

Schema documentation for DigitalModels.xsd

january 10, 2018

Table of Contents

Resource hierarchy:	2
Namespace: "eu:faredge:faredgedm"	3
Schema(s)	3
Main schema DigitalModels.xsd	3
Element(s)	3
Element dm:FarEdgeDM	3
Element dm:FarEdgeDM / dm:description	4
Element dm:additionalInformation	5
Element dm:EdgeGateway	5
Element dm:EdgeGateway / dm:description	7
Element dm:Location	7
Element dm:Location / dm:geoLocation	8
Element dm:Location / dm:geoLocation / dm:latitude	8
Element dm:Location / dm:geoLocation / dm:longitude	9
Element dm:Location / dm:virtualLocation	9
Element dm:EdgeGateway / dm:MetaData	9
Element dm:Device	10
Element dm:DataDefinitions	11
Element dm:Connections	11
Element dm:ProcessingDevices	12
Element dm:EdgeGateway / dm:LiveData	13
Element dm:DeviceLD	13
Element dm:DeviceLD / dm:timestamp	14
Element dm:observation	14
Element dm:observation / dm:timestamp	16
Element dm:observation / dm:defaultValue	16
Element dm:observation / dm:value	17
Namespace: "eu:faredge:drpp:dk"	17
Schema(s)	17
Imported schema DataKind.xsd	17
Element(s)	17
Element dt:DK	17
Element dt:DK / dt:dataKindDescription	19
Element dt:DK / dt:modelType	19
Element dt:DK / dt:format	19
Element dt:DK / dt:quantityKind	19
Namespace: "eu:faredge:drpp:di"	20
Schema(s)	20
Imported schema DataInterface.xsd	20
Element(s)	20
Element dt:DI	20
Element dt:DI / dt:dataInterfaceSpecification	21
Element dt:DI / dt:dataInterfaceSpecification / dt:communicationProtocol	22
Element dt:DI / dt:dataInterfaceSpecification / dt:Parameters	22
Element dt:DI / dt:dataInterfaceSpecification / dt:Parameters / dt:parameter	22
Element dt:DI / dt:dataInterfaceSpecification / dt:Parameters / dt:parameter / dt:description	23
Element dt:DI / dt:dataInterfaceSpecification / dt:Parameters / dt:parameter / dt:name	23
Element dt:DI / dt:dataInterfaceSpecification / dt:Parameters / dt:parameter / dt:defaultValue	23
Namespace: "eu:faredge:drpp:dsd"	24
Schema(s)	24
Imported schema DataSourceDefinition.xsd	24
Element(s)	24
Element dsd:DSD	24
Namespace: "eu:faredge:drpp:dcd"	25
Schema(s)	25
Imported schema DataChannelDescriptor.xsd	25
Element(s)	25
Element dcd:DCD	25
Element dcd:DCD / dcd:expirationDateTime	26
Element dcd:DCD / dcd:validFrom	26
Element dcd:DCD / dcd:dataSourceManifestID	26












Element dcd:DCD / dcd:dataConsumerManifestID	26
Namespace: "eu:faredge:drpp:dcm"	27
Schema(s)	27
Imported schema DataConsumerManifest.xsd	27
Element(s)	27
Element dcm:DCM	27
Element dcm:DCM / dcm:dataSourceDefinitionsIDs	28
Namespace: "eu:faredge:drpp:dsm"	28
Schema(s)	28
Imported schema DataSourceManifest.xsd	28
Element(s)	28
Element dsm:DSM	28
Element dsm:DSM / dsm:dataSourceDefinitionID	29
Element dsm:DSM / dsm:dataSourceDefinitionParameters	30
Element dsm:DSM / dsm:dataSourceDefinitionParameters / dsm:parameters	30
Element dsm:DSM / dsm:dataSourceDefinitionParameters / dsm:parameters / dsm:key	30
Element dsm:DSM / dsm:dataSourceDefinitionParameters / dsm:parameters / dsm:value	31
Namespace: "eu:faredge:ea:processormd"	31
Schema(s)	31
Imported schema EaProcessorMD.xsd	31
Element(s)	31
Element eapmd:EaProcessorMD	31
Element eapmd:EaProcessorMD / eapmd:processorType	33
Element eapmd:EaProcessorMD / eapmd:version	33
Element eapmd:EaProcessorMD / eapmd:copyright	34
Element eapmd:EaProcessorMD / eapmd:description	34
Element eapmd:EaProcessorMD / eapmd:processorLocation	34
Element eapmd:additionalInformation	35
Element eapmd:ProcessorConfigs	35
Element eapmd:ProcessorConfigs / eapmd:attribute	36
Element eapmd:ProcessorConfigs / eapmd:attribute / eapmd:DefaultValue	37
Element eapmd:ProcessorConfigs / eapmd:attribute / eapmd:Value	37
Namespace: ""	37
Attribute(s)	37
Attribute dsm:DSM / @id	37
Attribute dcm:DCM / @id	38
Attribute dm:Device / @id	38
Attribute dm:Device / @namespace	38
Attribute dt:DI / @id	38
Attribute dt:DK / @id	38
Attribute dsd:DSD / @id	39
Attribute dm:DataDefinitions / @id	39
Attribute dcd:DCD / @id	39
Attribute dm:Connections / @id	39
Attribute dm:Connections / @namespace	40
Attribute eapmd:ProcessorConfigs / eapmd:attribute / @name	40
Attribute eapmd:ProcessorConfigs / eapmd:attribute / @unit	40
Attribute eapmd:ProcessorConfigs / eapmd:attribute / @dataType	40
Attribute eapmd:EaProcessorMD / @id	40
Attribute eapmd:EaProcessorMD / @name	41
Attribute dm:ProcessingDevices / @namespace	41
Attribute dm:observation / @id	41
Attribute dm:observation / @name	41
Attribute dm:observation / @quantityKind	41
Attribute dm:observation / @dataType	42
Attribute dm:DeviceLD / @id	42
Attribute dm:DeviceLD / @name	42
Attribute dm:DeviceLD / @mobile	43
Attribute dm:EdgeGateway / @id	43
Attribute dm:EdgeGateway / @name	43
Attribute dm:EdgeGateway / @namespace	43
Attribute dm:FarEdgeDM / @id	43
Attribute dm:FarEdgeDM / @name	44
Attribute dm:FarEdgeDM / @namespace	44

Resource hierarchy:

Legend:  Import,  Include,  Redefine,  Cycle detected

DigitalModels.xsd

 DataKind.xsd

-  DataInterface.xsd
-  DataSourceDefinition.xsd
-  DataKind.xsd
-  DataInterface.xsd
-  DataChannelDescriptor.xsd
-  DataConsumerManifest.xsd
-  DataSourceManifest.xsd
-  DataSourceDefinition.xsd
-  DataKind.xsd
-  DataInterface.xsd
-  EaProcessorMD.xsd

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:EdgeGateway*				
Children	dm:EdgeGateway, dm:additionalInformation, dm:description				
Instance	<pre><dm:FarEdgeDM id=" " name=" " namespace=" " xmlns:dm="eu:faredge:faredgedm"> <dm:description>{0,1}</dm:description> <dm:additionalInformation>{0,unbounded}</dm:additionalInformation> <dm:EdgeGateway id=" " name=" " namespace=" ">{0,unbounded}</dm:EdgeGateway> </dm:FarEdgeDM></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
	name	xs:string			optional
	namespace	xs:string			optional
	For scope hierarchy.				
Source	<pre><xs:element name="FarEdgeDM"> <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 ref="dm:EdgeGateway" 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></pre>				
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	<pre><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></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

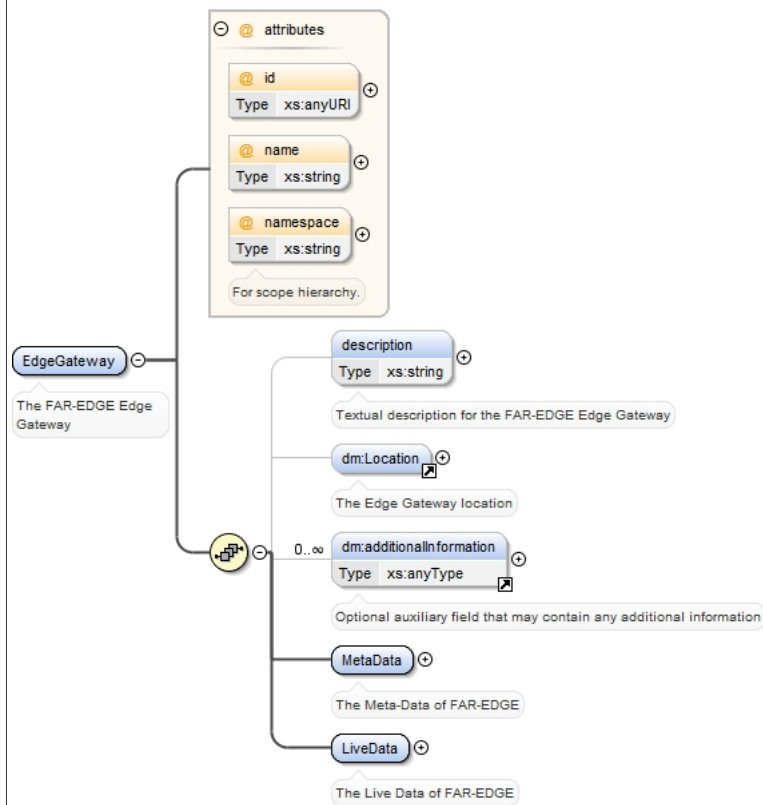
Element dm:additionalInformation

Namespace	eu:faredge:faredgedm
Annotations	Optional auxiliary field that may contain any additional information
Diagram	
Used by	Elements dm:EdgeGateway, dm:FarEdgeDM
Source	<pre><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></pre>
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:MetaData , dm:LiveData	
Children	dm:LiveData, dm:Location, dm:MetaData, dm:additionalInformation, dm:description	

Instance

```
<dm:EdgeGateway id="" name="" namespace="" xmlns:dm="eu:fareedge:fareddedm">
  <dm:description>{0,1}</dm:description>
  <dm:Location>{0,1}</dm:Location>
  <dm:additionalInformation>{0,unbounded}</dm:additionalInformation>
  <dm:MetaData>{1,1}</dm:MetaData>
  <dm:LiveData>{1,1}</dm:LiveData>
</dm:EdgeGateway>
```

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="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="MetaData">
        <xs:annotation>
          <xs:documentation>The Meta-Data of FAR-EDGE</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

	<pre> <xs:sequence> <xs:element ref="dm:Device"/> <xs:element ref="dm:DataDefinitions"/> <xs:element ref="dm:Connections"/> <xs:element ref="dm:ProcessingDevices"/> </xs:sequence> </xs:complexType> </xs:element> <xs:element name="LiveData"> <xs:annotation> <xs:documentation>The Live Data of FAR-EDGE</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="dm:DeviceLD" maxOccurs="unbounded" minOccurs="0"/> </xs:sequence> </xs:complexType> </xs:element> </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> </pre>
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	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				
Source	<pre> <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> </pre>				
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	<table> <tr> <td>content:</td><td>complex</td></tr> </table>	content:	complex
content:	complex		
Used by	Elements dm:EdgeGateway , dm:observation		
Model	dm:geoLocation {0,1} dm:virtualLocation {0,1}		
Children	dm:geoLocation , dm:virtualLocation		

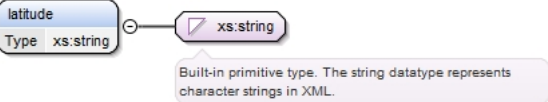
Instance	<pre><dm:Location xmlns:dm="eu:faredge:faredgedm"> <dm:geoLocation>{0,1}</dm:geoLocation> <dm:virtualLocation>{0,1}</dm:virtualLocation> </dm:Location></pre>
Source	<pre><xs:element name="Location"> <xs:annotation> <xs:documentation>Indicating the location at which something took place</xs:documentation> </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></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element dm:Location / dm:geoLocation

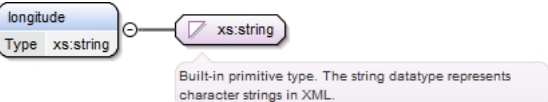
Namespace	eu:faredge:faredgedm						
Annotations	Specifying a physical location (a pair of coordinates)						
Diagram							
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	1
content:	complex						
minOccurs:	0						
maxOccurs:	1						
Model	dm:latitude , dm:longitude						
Children	dm:latitude, dm:longitude						
Instance	<pre><dm:geoLocation xmlns:dm="eu:faredge:faredgedm"> <dm:latitude>{1,1}</dm:latitude> <dm:longitude>{1,1}</dm:longitude> </dm:geoLocation></pre>						
Source	<pre><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></pre>						
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

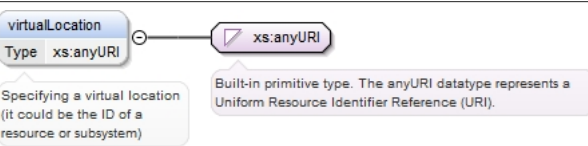
Namespace	eu:faredge:faredgedm
-----------	----------------------

Diagram	 <p>Diagram showing the <code>latitude</code> element (Type <code>xs:string</code>) connected to the <code>xs:string</code> primitive type. A callout box states: "Built-in primitive type. The string datatype represents character strings in XML."</p>
Type	<code>xs:string</code>
Properties	content: simple
Source	<code><xs:element name="latitude" type="xs:string"/></code>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

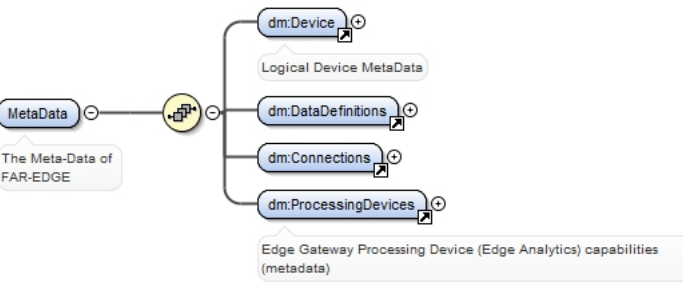
Element `dm:Location` / `dm:geoLocation` / `dm:longitude`

Namespace	eu:faredge:faredgedm
Diagram	 <p>Diagram showing the <code>longitude</code> element (Type <code>xs:string</code>) connected to the <code>xs:string</code> primitive type. A callout box states: "Built-in primitive type. The string datatype represents character strings in XML."</p>
Type	<code>xs:string</code>
Properties	content: simple
Source	<code><xs:element name="longitude" type="xs:string"/></code>
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	 <p>Diagram showing the <code>virtualLocation</code> element (Type <code>xs:anyURI</code>) connected to the <code>xs:anyURI</code> primitive type. Callout boxes state: "Specifying a virtual location (it could be the ID of a resource or subsystem)" and "Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI)."</p>
Type	<code>xs:anyURI</code>
Properties	content: simple minOccurs: 0
Source	<pre><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></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element `dm:EdgeGateway` / `dm:MetaData`

Namespace	eu:faredge:faredgedm
Annotations	The Meta-Data of FAR-EDGE
Diagram	 <p>Diagram showing the <code>MetaData</code> element (The Meta-Data of FAR-EDGE) connected to a complex content model. The content model includes: <code>dm:Device</code> (Logical Device MetaData), <code>dm:DataDefinitions</code>, <code>dm:Connections</code>, and <code>dm:ProcessingDevices</code> (Edge Gateway Processing Device (Edge Analytics) capabilities (metadata)).</p>
Properties	content: complex

Model	dm:Device , dm:DataDefinitions , dm:Connections , dm:ProcessingDevices
Children	dm:Connections, dm:DataDefinitions, dm:Device, dm:ProcessingDevices
Instance	<pre><dm:MetaData xmlns:dm="eu:faredge:faredgedm"> <dm:Device id="" namespace="">{1,1}</dm:Device> <dm:DataDefinitions id="">{1,1}</dm:DataDefinitions> <dm:Connections id="" namespace="">{1,1}</dm:Connections> <dm:ProcessingDevices namespace="">{1,1}</dm:ProcessingDevices> </dm:MetaData></pre>
Source	<pre><xs:element name="MetaData"> <xs:annotation> <xs:documentation>The Meta-Data of FAR-EDGE</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="dm:Device"/> <xs:element ref="dm:DataDefinitions"/> <xs:element ref="dm:Connections"/> <xs:element ref="dm:ProcessingDevices"/> </xs:sequence> </xs:complexType> </xs:element></pre>
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			
Used by	Element	dm:EdgeGateway/dm:MetaData			
Model	dsm:DSM* , dcm:DCM*				
Children	dcm:DCM, dsm:DSM				
Instance	<pre><dm:Device id="" namespace="" xmlns:dm="eu:faredge:faredgedm" xmlns:dsm="eu:faredge:drpp:dsm" xmlns:dcm="eu:faredge:dcm"> <dsm:DSM id="">{0,unbounded}</dsm:DSM> <dcm:DCM id="">{0,unbounded}</dcm:DCM> </dm:Device></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
	namespace	xs:string			optional
	For scope hierarchy.				
Source	<pre><xs:element name="Device"> <xs:annotation> <xs:documentation>Logical Device MetaData</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:attribute name="id" type="xs:anyURI"/> <xs:attribute name="namespace" type="xs:string"/> </xs:complexType></xs:element></pre>				

	<pre> <xs:annotation> <xs:documentation>For scope hierarchy.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element dm:DataDefinitions

Namespace	eu:faredge:faredgedm				
Diagram					
Properties	content:	complex			
Used by	Element	dm:EdgeGateway/dm:MetaData			
Model	dsd:DSD* , dt:DI* , dt:DK*				
Children	dsd:DSD, dt:DI, dt:DK				
Instance	<pre><dm:DataDefinitions id=" " xmlns:dm="eu:faredge:faredgedm" xmlns:dsd="eu:faredge:drpp:dsd" xmlns:di="eu:faredge:drpp:di" xmlns:dt="eu:faredge:drpp:dt"> <dsd:DSD id=" ">{0,unbounded}</dsd:DSD> <di:DI id=" ">{0,unbounded}</di:DI> <dt:DK id=" ">{0,unbounded}</dt:DK> </dm:DataDefinitions></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
Source	<pre><xs:element name="DataDefinitions"> <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:sequence> <xs:attribute name="id" type="xs:anyURI" /> </xs:complexType> </xs:element></pre>				
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd				

Element dm:Connections

Namespace	eu:faredge:faredgedm				
Diagram					

Properties	content: complex				
Used by	Element dm:EdgeGateway/dm:MetaData				
Model	dcd:DCD*				
Children	dcd:DCD				
Instance	<code><dm:Connections id="" namespace="" xmlns:dm="eu:faredge:faredgedm" xmlns:dcd="eu:faredge:drpp:dcd"> <dcd:DCD id="">{0,unbounded}</dcd:DCD> </dm:Connections></code>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
	namespace	xs:string			optional
	For scope hierarchy.				
Source	<code><xs:element name="Connections"> <xs:complexType> <xs:sequence> <xs:element maxOccurs="unbounded" minOccurs="0" ref="dcd:DCD"/> </xs:sequence> <xs:attribute name="id" type="xs:anyURI"/> <xs:attribute name="namespace" type="xs:string"> <xs:annotation> <xs:documentation>For scope hierarchy.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element></code>				
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			
Used by	Element	dm:EdgeGateway/dm:MetaData			
Model	eapmd:EaProcessorMD*				
Children	eapmd:EaProcessorMD				
Instance	<pre><dm:ProcessingDevices namespace=" " xmlns:dm="eu:faredge:faredgedm" xmlns:eapmd="eu:faredge:ea:processormd"> <eapmd:EaProcessorMD id=" " name=" ">{0,unbounded}</eapmd:EaProcessorMD> </dm:ProcessingDevices></pre>				
Attributes	QName	Type	Fixed	Default	Use
	namespace	xs:string			optional
	For scope hierarchy.				
Source	<pre><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:element maxOccurs="unbounded" minOccurs="0" ref="eapmd:EaProcessorMD"/> </xs:sequence> <xs:attribute name="namespace" type="xs:string"> <xs:annotation> <xs:documentation>For scope hierarchy.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element></pre>				

	<pre> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element **dm:EdgeGateway** / **dm:LiveData**

Namespace	eu:faredge:faredgedm
Annotations	The Live Data of FAR-EDGE
Diagram	
Properties	content: complex
Model	dm:DeviceLD*
Children	dm:DeviceLD
Instance	<pre> <dm:LiveData xmlns:dm="eu:faredge:faredgedm"> <dm:DeviceLD id=" " mobile="false" name=" ">{0,unbounded}</dm:DeviceLD> </dm:LiveData> </pre>
Source	<pre> <xs:element name="LiveData"> <xs:annotation> <xs:documentation>The Live Data of FAR-EDGE</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="dm:DeviceLD" maxOccurs="unbounded" minOccurs="0" /> </xs:sequence> </xs:complexType> </xs:element> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element **dm:DeviceLD**

Namespace	eu:faredge:faredgedm
Annotations	Device Live Data
Diagram	
Properties	content: complex
Used by	Element dm:EdgeGateway/dm:LiveData
Model	dm:timestamp{0,1} , dm:observation*

Children	dm:observation, dm:timestamp				
Instance	<pre><dm:DeviceLD id="" mobile="false" name="" xmlns:dm="eu:faredge:faredgedm"> <dm:timestamp>{0,1}</dm:timestamp> <dm:observation dataType="" id="" name="" quantityKind="">{0,unbounded}</dm:observation> </dm:DeviceLD></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
		The ID of the device (physical or virtual) these observations point to.			
	mobile	xs:boolean		false	optional
		Identifies if the Edge node is mobile or not			
	name	xs:string			optional
		The Name of the Edge Node these measurements point to.			
Source	<pre><xs:element name="DeviceLD"> <xs:annotation> <xs:documentation>Device Live Data</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="id" type="xs:anyURI"> <xs:annotation> <xs:documentation>The ID of the device (physical or virtual) these observations point to.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="name" type="xs:string"> <xs:annotation> <xs:documentation>The Name of the Edge Node these measurements point 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</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element></pre>				
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd				

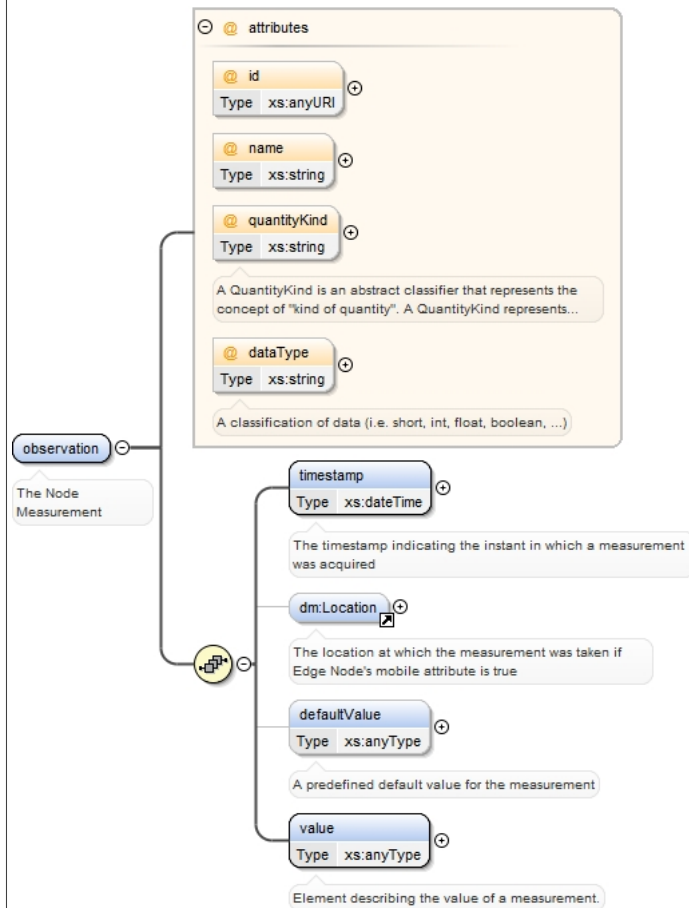
Element dm:DeviceLD / dm:timestamp

Namespace	eu:faredge:faredgedm		
Diagram	<div><div><div>timestamp</div><div>Type xs:dateTime</div></div><div><div>xs:dateTime</div><div>Built-in primitive type. The dateTime datatype represents a specific instant of time.</div></div></div>		
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:DeviceLD
Model	dm:timestamp , dm:Location{0,1} , dm:defaultValue{0,1} , dm:value	
Children	dm:Location, dm:defaultValue, dm:timestamp, dm:value	

Instance

```
<dm:observation dataType="" id="" name="" quantityKind="" xmlns:dm="eu:faredge:faredgedm">
  <dm:timestamp>{1,1}</dm:timestamp>
  <dm:Location>{0,1}</dm:Location>
  <dm:defaultValue>{0,1}</dm:defaultValue>
  <dm:value>{1,1}</dm:value>
</dm:observation>
```

Attributes	QName	Type	Fixed	Default	Use
	dataType	xs:string			optional
		A classification of data (i.e. short, int, float, boolean, ...)			
	id	xs:anyURI			optional
	name	xs:string			optional
	quantityKind	xs:string			optional
		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)			

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">
        <xs:annotation>
          <xs:documentation>The timestamp indicating the instant in which a measurement was acquired</xs:documentation>
        </xs:annotation>
      </xs:element>
```

	<pre> <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 maxOccurs="1" name="defaultValue" type="xs:anyType" minOccurs="0"> <xs:annotation> <xs:documentation>A predefined default value for the measurement</xs:documentation> </xs:annotation> </xs:element> <xs:element name="value" type="xs:anyType" minOccurs="1"> <xs:annotation> <xs:documentation>Element describing 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="quantityKind" type="xs:string"> <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:annotation> </xs:attribute> <xs:attribute name="dataType" type="xs:string"> <xs:annotation> <xs:documentation>A classification of data (i.e. short, int, float, boolean, ...)</ </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>
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	<p>The diagram shows a box labeled 'timestamp' with 'Type xs:dateTime' below it. A callout box points to the 'xs:dateTime' type, stating: 'Built-in primitive type. The dateTime datatype represents a specific instant of time.'</p>
Type	xs:dateTime
Properties	content: simple
Source	<pre> <xs:element form="qualified" name="timestamp" type="xs:dateTime"> <xs:annotation> <xs:documentation>The timestamp indicating the instant in which a measurement was acquired</ </xs:annotation> </xs:element> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Element **dm:observation** / **dm:defaultValue**

Namespace	eu:faredge:faredgedm
Annotations	A predefined default value for the measurement

Diagram	
Properties	minOccurs: 0 maxOccurs: 1
Source	<pre><xs:element maxOccurs="1" name="defaultValue" type="xs:anyType" minOccurs="0"> <xs:annotation> <xs:documentation>A predefined default value for the measurement</xs:documentation> </xs:annotation> </xs:element></pre>
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 describing the value of a measurement.
Diagram	
Properties	minOccurs: 1
Source	<pre><xs:element name="value" type="xs:anyType" minOccurs="1"> <xs:annotation> <xs:documentation>Element describing the value of a measurement.</xs:documentation> </xs:annotation> </xs:element></pre>
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	<p>The diagram illustrates the structure of the DK (Data Kind) element. It is a container for several child elements: dataKindDescription, modelType, format, and quantityKind. The DK element also has an optional attribute id. The descriptions for the child elements are as follows:</p> <ul style="list-style-type: none">dataKindDescription: Provides an Optional description of the Data KindmodelType: Specifies the Model type of the Data (i.e. SenML, OM, ...)format: Specifies the format of the Data (i.e. JSON, XML,...)quantityKind: A QuantityKind is an abstract classifier that represents the concept of "kind of quantity". A QuantityKind represents...				
Properties	content:	complex			
Used by	Elements	dm:DataDefinitions, dsd:DSD			
Model	dt:dataKindDescription{0,1} , dt:modelType{0,1} , dt:format{0,1} , dt:quantityKind{0,1}				
Children	dt:dataKindDescription, dt:format, dt:modelType, dt:quantityKind				
Instance	<pre><dt:DK id=" " xmlns:dt="eu:fareedge:drpp:dk"> <dt:dataKindDescription>{0,1}</dt:dataKindDescription> <dt:modelType>{0,1}</dt:modelType> <dt:format>{0,1}</dt:format> <dt:quantityKind>{0,1}</dt:quantityKind> </dt:DK></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
Source	<pre><xs:element name="DK"> <xs:annotation> <xs:documentation>FAR-Edge Data Kind</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element type="xs:string" name="dataKindDescription" 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></pre>				
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataKind.xsd				

Element dt:DK / dt:dataKindDescription

Namespace	eu:faredge:drpp:dk
Annotations	Provides an Optional description of the Data Kind
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0
Source	<pre><xs:element type="xs:string" name="dataKindDescription" minOccurs="0"> <xs:annotation> <xs:documentation>Provides an Optional description of the Data Kind</xs:documentation> </xs:annotation> </xs:element></pre>
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	
Type	xs:string
Properties	content: simple minOccurs: 0
Source	<pre><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></pre>
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	<pre><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></pre>
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	<p>A QuantityKind is an abstract classifier that represents the concept of "kind of quantity". A QuantityKind represents...</p> <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>				
Type	xs:anyURI				
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				
Source	<pre><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></pre>				
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	<table> <tr> <td>attribute form default:</td><td>unqualified</td></tr> <tr> <td>element form default:</td><td>qualified</td></tr> </table>	attribute form default:	unqualified	element form default:	qualified
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	Elements	dm:DataDefinitions, dsd:DSD			
Model	dt:dataInterfaceSpecification				
Children	dt:dataInterfaceSpecification				
Instance	<pre><dt:DI id=" " xmlns:dt="eu:faredge:drpp:di"> <dt:dataInterfaceSpecification>{1,1}</dt:dataInterfaceSpecification> </dt:DI></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
Source	<pre><xs:element name="DI"> <xs:annotation></pre>				

	<pre> <xs:documentation>FAR-Edge Data Interface Specification</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="dataInterfaceSpecification"> <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 name="Parameters"> <xs:complexType> <xs:sequence> <xs:element name="parameter"> <xs:complexType> <xs:sequence> <xs:element name="description" type="xs:string"/> <xs:element name="name" type="xs:string"/> <xs:element name="defaultValue" type="xs:string"/> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> <xs:attribute name="id" type="xs:anyURI" /> </xs:complexType> </xs:element> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Element dt:DI / dt:dataInterfaceSpecification

Namespace	eu:faredge:drpp:di
Diagram	<pre> classDiagram class dataInterfaceSpecification { communicationProtocol Parameters } class communicationProtocol { "Specifies the protocol Type (i.e. MQTT, JMS, OPCUA, HTTP ...)" } class Parameters { } dataInterfaceSpecification --> communicationProtocol dataInterfaceSpecification --> Parameters </pre>
Properties	content: complex
Model	dt:communicationProtocol{0,1} , dt:Parameters
Children	dt:Parameters, dt:communicationProtocol
Instance	<pre> <dt:dataInterfaceSpecification xmlns:dt="eu:faredge:drpp:di"> <dt:communicationProtocol{0,1}</dt:communicationProtocol> <dt:Parameters>{1,1}</dt:Parameters> </dt:dataInterfaceSpecification> </pre>
Source	<pre> <xs:element name="dataInterfaceSpecification"> <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 name="Parameters"> <xs:complexType> <xs:sequence> <xs:element name="parameter"> <xs:complexType> <xs:sequence> <xs:element name="description" type="xs:string"/> <xs:element name="name" type="xs:string"/> <xs:element name="defaultValue" type="xs:string"/> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>

	<pre> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Element **dt:DI** / **dt:dataInterfaceSpecification** / **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	<pre> <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> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Element **dt:DI** / **dt:dataInterfaceSpecification** / **dt:Parameters**

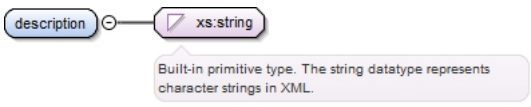
Namespace	eu:faredge:drpp:di
Diagram	
Properties	content: complex
Model	dt:parameter
Children	dt:parameter
Instance	<pre> <dt:Parameters xmlns:dt="eu:faredge:drpp:di"> <dt:parameter>{1,1}</dt:parameter> </dt:Parameters> </pre>
Source	<pre> <xs:element name="Parameters"> <xs:complexType> <xs:sequence> <xs:element name="parameter"> <xs:complexType> <xs:sequence> <xs:element name="description" type="xs:string"/> <xs:element name="name" type="xs:string"/> <xs:element name="defaultValue" type="xs:string"/> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

Element **dt:DI** / **dt:dataInterfaceSpecification** / **dt:Parameters** / **dt:parameter**

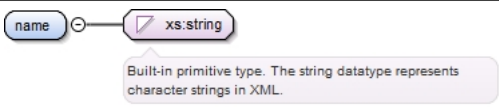
Namespace	eu:faredge:drpp:di
Diagram	

Properties	content: complex
Model	dt:description , dt:name , dt:defaultValue
Children	dt:defaultValue, dt:description, dt:name
Instance	<pre><dt:parameter xmlns:dt="eu:faredge:drpp:di"> <dt:description>{1,1}</dt:description> <dt:name>{1,1}</dt:name> <dt:defaultValue>{1,1}</dt:defaultValue> </dt:parameter></pre>
Source	<pre><xs:element name="parameter"> <xs:complexType> <xs:sequence> <xs:element name="description" type="xs:string"/> <xs:element name="name" type="xs:string"/> <xs:element name="defaultValue" type="xs:string"/> </xs:sequence> </xs:complexType> </xs:element></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataInterface.xsd

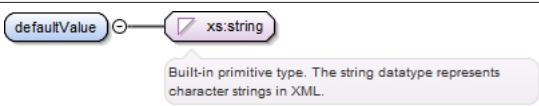
Element dt:DI / dt:dataInterfaceSpecification / dt:Parameters / dt:parameter / dt:description

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

Element dt:DI / dt:dataInterfaceSpecification / dt:Parameters / dt:parameter / dt:name

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

Element dt:DI / dt:dataInterfaceSpecification / dt:Parameters / dt:parameter / dt:defaultValue

Namespace	eu:faredge:drpp:di
Diagram	
Type	xs:string
Properties	content: simple
Source	<pre><xs:element name="defaultValue" type="xs:string"/></pre>

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:DataDefinitions			
Model	dt:DI , dt:DK				
Children	dt:DI, dt:DK				
Instance	<pre><dsd:DSD id=" " xmlns:dsd="eu:faredge:drpp:dsd" xmlns:di="eu:faredge:drpp:di" xmlns:dt="eu:faredge:drpp:dk"> <di:DI id=" ">{1,1}</di:DI> <dt:DK id=" ">{1,1}</dt:DK> </dsd:DSD></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
		Uniquely identifies the Data Source as a URI			
Source	<pre><xs:element name="DSD"> <xs:annotation> <xs:documentation>FAR-Edge Data Source Definition</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="di:DI"/> <xs:element ref="dt:DK"/> </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></pre>				
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:Connections			
Model	dcd:expirationDateTime , dcd:validFrom , dcd:dataSourceManifestID , dcd:dataConsumerManifestID				
Children	dcd:dataConsumerManifestID, dcd:dataSourceManifestID, dcd:expirationDateTime, dcd:validFrom				
Instance	<pre><dcd:DCD id=" " xmlns:dcd="eu:faredge:drpp:dcd"> <dcd:expirationDateTime>{1,1}</dcd:expirationDateTime> <dcd:validFrom>{1,1}</dcd:validFrom> <dcd:dataSourceManifestID>{1,1}</dcd:dataSourceManifestID> <dcd:dataConsumerManifestID>{1,1}</dcd:dataConsumerManifestID> </dcd:DCD></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
	Uniquely identifies the Data Channel as a URI				
Source	<pre><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="expirationDateTime"/> <xs:element type="xs:dateTime" name="validFrom"/> <xs:element name="dataSourceManifestID" 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="dataConsumerManifestID" nillable="false" type="xs:anyURI"> <xs:annotation></pre>				

	<pre> <xs:documentation>The ID of the Data Consumer 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> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataChannelDescriptor.xsd

Element dcd:DCD / dcd:expirationDateTime

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

Element dcd:DCD / dcd:dataSourceManifestID

Namespace	eu.faredge:drpp:dcd
Annotations	The ID of the Data Source Manifest the Data Channel Descriptor points to.
Diagram	
Type	xs:anyURI
Properties	content: simple
Source	<pre> <xs:element name="dataSourceManifestID" 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> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataChannelDescriptor.xsd

Element dcd:DCD / dcd:dataConsumerManifestID

Namespace	eu.faredge:drpp:dcd
-----------	---------------------

Annotations	The ID of the Data Consumer Manifest the Data Channel Descriptor points to.
Diagram	
Type	xs:anyURI
Properties	content: simple nillable: false
Source	<pre><xs:element name="dataConsumerManifestID" nillable="false" type="xs:anyURI"> <xs:annotation> <xs:documentation>The ID of the Data Consumer Manifest the Data Channel Descriptor points to.</xs:documentation> </xs:annotation> </xs:element></pre>
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:Device			
Model	dcm:dataSourceDefinitionsIDs				
Children	dcm:dataSourceDefinitionsIDs				
Instance	<pre><dcm:DCM id=" " xmlns:dcm="eu:faredge:drpp:dcm"> <dcm:dataSourceDefinitionsIDs>{1,1}</dcm:dataSourceDefinitionsIDs> </dcm:DCM></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
	Uniquely identifies the Data Consumer Manifest as a URI				
Source	<pre><xs:element name="DCM"> <xs:annotation></pre>				

	<pre> <xs:documentation>FAR-Edge Data Consumer Manifest</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="dataSourceDefinitionsIDs"> <xs:annotation> <xs:documentation>Provides a list of pointers to Data Source Definitions that are compatible and of interest.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:list itemType="xs:anyURI" /> </xs:simpleType> </xs:element> </xs:sequence> <xs:attribute name="id" type="xs:anyURI"> <xs:annotation> <xs:documentation>Uniquely identifies the Data Consumer Manifest as a URI</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataConsumerManifest.xsd

Element dcm:DCM / dcm:dataSourceDefinitionsIDs

Namespace	eu:faredge:drpp:dcm
Annotations	Provides a list of pointers to Data Source Definitions that are compatible and of interest.
Diagram	
Type	list of xs:anyURI
Properties	content: simple
Source	<pre> <xs:element name="dataSourceDefinitionsIDs"> <xs:annotation> <xs:documentation>Provides a list of pointers to Data Source Definitions that are compatible and of interest.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:list itemType="xs:anyURI" /> </xs:simpleType> </xs:element> </pre>
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

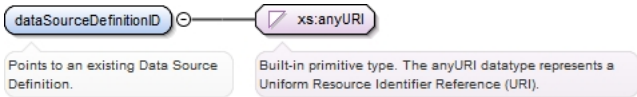
Element(s)

Element dsm:DSM

Namespace	eu:faredge:drpp:dsm
Annotations	FAR-Edge Data Source Manifest

Diagram					
Properties	content:	complex			
Used by	Element	dm:Device			
Model	dsm:dataSourceDefinitionID , dsm:dataSourceDefinitionParameters				
Children	dsm:dataSourceDefinitionID, dsm:dataSourceDefinitionParameters				
Instance	<pre><dsm:DSM id=" " xmlns:dsm="eu:faredge:drpp:dsm"> <dsm:dataSourceDefinitionID>{1,1}</dsm:dataSourceDefinitionID> <dsm:dataSourceDefinitionParameters>{1,1}</dsm:dataSourceDefinitionParameters> </dsm:DSM></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
	Uniquely identifies the Data Source Manifest as a URI				
Source	<pre><xs:element name="DSM"> <xs:annotation> <xs:documentation>FAR-Edge Data Source Manifest</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="dataSourceDefinitionID" type="xs:anyURI"> <xs:annotation> <xs:documentation>Points to an existing Data Source Definition.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="dataSourceDefinitionParameters"> <xs:complexType> <xs:sequence> <xs:element name="parameters" maxOccurs="unbounded"> <xs:complexType> <xs:sequence> <xs:element type="xs:string" name="key"/> <xs:element type="xs:string" name="value"/> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> <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:complexType> </xs:element></pre>				
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd				

Element dsm:DSM / dsm:dataSourceDefinitionID

Namespace	eu:faredge:drpp:dsm
Annotations	Points to an existing Data Source Definition.
Diagram	
Type	xs:anyURI
Properties	content: simple

Source	<pre><xs:element name="dataSourceDefinitionID" type="xs:anyURI"> <xs:annotation> <xs:documentation>Points to an existing Data Source Definition.</xs:documentation> </xs:annotation> </xs:element></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd

Element dsm:DSM / dsm:dataSourceDefinitionParameters

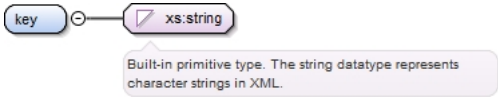
Namespace	eu:faredge:drpp:dsm
Diagram	
Properties	content: complex
Model	dsm:parameters+
Children	dsm:parameters
Instance	<pre><dsm:dataSourceDefinitionParameters xmlns:dsm="eu:faredge:drpp:dsm"> <dsm:parameters>{1,unbounded}</dsm:parameters> </dsm:dataSourceDefinitionParameters></pre>
Source	<pre><xs:element name="dataSourceDefinitionParameters"> <xs:complexType> <xs:sequence> <xs:element name="parameters" maxOccurs="unbounded"> <xs:complexType> <xs:sequence> <xs:element type="xs:string" name="key"/> <xs:element type="xs:string" name="value"/> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd

Element dsm:DSM / dsm:dataSourceDefinitionParameters / dsm:parameters

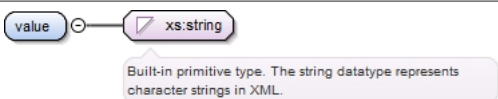
Namespace	eu:faredge:drpp:dsm
Diagram	
Properties	content: complex
	maxOccurs: unbounded
Model	dsm:key , dsm:value
Children	dsm:key, dsm:value
Instance	<pre><dsm:parameters xmlns:dsm="eu:faredge:drpp:dsm"> <dsm:key>{1,1}</dsm:key> <dsm:value>{1,1}</dsm:value> </dsm:parameters></pre>
Source	<pre><xs:element name="parameters" maxOccurs="unbounded"> <xs:complexType> <xs:sequence> <xs:element type="xs:string" name="key"/> <xs:element type="xs:string" name="value"/> </xs:sequence> </xs:complexType> </xs:element></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd

Element dsm:DSM / dsm:dataSourceDefinitionParameters / dsm:parameters / dsm:key

Namespace	eu:faredge:drpp:dsm
-----------	---------------------

Diagram	
Type	xs:string
Properties	content: simple
Source	<code><xs:element type="xs:string" name="key"/></code>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataSourceManifest.xsd

Element `dsm:DSM` / `dsm:dataSourceDefinitionParameters` / `dsm:parameters` / `dsm:value`

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

Namespace: "eu:faredge:ea:processormd"

Schema(s)

Imported schema `EaProcessorMD.xsd`

Namespace	eu:faredge:ea:processormd				
Properties	<table> <tr> <td>attribute form default:</td><td>unqualified</td></tr> <tr> <td>element form default:</td><td>qualified</td></tr> </table>	attribute form default:	unqualified	element form default:	qualified
attribute form default:	unqualified				
element form default:	qualified				
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd				

Element(s)

Element `eapmd:EaProcessorMD`

Namespace	eu:faredge:ea:processormd
Annotations	FAR-Edge Edge Analytics Procesor Meta-Data

Diagram					
Properties	content:	complex			
Used by	Element	dm:ProcessingDevices			
Model	eapmd:processorType , eapmd:version{0,1} , eapmd:copyright{0,1} , eapmd:description{0,1} , eapmd:processorLocation , eapmd:additionalInformation* , eapmd:ProcessorConfigs{0,1}				
Children	eapmd:ProcessorConfigs, eapmd:additionalInformation, eapmd:copyright, eapmd:description, eapmd:processorLocation, eapmd:processorType, eapmd:version				
Instance	<pre><eapmd:EaProcessorMD id=" " name=" " xmlns:eapmd="eu:fareedge:ea:processormd"> <eapmd:processorType>{1,1}</eapmd:processorType> <eapmd:version>{0,1}</eapmd:version> <eapmd:copyright>{0,1}</eapmd:copyright> <eapmd:description>{0,1}</eapmd:description> <eapmd:processorLocation>{1,1}</eapmd:processorLocation> <eapmd:additionalInformation>{0,unbounded}</eapmd:additionalInformation> <eapmd:ProcessorConfigs>{0,1}</eapmd:ProcessorConfigs> </eapmd:EaProcessorMD></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	xs:anyURI			optional
		The Processor ID			
	name	xs:string			optional
	The processor name				
Source	<pre><xs:element name="EaProcessorMD"> <xs:annotation> <xs:documentation>FAR-Edge Edge Analytics Processor Meta-Data</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:sequence> </xs:complexType> </xs:element></pre>				

	<pre> </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="eapmd:additionalInformation"/> <xs:element minOccurs="0" maxOccurs="1" ref="eapmd:ProcessorConfigs"/> </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> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd

Element eapmd:EaProcessorMD / eapmd:processorType

Namespace	eu:faredge:ea:processormd						
Annotations	The type of the Processor						
Diagram	<p>The type of the Processor</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>						
Type	xs:string						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1
content:	simple						
minOccurs:	1						
maxOccurs:	1						
Source	<pre> <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> </pre>						
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd						

Element eapmd:EaProcessorMD / eapmd:version

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

	<pre> <xs:documentation>The version of the processor type</xs:documentation> </xs:annotation> </xs:element> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd

Element eapmd:EaProcessorMD / eapmd:copyright

Namespace	eu:faredge:ea:processormd						
Annotations	Processor Owner						
Diagram							
Type	xs:string						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre> <xs:element name="copyright" type="xs:string" maxOccurs="1" minOccurs="0"> <xs:annotation> <xs:documentation>Processor Owner</xs:documentation> </xs:annotation> </xs:element> </pre>						
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd						

Element eapmd:EaProcessorMD / eapmd:description

Namespace	eu:faredge:ea:processormd						
Annotations	Deacription of the Processor						
Diagram							
Type	xs:string						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre> <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> </pre>						
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd						

Element eapmd:EaProcessorMD / eapmd:processorLocation

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

	<pre> <xs:annotation> <xs:documentation>The physical or relative location of the processor library</xs:documentation> </xs:annotation> </xs:element> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd

Element eapmd:additionalInformation

Namespace	eu:faredge:ea:processormd
Annotations	Optional auxiliary field that may contain any additional information
Diagram	
Used by	Element eapmd:EaProcessorMD
Source	<pre> <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> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd

Element eapmd:ProcessorConfigs

Namespace	eu:faredge:ea:processormd
Annotations	Edge Analytics Processor Configurations
Diagram	
Properties	content: complex
Used by	Element eapmd:EaProcessorMD
Model	eapmd:attribute*
Children	eapmd:attribute
Instance	<pre> <eapmd:ProcessorConfigs xmlns:eapmd="eu:faredge:ea:processormd"> <eapmd:attribute dataType=" " name=" " unit=" ">{0,unbounded}</eapmd:attribute> </eapmd:ProcessorConfigs> </pre>
Source	<pre> <xs:element name="ProcessorConfigs"> <xs:annotation> <xs:documentation>Edge Analytics Processor Configurations</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="attribute" maxOccurs="unbounded" minOccurs="0"> <xs:annotation> <xs:documentation>EA Processor List of Attributes</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <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:element name="Value" type="xs:anyType" minOccurs="1"> <xs:annotation> <xs:documentation>Element describing the value of an attribute.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>

	<pre> </xs:element> </xs:sequence> <xs:attribute name="name" type="xs:string"/> <xs:attribute name="unit" type="xs:string"/> <xs:attribute name="dataType" type="xs:string"/> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd

Element eapmd:ProcessorConfigs / eapmd:attribute

Namespace	eu:faredge:ea:processormd				
Annotations	EA Processor List of Attributes				
Diagram					
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	unbounded			
Model	eapmd:DefaultValue{0,1} , eapmd:Value				
Children	eapmd:DefaultValue, eapmd:Value				
Instance	<pre><eapmd:attribute dataType="" name="" unit="" xmlns:eapmd="eu:faredge:ea:processormd"> <eapmd:DefaultValue>{0,1}</eapmd:DefaultValue> <eapmd:Value>{1,1}</eapmd:Value> </eapmd:attribute></pre>				
Attributes	QName	Type	Fixed	Default	Use
	dataType	xs:string			optional
	name	xs:string			optional
	unit	xs:string			optional
Source	<pre><xs:element name="attribute" maxOccurs="unbounded" minOccurs="0"> <xs:annotation> <xs:documentation>EA Processor List of Attributes</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <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:element name="Value" type="xs:anyType" minOccurs="1"> <xs:annotation> <xs:documentation>Element describing the value of an attribute.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> <xs:attribute name="name" type="xs:string"/> <xs:attribute name="unit" type="xs:string"/> <xs:attribute name="dataType" type="xs:string"/> </xs:complexType> </xs:element></pre>				
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd				

Element eapmd:ProcessorConfigs / eapmd:attribute / eapmd:DefaultValue

Namespace	eu:faredge:ea:processormd
Annotations	A predefined default value for an attribute.
Diagram	
Properties	minOccurs: 0
Source	<pre><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></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd

Element eapmd:ProcessorConfigs / eapmd:attribute / eapmd:Value

Namespace	eu:faredge:ea:processormd
Annotations	Element describing the value of an attribute.
Diagram	
Properties	minOccurs: 1
Source	<pre><xs:element name="Value" type="xs:anyType" minOccurs="1"> <xs:annotation> <xs:documentation>Element describing the value of an attribute.</xs:documentation> </xs:annotation> </xs:element></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd

Namespace: ""**Attribute(s)****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	<pre><xs:attribute name="id" type="xs:anyURI"> <xs:annotation> <xs:documentation>Uniquely identifies the Data Source Manifest as a URI</xs:documentation> </xs:annotation></pre>

	</xs:attribute>
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 as a URI
Type	xs:anyURI
Properties	content: simple
Used by	Element dcm:DCM
Source	<pre><xs:attribute name="id" type="xs:anyURI"> <xs:annotation> <xs:documentation>Uniquely identifies the Data Consumer Manifest as a URI</xs:documentation> </xs:annotation> </xs:attribute></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DataConsumerManifest.xsd

Attribute dm:Device / @id

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

Attribute dm:Device / @namespace

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

Attribute dt:DI / @id

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

Attribute dm:DataDefinitions / @id

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

Attribute dm:Connections / @id

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

Attribute dm:Connections / @namespace

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

Attribute eapmd:ProcessorConfigs / eapmd:attribute / @name

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

Attribute eapmd:ProcessorConfigs / eapmd:attribute / @unit

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

Attribute eapmd:ProcessorConfigs / eapmd:attribute / @dataType

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

Attribute eapmd:EaProcessorMD / @id

Namespace	No namespace
Annotations	The Processor ID
Type	xs:anyURI
Properties	use: optional
Used by	Element eapmd:EaProcessorMD
Source	<pre><xs:attribute name="id" type="xs:anyURI" use="optional"> <xs:annotation> <xs:documentation>The Processor ID</xs:documentation> </xs:annotation> </xs:attribute></pre>

	<pre></xs:annotation> </xs:attribute></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd

Attribute eapmd:EaProcessorMD / @name

Namespace	No namespace
Annotations	The processor name
Type	xs:string
Properties	content: simple
Used by	Element eapmd:EaProcessorMD
Source	<pre><xs:attribute name="name" type="xs:string"> <xs:annotation> <xs:documentation>The processor name</xs:documentation> </xs:annotation> </xs:attribute></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/EaProcessorMD.xsd

Attribute dm:ProcessingDevices / @namespace

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

Attribute dm:observation / @id

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

Attribute dm:observation / @quantityKind

Namespace	No namespace
-----------	--------------

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)
Type	xs:string
Properties	content: simple
Used by	Element dm:observation
Source	<pre><xs:attribute name="quantityKind" type="xs:string"> <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:attribute></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute dm:observation / @dataType

Namespace	No namespace
Annotations	A classification of data (i.e. short, int, float, boolean, ...)
Type	xs:string
Properties	content: simple
Used by	Element dm:observation
Source	<pre><xs:attribute name="dataType" type="xs:string"> <xs:annotation> <xs:documentation>A classification of data (i.e. short, int, float, boolean, ...)</xs:documentation> </xs:annotation> </xs:attribute></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute dm:DeviceLD / @id

Namespace	No namespace
Annotations	The ID of the device (physical or virtual) these observations point to.
Type	xs:anyURI
Properties	content: simple
Used by	Element dm:DeviceLD
Source	<pre><xs:attribute name="id" type="xs:anyURI"> <xs:annotation> <xs:documentation>The ID of the device (physical or virtual) these observations point to.</xs:documentation> </xs:annotation> </xs:attribute></pre>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd

Attribute dm:DeviceLD / @name

Namespace	No namespace
Annotations	The Name of the Edge Node these measurements point to.
Type	xs:string
Properties	content: simple
Used by	Element dm:DeviceLD
Source	<pre><xs:attribute name="name" type="xs:string"> <xs:annotation> <xs:documentation>The Name of the Edge Node these measurements point to.</xs:documentation> </xs:annotation></pre>

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

Attribute dm:DeviceLD / @mobile

Namespace	No namespace
Annotations	Identifies if the Edge node is mobile or not
Type	xs:boolean
Properties	default: false
Used by	Element dm:DeviceLD
Source	<pre><xs:attribute default="false" name="mobile" type="xs:boolean"> <xs:annotation> <xs:documentation>Identifies if the Edge node is mobile or not</xs:documentation> </xs:annotation> </xs:attribute></pre>
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	<pre><xs:attribute name="id" type="xs:anyURI" /></pre>
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	<pre><xs:attribute name="name" type="xs:string" /></pre>
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	<pre><xs:attribute name="namespace" type="xs:string"> <xs:annotation> <xs:documentation>For scope hierarchy.</xs:documentation> </xs:annotation> </xs:attribute></pre>
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	<code><xs:attribute name="id" type="xs:anyURI"/></code>
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	<code><xs:attribute name="name" type="xs:string"/></code>
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	<code><xs:attribute name="namespace" type="xs:string"> <xs:annotation> <xs:documentation>For scope hierarchy.</xs:documentation> </xs:annotation> </xs:attribute></code>
Schema location	file:/C:/Ext_SSD/AIT/FAR-EDGE/Tasks/Digital Models/Model/FAR-EDGE_ML/DigitalModels.xsd