd:copyright>{0,1}</apd:copyright>`
	`  <apd:description>{0,1}</apd:description>`
	`  <apd:processorLocation>{1,1}</apd:processorLocation>`
	`  <apd:AdditionalInformation>{0,unbounded}</apd:AdditionalInformation>`
	`  <apd:Parameters>{0,1}</apd:Parameters>`
	`</apd:APD>`

Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
		The Processor ID			
	name	xs:string			optional
		The processor name			

Source	`<xs:element name="APD">`
	`  <xs:annotation>`
	`    <xs:documentation>FAR-Edge Analytics Processor Definition</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element minOccurs="1" maxOccurs="1" name="processorType" type="xs:string">`
	`        <xs:annotation>`
	`          <xs:documentation>The type of the Processor</xs:documentation>`
	`        </xs:annotation>`
	`      </xs:element>`
	`      <xs:element name="version" type="xs:string" minOccurs="0">`
	`        <xs:annotation>`
	`          <xs:documentation>The version of the processor type</xs:documentation>`
	`        </xs:annotation>`

```
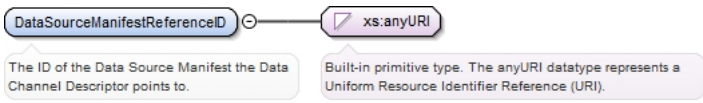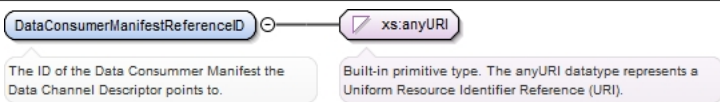                </xs:element>
                <xs:element name="copyright" type="xs:string" maxOccurs="1" minOccurs="0">
                  <xs:annotation>
                    <xs:documentation>Processor Owner</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element minOccurs="0" maxOccurs="1" name="description" type="xs:string">
                  <xs:annotation>
                    <xs:documentation>Deacription of the Processor</xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element minOccurs="1" maxOccurs="1" name="processorLocation" type="xs:string">
                  <xs:annotation>
                    <xs:documentation>The physical or relative location of the processor library</
xs:documentation>
                  </xs:annotation>
                </xs:element>
                <xs:element maxOccurs="unbounded" minOccurs="0" ref="apd:AdditionalInformation"/>
                <xs:element minOccurs="0" maxOccurs="1" ref="apd:Parameters"/>
              </xs:sequence>
              <xs:attribute name="id" type="xs:anyURI" use="optional">
                <xs:annotation>
                  <xs:documentation>The Processor ID</xs:documentation>
                </xs:annotation>
              </xs:attribute>
              <xs:attribute name="name" type="xs:string">
                <xs:annotation>
                  <xs:documentation>The processor name</xs:documentation>
                </xs:annotation>
              </xs:attribute>
          </xs:complexType>
        </xs:element>
```

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Element `apd:APD / apd:processorType`

Namespace	eu:faredge:ea:apd
Annotations	The type of the Processor
Diagram	The type of the Processor / Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple minOccurs: 1 maxOccurs: 1

Source	`<xs:element minOccurs="1" maxOccurs="1" name="processorType" type="xs:string">`
	`  <xs:annotation>`
	`    <xs:documentation>The type of the Processor</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Element `apd:APD / apd:version`

Namespace	eu:faredge:ea:apd
Annotations	The version of the processor type
Diagram	The version of the processor type / Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple minOccurs: 0
Source	`<xs:element name="version" type="xs:string" minOccurs="0">` `  <xs:annotation>`

	`<xs:documentation>`The version of the processor type`</xs:documentation>`
	   `</xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Element `apd:APD` / `apd:copyright`

Namespace	eu:faredge:ea:apd
Annotations	`Processor Owner`
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0 maxOccurs: 1

Source	`<xs:element name="copyright" type="xs:string" maxOccurs="1" minOccurs="0">`
	  `<xs:annotation>`
	    `<xs:documentation>`Processor Owner`</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Element `apd:APD` / `apd:description`

Namespace	eu:faredge:ea:apd
Annotations	`Deacription of the Processor`
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0 maxOccurs: 1

Source	`<xs:element minOccurs="0" maxOccurs="1" name="description" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>`Deacription of the Processor`</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Element `apd:APD` / `apd:processorLocation`

Namespace	eu:faredge:ea:apd
Annotations	`The physical or relative location of the processor library`
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 1 maxOccurs: 1
Source	`<xs:element minOccurs="1" maxOccurs="1" name="processorLocation" type="xs:string">`

```
    <xs:annotation>
      <xs:documentation>The physical or relative location of the processor library</xs:documentation>
    </xs:annotation>
</xs:element>
```

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Element `apd:AdditionalInformation`

Namespace	eu:faredge:ea:apd
Annotations	Optional auxiliary field that may contain any additional information
Diagram	
Used by	Element apd:APD

Source	`<xs:element name="AdditionalInformation" type="xs:anyType">`
	`  <xs:annotation>`
	`    <xs:documentation>Optional auxiliary field that may contain any additional information</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Element `apd:Parameters`

Namespace	eu:faredge:ea:apd
Annotations	Analytics Processor list of required parameters
Diagram	
Properties	content: complex
Used by	Element apd:APD
Model	apd:Parameter*
Children	apd:Parameter

Instance	`<apd:Parameters xmlns:apd="eu:faredge:ea:apd">`
	`  <apd:Parameter name="">{0,unbounded}</apd:Parameter>`
	`</apd:Parameters>`

Source	`<xs:element name="Parameters">`
	`  <xs:annotation>`
	`    <xs:documentation>Analytics Processor list of required parameters</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element maxOccurs="unbounded" minOccurs="0" ref="apd:Parameter"/>`
	`    </xs:sequence>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Element `apd:Parameter`

Namespace	eu:faredge:ea:apd

Annotations	Analytics Processor parameter
Diagram	
Properties	content: complex
Used by	Element apd:Parameters
Model	apd:description , apd:dataType , apd:defaultValue{0,1}
Children	apd:dataType, apd:defaultValue, apd:description

Instance	```xml
	<apd:Parameter name="" xmlns:apd="eu:faredge:ea:apd">
	  <apd:description>{1,1}</apd:description>
	  <apd:dataType>{1,1}</apd:dataType>
	  <apd:defaultValue>{0,1}</apd:defaultValue>
	</apd:Parameter>
	``

Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			optional

| Source | ```xml
<xs:element name="Parameter">
  <xs:annotation>
    <xs:documentation>Analytics Processor parameter</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="description" type="xs:anyType" minOccurs="1">
        <xs:annotation>
          <xs:documentation>Element describing the value of an attribute.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element minOccurs="1" name="dataType" type="xs:string">
        <xs:annotation>
          <xs:documentation>A classification of data (i.e. short, int, float, boolean, ...)</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="defaultValue" type="xs:anyType" minOccurs="0">
        <xs:annotation>
          <xs:documentation>A predefined default value for an attribute.</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="name" type="xs:string"/>
  </xs:complexType>
</xs:element>
``` |
|---|---|
| Schema location | file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd |

Element apd:Parameter / apd:description

Namespace	eu:faredge:ea:apd
Annotations	Element describing the value of an attribute.

Diagram	
Properties	minOccurs: 1

Source	`<xs:element name="description" type="xs:anyType" minOccurs="1">`
	  `<xs:annotation>`
	    `<xs:documentation>Element describing the value of an attribute.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Element apd:Parameter / apd:dataType

Namespace	eu:faredge:ea:apd
Annotations	A classification of data (i.e. short, int, float, boolean, ...)
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 1

Source	`<xs:element minOccurs="1" name="dataType" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>A classification of data (i.e. short, int, float, boolean, ...)</`
	`xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Element apd:Parameter / apd:defaultValue

Namespace	eu:faredge:ea:apd
Annotations	A predefined default value for an attribute.
Diagram	
Properties	minOccurs: 0

Source	`<xs:element name="defaultValue" type="xs:anyType" minOccurs="0">`
	  `<xs:annotation>`
	    `<xs:documentation>A predefined default value for an attribute.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Namespace: "eu:faredge:ea:orchestrator"

Schema(s)

Imported schema `AnalyticsManifest.xsd`

Namespace	eu:faredge:ea:orchestrator	
Properties	attribute form default: `unqualified`	
	element form default: `qualified`	
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsManifest.xsd	

Element(s)

Element `am:AM`

Namespace	eu:faredge:ea:orchestrator				
Annotations	FAR-Edge Edge Analytics Orchestrator Manifest				
Diagram					
Properties	content: `complex`				
Used by	Elements dm:EdgeGateway/dm:DataManipulation, dm:FarEdgeDM/dm:DataManipulation				
Model	apm:APM+				
Children	apm:APM				

Instance	`<am:AM id="" xmlns:am="eu:faredge:ea:orchestrator" xmlns:apm="eu:faredge:ea:processor">`
	  `<apm:APM id="">`{1,unbounded}`</apm:APM>`
	`</am:AM>`				

Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	id	xs:anyURI			optional

Source	`<xs:element name="AM">`
	  `<xs:annotation>`
	    `<xs:documentation>`FAR-Edge Edge Analytics Orchestrator Manifest`</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:complexType>`
	    `<xs:sequence>`
	      `<xs:element maxOccurs="unbounded" ref="apm:APM"/>`
	    `</xs:sequence>`
	    `<xs:attribute name="id" type="xs:anyURI"/>`
	  `</xs:complexType>`
	`</xs:element>`				

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsManifest.xsd				

Namespace: "eu:faredge:ea:processor"

Schema(s)

Imported schema `AnalyticsProcessorManifest.xsd`

Namespace	eu:faredge:ea:processor	
Properties	attribute form default: `unqualified`	
	element form default: `qualified`	

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Element(s)

Element `apm:APM`

Namespace	eu:faredge:ea:processor
Annotations	FAR-Edge Analytics Processor Manifest
Diagram	
Properties	content: complex
Used by	Elements am:AM, dm:EdgeGateway/dm:DataManipulation, dm:FarEdgeDM/dm:DataManipulation
Model	apm:AnalyticsProcessorDefinitionReferenceID , apm:DataSink , apm:DataSources
Children	apm:AnalyticsProcessorDefinitionReferenceID, apm:DataSink, apm:DataSources

Instance	`<apm:APM id="" xmlns:apm="eu:faredge:ea:processor">`
	`  <apm:AnalyticsProcessorDefinitionReferenceID>{1,1}</apm:AnalyticsProcessorDefinitionReferenceID>`
	`  <apm:DataSink>{1,1}</apm:DataSink>`
	`  <apm:DataSources>{1,1}</apm:DataSources>`
	`</apm:APM>`

Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional

Source	`<xs:element name="APM">`
	`  <xs:annotation>`
	`    <xs:documentation>FAR-Edge Analytics Processor Manifest</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element name="AnalyticsProcessorDefinitionReferenceID" type="xs:anyURI">`
	`        <xs:annotation>`
	`          <xs:documentation>The Reference ID of the Analytics Processor Definition(APD) this APM is using.</xs:documentation>`
	`        </xs:annotation>`
	`      </xs:element>`
	`      <xs:element ref="apm:DataSink"/>`
	`      <xs:element ref="apm:DataSources"/>`
	`    </xs:sequence>`
	`    <xs:attribute name="id" type="xs:anyURI"/>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Element `apm:APM / apm:AnalyticsProcessorDefinitionReferenceID`

Namespace	eu:faredge:ea:processor
Annotations	The Reference ID of the Analytics Processor Definition(APD) this APM is using.
Diagram	
Type	xs:anyURI

Properties	content: simple

Source	`<xs:element name="AnalyticsProcessorDefinitionReferenceID" type="xs:anyURI">`
	`  <xs:annotation>`
	`    <xs:documentation>The Reference ID of the Analytics Processor Definition(APD) this APM is using.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Element `apm:DataSink`

Namespace	eu:faredge:ea:processor
Annotations	Data Sink provides the description of the data produced from the processor with the help of a Data Source Manifest which it references.
Diagram	 DataSink — Data Sink provides the description of the data produced from the processor with the help of a Data Source Manifest... — DataSourceManifestReferenceID — The Reference ID of the Data Source Manifest which describes the output of this APM.
Properties	content: complex
Used by	Element apm:APM
Model	apm:DataSourceManifestReferenceID
Children	apm:DataSourceManifestReferenceID

Instance	`<apm:DataSink xmlns:apm="eu:faredge:ea:processor">`
	`  <apm:DataSourceManifestReferenceID>{1,1}</apm:DataSourceManifestReferenceID>`
	`</apm:DataSink>`

Source	`<xs:element name="DataSink">`
	`  <xs:annotation>`
	`    <xs:documentation>Data Sink provides the description of the data produced from the processor with the help of a Data Source Manifest which it references.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element name="DataSourceManifestReferenceID" type="xs:anyURI">`
	`        <xs:annotation>`
	`          <xs:documentation>The Reference ID of the Data Source Manifest which describes the output of this APM.</xs:documentation>`
	`        </xs:annotation>`
	`      </xs:element>`
	`    </xs:sequence>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Element `apm:DataSink / apm:DataSourceManifestReferenceID`

Namespace	eu:faredge:ea:processor
Annotations	The Reference ID of the Data Source Manifest which describes the output of this APM.
Diagram	 DataSourceManifestReferenceID — xs:anyURI — The Reference ID of the Data Source Manifest which describes the output of this APM. — Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).
Type	xs:anyURI
Properties	content: simple

Source	`<xs:element name="DataSourceManifestReferenceID" type="xs:anyURI">`
	`  <xs:annotation>`
	`    <xs:documentation>The Reference ID of the Data Source Manifest which describes the output of this APM.</xs:documentation>`
	`  </xs:annotation>`

```
        </xs:element>
```

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Element `apm:DataSources`

Namespace	eu:faredge:ea:processor
Annotations	Edge Analytics Processor Data Sources
Diagram	
Properties	content: complex
Used by	Element apm:APM
Model	apm:DataSource+
Children	apm:DataSource

Instance	`<apm:DataSources xmlns:apm="eu:faredge:ea:processor">`
	  `<apm:DataSource>`{1,unbounded}`</apm:DataSource>`
	`</apm:DataSources>`

Source	`<xs:element name="DataSources">`
	  `<xs:annotation>`
	    `<xs:documentation>`Edge Analytics Processor Data Sources`</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:complexType>`
	    `<xs:sequence>`
	      `<xs:element maxOccurs="unbounded" ref="apm:DataSource"/>`
	    `</xs:sequence>`
	  `</xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Element `apm:DataSource`

Namespace	eu:faredge:ea:processor
Annotations	Edge Analytics Processor Data Source and Configuration parameters.
Diagram	
Properties	content: complex
Used by	Element apm:DataSources
Model	apm:DataSourceManifestReferenceID , apm:Parameters
Children	apm:DataSourceManifestReferenceID, apm:Parameters

Instance	`<apm:DataSource xmlns:apm="eu:faredge:ea:processor">`
	  `<apm:DataSourceManifestReferenceID>`{1,1}`</apm:DataSourceManifestReferenceID>`
	  `<apm:Parameters>`{1,1}`</apm:Parameters>`
	`</apm:DataSource>`

Source	`<xs:element name="DataSource">`
	  `<xs:annotation>`
	    `<xs:documentation>`Edge Analytics Processor Data Source and Configuration parameters.`</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:complexType>`
	    `<xs:sequence>`
	      `<xs:element name="DataSourceManifestReferenceID" type="xs:anyURI">`
	        `<xs:annotation>`
	          `<xs:documentation>`The Reference ID of the Data Source Manifest which identifyes a data source of the APM.`</xs:documentation>`

```
                </xs:annotation>
            </xs:element>
            <xs:element ref="apm:Parameters"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
```

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Element `apm:DataSource / apm:DataSourceManifestReferenceID`

Namespace	eu:faredge:ea:processor
Annotations	The Reference ID of the Data Source Manifest which identifyes a data source of the APM.
Diagram	The Reference ID of the Data Source Manifest which identifyes a data source of the APM. Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).
Type	xs:anyURI
Properties	content: simple

Source	`<xs:element name="DataSourceManifestReferenceID" type="xs:anyURI">`
	`  <xs:annotation>`
	`    <xs:documentation>`The Reference ID of the Data Source Manifest which identifyes a data source of the APM.`</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Element `apm:Parameters`

Namespace	eu:faredge:ea:processor
Diagram	Analytics Processor Manifest parameter
Properties	content: complex
Used by	Element apm:DataSource
Model	apm:Parameter+
Children	apm:Parameter

Instance	`<apm:Parameters xmlns:apm="eu:faredge:ea:processor">`
	`  <apm:Parameter>`{1,unbounded}`</apm:Parameter>`
	`</apm:Parameters>`

Source	`<xs:element name="Parameters">`
	`  <xs:complexType>`
	`    <xs:sequence>`
	`      <xs:element maxOccurs="unbounded" ref="apm:Parameter"/>`
	`    </xs:sequence>`
	`  </xs:complexType>`
	`</xs:element>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Element `apm:Parameter`

Namespace	eu:faredge:ea:processor
Annotations	Analytics Processor Manifest parameter
Diagram	Analytics Processor Manifest parameter key value
Properties	content: complex

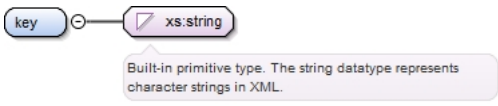| Used by	Element	apm:Parameters
Model	ALL(apm:key apm:value)	
Children	apm:key, apm:value	

Instance	`<apm:Parameter xmlns:apm="eu:faredge:ea:processor">`
	  `<apm:key>`{1,1}`</apm:key>`
	  `<apm:value>`{1,1}`</apm:value>`
	`</apm:Parameter>`	

Source	`<xs:element name="Parameter">`
	  `<xs:annotation>`
	    `<xs:documentation>`Analytics Processor Manifest parameter`</xs:documentation>`
	  `</xs:annotation>`
	  `<xs:complexType>`
	    `<xs:all>`
	      `<xs:element name="key" type="xs:string"/>`
	      `<xs:element name="value" type="xs:string"/>`
	    `</xs:all>`
	  `</xs:complexType>`
	`</xs:element>`	

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd	

Element `apm:Parameter / apm:key`

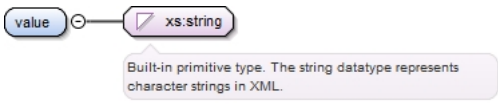| Namespace	eu:faredge:ea:processor
Diagram	 Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple
Source	`<xs:element name="key" type="xs:string"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Element `apm:Parameter / apm:value`

Namespace	eu:faredge:ea:processor
Diagram	 Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple
Source	`<xs:element name="value" type="xs:string"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Namespace: ""

Attribute(s)

Attribute `dm:FarEdgeDM / dm:FDEM / dm:SDRMs / dm:SDRM / @id`

Namespace	No namespace
Type	xs:anyURI
Properties	content: simple
Used by	Element dm:FarEdgeDM/dm:FDEM/dm:SDRMs/dm:SDRM
Source	`<xs:attribute name="id" type="xs:anyURI"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute `dsd:DSD / @id`

Namespace	No namespace
Annotations	Uniquely identifies the Data Source as a URI
Type	xs:anyURI
Properties	content: simple
Used by	Element dsd:DSD

Source	`<xs:attribute name="id" type="xs:anyURI">`
	  `<xs:annotation>`
	    `<xs:documentation>Uniquely identifies the Data Source as a URI</xs:documentation>`
	  `</xs:annotation>`
	`</xs:attribute>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceDefinition.xsd

Attribute `dt:Parameter / @name`

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element dt:Parameter
Source	`<xs:attribute name="name" type="xs:string"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Attribute `dt:DI / @id`

Namespace	No namespace
Type	xs:anyURI
Properties	content: simple
Used by	Element dt:DI
Source	`<xs:attribute name="id" type="xs:anyURI"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Attribute `dt:DK / @id`

Namespace	No namespace
Type	xs:anyURI
Properties	content: simple
Used by	Element dt:DK
Source	`<xs:attribute name="id" type="xs:anyURI"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataKind.xsd

Attribute `apd:Parameter / @name`

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element apd:Parameter
Source	`<xs:attribute name="name" type="xs:string"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Attribute `apd:APD / @id`

Namespace	No namespace
Annotations	The Processor ID
Type	xs:anyURI
Properties	use: optional
Used by	Element apd:APD

Source	`<xs:attribute name="id" type="xs:anyURI" use="optional">`
	`  <xs:annotation>`
	`    <xs:documentation>The Processor ID</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Attribute `apd:APD / @name`

Namespace	No namespace
Annotations	The processor name
Type	xs:string
Properties	content: simple
Used by	Element apd:APD

Source	`<xs:attribute name="name" type="xs:string">`
	`  <xs:annotation>`
	`    <xs:documentation>The processor name</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorDefinition.xsd

Attribute `dcd:DCD / @id`

Namespace	No namespace
Annotations	Uniquely identifies the Data Channel as a URI
Type	xs:anyURI
Properties	content: simple
Used by	Element dcd:DCD

Source	`<xs:attribute name="id" type="xs:anyURI">`
	`  <xs:annotation>`
	`    <xs:documentation>Uniquely identifies the Data Channel as a URI</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataChannelDescriptor.xsd

Attribute `apm:APM / @id`

Namespace	No namespace
Type	xs:anyURI
Properties	content: simple
Used by	Element apm:APM
Source	`<xs:attribute name="id" type="xs:anyURI"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsProcessorManifest.xsd

Attribute `am:AM / @id`

Namespace	No namespace

Type	xs:anyURI
Properties	content: simple
Used by	Element am:AM
Source	`<xs:attribute name="id" type="xs:anyURI"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/AnalyticsManifest.xsd

Attribute `dsm:DSM` / `@id`

Namespace	No namespace
Annotations	Uniquely identifies the Data Source Manifest as a URI
Type	xs:anyURI
Properties	content: simple
Used by	Element dsm:DSM

Source	`<xs:attribute name="id" type="xs:anyURI">`
	  `<xs:annotation>`
	    `<xs:documentation>`Uniquely identifies the Data Source Manifest as a URI`</xs:documentation>`
	  `</xs:annotation>`
	`</xs:attribute>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd

Attribute `dsm:DSM` / `@macAddress`

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element dsm:DSM
Source	`<xs:attribute name="macAddress" type="xs:string"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd

Attribute `dcm:DCM` / `@id`

Namespace	No namespace
Annotations	Uniquely identifies the Data Consumer Manifest
Type	xs:anyURI
Properties	content: simple
Used by	Element dcm:DCM

Source	`<xs:attribute name="id" type="xs:anyURI">`
	  `<xs:annotation>`
	    `<xs:documentation>`Uniquely identifies the Data Consumer Manifest`</xs:documentation>`
	  `</xs:annotation>`
	`</xs:attribute>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataConsumerManifest.xsd

Attribute `dcm:DCM` / `@macAddress`

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element dcm:DCM
Source	`<xs:attribute name="macAddress" type="xs:string"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataConsumerManifest.xsd

Attribute `dm:observation / @id`

Namespace	No namespace	
Type	xs:anyURI	
Properties	content:	simple
Used by	Element	dm:observation
Source	`<xs:attribute name="id" type="xs:anyURI"/>`	
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd	

Attribute `dm:observation / @name`

Namespace	No namespace	
Type	xs:string	
Properties	content:	simple
Used by	Element	dm:observation
Source	`<xs:attribute name="name" type="xs:string"/>`	
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd	

Attribute `dm:observation / @DataKindReferenceID`

Namespace	No namespace	
Annotations	The ID of the Data Kind this observation refaire to.	
Type	xs:anyURI	
Properties	content:	simple
Used by	Element	dm:observation

Source	`<xs:attribute name="DataKindReferenceID" type="xs:anyURI">`
	  `<xs:annotation>`
	    `<xs:documentation>The ID of the Data Kind this observation refaire to.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:attribute>`	

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd	

Attribute `dm:LiveDataSet / @DataSourceManifestReferenceID`

Namespace	No namespace	
Annotations	The ID of the Data Source Manifest (physical or virtual) these observations refaire to.	
Type	xs:anyURI	
Properties	content:	simple
Used by	Element	dm:LiveDataSet

Source	`<xs:attribute name="DataSourceManifestReferenceID" type="xs:anyURI">`
	  `<xs:annotation>`
	    `<xs:documentation>The ID of the Data Source Manifest (physical or virtual) these observations`
	 `refaire to.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:attribute>`	

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd	

Attribute `dm:LiveDataSet / @mobile`

Namespace	No namespace
Annotations	Identifies if the Edge node is mobile or not. If it is mobile the location field within the observation entity should be provided as well.

Type	xs:boolean
Properties	default: false
Used by	Element dm:LiveDataSet

Source	`<xs:attribute default="false" name="mobile" type="xs:boolean">`
	  `<xs:annotation>`
	    `<xs:documentation>`Identifies if the Edge node is mobile or not. If it is mobile the location field within the observation entity should be provided as well.`</xs:documentation>`
	  `</xs:annotation>`
	`</xs:attribute>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute `dm:EdgeGateway / @id`

Namespace	No namespace
Type	xs:anyURI
Properties	content: simple
Used by	Element dm:EdgeGateway
Source	`<xs:attribute name="id" type="xs:anyURI"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute `dm:EdgeGateway / @name`

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element dm:EdgeGateway
Source	`<xs:attribute name="name" type="xs:string"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute `dm:EdgeGateway / @namespace`

Namespace	No namespace
Annotations	For scope hierarchy.
Type	xs:string
Properties	content: simple
Used by	Element dm:EdgeGateway

Source	`<xs:attribute name="namespace" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>`For scope hierarchy.`</xs:documentation>`
	  `</xs:annotation>`
	`</xs:attribute>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute `dm:EdgeGateway / @macAddress`

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element dm:EdgeGateway
Source	`<xs:attribute name="macAddress" type="xs:string"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute `dm:FarEdgeDM / @id`

Namespace	No namespace
Type	xs:anyURI
Properties	content: simple
Used by	Element dm:FarEdgeDM
Source	`<xs:attribute name="id" type="xs:anyURI"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute `dm:FarEdgeDM / @name`

Namespace	No namespace
Type	xs:string
Properties	content: simple
Used by	Element dm:FarEdgeDM
Source	`<xs:attribute name="name" type="xs:string"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute `dm:FarEdgeDM / @namespace`

Namespace	No namespace
Annotations	For scope hierarchy.
Type	xs:string
Properties	content: simple
Used by	Element dm:FarEdgeDM

Source	`<xs:attribute name="namespace" type="xs:string">`
	  `<xs:annotation>`
	    `<xs:documentation>For scope hierarchy.</xs:documentation>`
	  `</xs:annotation>`
	`</xs:attribute>`

Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute `dm:Device / @id`

Namespace	No namespace
Type	xs:anyURI
Properties	content: simple
Used by	Element dm:Device
Source	`<xs:attribute name="id" type="xs:anyURI"/>`
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd