



Sensor Management

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1. INTRODUCTION

Sensor Management profile describes how organizations can configure sensors to gain observations from areas of interest. This is important across the whole emergency incident life-cycle, including preparedness, pre-staging of sensors, initial and on-going response, recovery and demobilization/release of sensors.

2. OBJECTIVES

The objectives of implementing this profile are:

1. Expect that all sensors need to respond and adapt to emergency incidents, such as
 - a. Querying and finding out about available sensors,
 - b. Configuring sensors to send the requested observations (data).

3. SCOPE

This profile supports a process of discovering, ordering and deploying sensors which are needed in emergency situations. The intended scope for this profile includes:

- During and after emergency situations
- By emergency managers
- Among on-site coordination centers, local organizations, national organizations and non-governmental organizations.

It is assumed, that the sensor infrastructure is ready to run, i.e. low level configuration (including type of protocol, physical connection, etc.) is a prerequisite and thus not part of this profile.

4. PROFILE DETAILED DESCRIPTION

4.2. Roles Involved

Actor	Description
Sensor Manager	The Sensor Manager is the person who configures sensors at a high level
Sensor	Sensors are used in the emergency domain to provide the desired data like temperature, water level, air pollution, smoke, radioactivity etc.

4.3. Actor Diagram

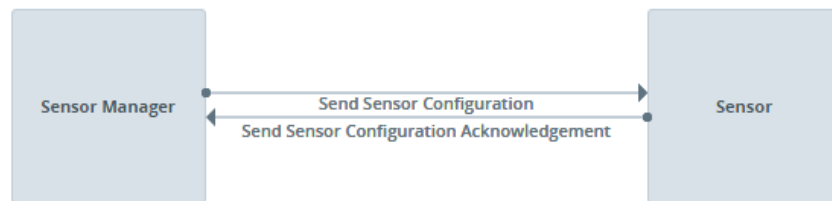


Figure above shows the actors directly involved in the Sensor Management Profile and the possible messages to be exchanged between them.

4.4. Transaction Information

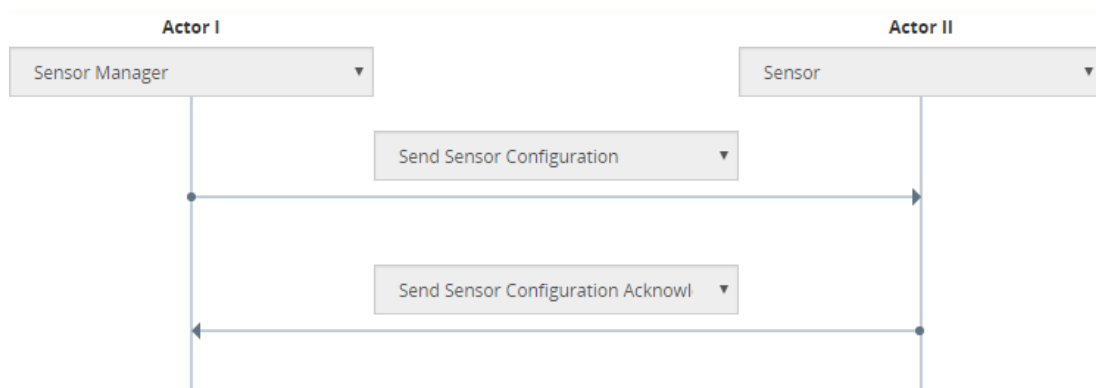
4.4.1. Configure Sensor

4.4.1.1. Description

Categories	Description and Values
Identifier	1467275463756
Description	The sensors need to be configured to provide the desired data with the desired resolution in time

	and spatial domain.
Actors	Sensor Manager, Sensor
Pre-conditions	Sensors need to be configured at low level, according to the type of sensor and the connection to the sensor adapter, so that the sensors are ready to run, connected to ESB, and listening for commands.
Post-conditions	Sensor is configured and behaves according to command, e.g. sending measurement values.

4.4.1.2. Interaction Diagram



4.4.1.3. Send Sensor Configuration Message

4.4.1.3.1. Message Semantics

```

<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema" xmlns:sml="http://www.opengis.net/sensorml/2.0"
targetNamespace="http://www.opengis.net/sensorml/2.0" elementFormDefault="qualified"
attributeFormDefault="unqualified" version="2.0.0">
  <import namespace="http://www.opengis.net/swe/2.0" schemaLocation="./sweCommon/2.0/swe.xsd"/>
  <import namespace="http://www.opengis.net/gml/3.2" schemaLocation="./gml/gml.xsd"/>
  <include schemaLocation="physical_component.xsd"/>
  <include schemaLocation="aggregate_process.xsd"/>
  <include schemaLocation="core.xsd"/>

```

```

    <element name="SimpleProcess" substitutionGroup="sml:AbstractProcess"
type="sml:SimpleProcessType"/>
    <complexType name="SimpleProcessType">
        <complexContent>
            <extension base="sml:AbstractProcessType">
                <sequence>
                    <element maxOccurs="1" minOccurs="0" name="method"
type="sml:ProcessMethodPropertyType"/>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
    <complexType name="SimpleProcessPropertyType">
        <sequence minOccurs="0">
            <element ref="sml:SimpleProcess"/>
        </sequence>
        <attributeGroup ref="gml:AssociationAttributeGroup"/>
        <attributeGroup ref="gml:OwnershipAttributeGroup"/>
    </complexType>
    <element name="ProcessMethod" substitutionGroup="swe:AbstractSWEIdentifiable"
type="sml:ProcessMethodType"/>
    <complexType name="ProcessMethodType">
        <complexContent>
            <extension base="swe:AbstractSWEIdentifiableType">
                <sequence>
                    <element maxOccurs="unbounded" minOccurs="0" name="algorithm">
                        <complexType>
                            <sequence>
                                <element ref="sml:AbstractAlgorithm"/>
                            </sequence>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
    <complexType name="ProcessMethodPropertyType">
        <sequence minOccurs="0">
            <element ref="sml:ProcessMethod"/>
        </sequence>
        <attributeGroup ref="swe:AssociationAttributeGroup"/>
    </complexType>
    <element abstract="true" name="AbstractAlgorithm" substitutionGroup="gml:AbstractObject"
type="sml:AbstractAlgorithmType"/>
    <complexType abstract="true" name="AbstractAlgorithmType">
        <sequence/>
        <attribute ref="gml:id" use="optional"/>
    </complexType>
    <complexType name="AbstractAlgorithmPropertyType">
        <sequence minOccurs="0">

```

```

        <element ref="sml:AbstractAlgorithm"/>
    </sequence>
    <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<element name="Mode" substitutionGroup="sml:DescribedObject" type="sml:ModeType"/>
<complexType name="ModeType">
    <complexContent>
        <extension base="sml:DescribedObjectType">
            <sequence>
                <element name="configuration" type="sml:SettingsPropertyType"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<complexType name="ModePropertyType">
    <sequence minOccurs="0">
        <element ref="sml:Mode"/>
    </sequence>
    <attributeGroup ref="swe:AssociationAttributeGroup"/>
<element name="ModeChoice" substitutionGroup="sml:AbstractModes" type="sml:ModeChoiceType"/>
<complexType name="ModeChoiceType">
    <complexContent>
        <extension base="sml:AbstractModesType">
            <sequence>
                <element maxOccurs="unbounded" minOccurs="1" name="mode"
type="sml:ModePropertyType"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<complexType name="ModeChoicePropertyType">
    <sequence minOccurs="0">
        <element ref="sml:ModeChoice"/>
    </sequence>
    <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<element name="Settings" substitutionGroup="sml:AbstractSettings" type="sml:SettingsType"/>
<complexType name="SettingsType">
    <complexContent>
        <extension base="sml:AbstractSettingsType">
            <sequence>
                <element maxOccurs="unbounded" minOccurs="0" name="setValue"
type="sml:ValueSettingPropertyType"/>
                <element maxOccurs="unbounded" minOccurs="0" name="setArrayValues"
type="sml:ArraySettingPropertyType"/>
                <element maxOccurs="unbounded" minOccurs="0" name="setConstraint"
type="sml:ConstraintSettingPropertyType"/>
                <element maxOccurs="unbounded" minOccurs="0" name="setMode"
type="sml:ModeSettingPropertyType"/>
                <element maxOccurs="unbounded" minOccurs="0" name="setStatus"
type="sml:StatusSettingPropertyType"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>

```

```

        </sequence>
    </extension>
</complexContent>
</complexType>
<complexType name="SettingsPropertyType">
    <sequence minOccurs="0">
        <element ref="sml:Settings"/>
    </sequence>
    <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<complexType name="ArraySettingPropertyType">
    <sequence>
        <element name="ArrayValues">
            <complexType>
                <sequence>
                    <element name="encoding">
                        <complexType>
                            <sequence>
                                <element ref="swe:AbstractEncoding"/>
                            </sequence>
                        </complexType>
                    </element>
                    <element name="value" type="swe:EncodedValuesPropertyType"/>
                </sequence>
            </complexType>
        </element>
    </sequence>
    <attribute name="ref" type="sml:DataComponentPathPropertyType" use="required"/>
</complexType>
<complexType name="ModeSettingPropertyType">
    <simpleContent>
        <extension base="NCName">
            <attribute name="ref" type="sml:DataComponentPathPropertyType" use="required"/>
        </extension>
    </simpleContent>
</complexType>
<complexType name="ValueSettingPropertyType">
    <simpleContent>
        <extension base="token">
            <attribute name="ref" type="sml:DataComponentPathPropertyType" use="required"/>
        </extension>
    </simpleContent>
</complexType>
<complexType name="ConstraintSettingPropertyType">
    <sequence>
        <group ref="sml:Constraint"/>
    </sequence>
    <attribute name="ref" type="sml:DataComponentPathPropertyType" use="required"/>
</complexType>
<complexType name="StatusSettingPropertyType">

```



```

    <simpleContent>
      <extension base="sml:StatusType">
        <attribute name="ref" type="sml:DataComponentPathPropertyType" use="required"/>
      </extension>
    </simpleContent>
  </complexType>
<group name="Constraint">
  <choice>
    <element ref="swe:AllowedTimes"/>
    <element ref="swe:AllowedTokens"/>
    <element ref="swe:AllowedValues"/>
  </choice>
</group>
<complexType name="ConstraintPropertyType">
  <sequence minOccurs="0">
    <group ref="sml:Constraint"/>
  </sequence>
  <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<simpleType name="StatusType">
  <restriction base="string">
    <enumeration value="enabled"/>
    <enumeration value="disabled"/>
  </restriction>
</simpleType>
<element name="PhysicalSystem" substitutionGroup="sml:AbstractPhysicalProcess"
type="sml:PhysicalSystemType"/>
<complexType name="PhysicalSystemType">
  <complexContent>
    <extension base="sml:AbstractPhysicalProcessType">
      <sequence>
        <element maxOccurs="1" minOccurs="0" name="components"
type="sml:ComponentListPropertyType"/>
        <element maxOccurs="1" minOccurs="0" name="connections"
type="sml:ConnectionListPropertyType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<complexType name="PhysicalSystemPropertyType">
  <sequence minOccurs="0">
    <element ref="sml:PhysicalSystem"/>
  </sequence>
  <attributeGroup ref="gml:AssociationAttributeGroup"/>
  <attributeGroup ref="gml:OwnershipAttributeGroup"/>
</complexType>
<element name="PhysicalComponent" substitutionGroup="sml:AbstractPhysicalProcess"
type="sml:PhysicalComponentType"/>
</element>
<complexType name="PhysicalComponentType">

```

```

    <complexContent>
      <extension base="sml:AbstractPhysicalProcessType">
        <sequence>
          <element maxOccurs="1" minOccurs="0" name="method"
type="sml:ProcessMethodPropertyType"/>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
  <complexType name="PhysicalComponentPropertyType">
    <sequence minOccurs="0">
      <element ref="sml:PhysicalComponent"/>
    </sequence>
    <attributeGroup ref="gml:AssociationAttributeGroup"/>
    <attributeGroup ref="gml:OwnershipAttributeGroup"/>
  </complexType>
  <element abstract="true" name="AbstractPhysicalProcess"
substitutionGroup="sml:AbstractProcess" type="sml:AbstractPhysicalProcessType"/>
  <complexType abstract="true" name="AbstractPhysicalProcessType">
    <complexContent>
      <extension base="sml:AbstractProcessType">
        <sequence>
          <element maxOccurs="1" minOccurs="0" name="attachedTo"
type="gml:ReferenceType">
            <annotation>
              <appinfo>
<gml:targetElement>sml:AbstractPhysicalProcess</gml:targetElement>
            </appinfo>
          </annotation>
        </element>
        <element maxOccurs="unbounded" minOccurs="0" name="localReferenceFrame">
          <complexType>
            <sequence>
              <element ref="sml:SpatialFrame"/>
            </sequence>
          </complexType>
        </element>
        <element maxOccurs="unbounded" minOccurs="0" name="localTimeFrame">
          <complexType>
            <sequence>
              <element ref="sml:TemporalFrame"/>
            </sequence>
          </complexType>
        </element>
        <element maxOccurs="unbounded" minOccurs="0" name="position"
type="sml:PositionUnionPropertyType"/>
        <element maxOccurs="unbounded" minOccurs="0" name="timePosition"
type="swe:TimePropertyType"/>
      </sequence>
    </extension>
  </complexContent>

```

```
</complexContent>
</complexType>
<complexType name="AbstractPhysicalProcessPropertyType">
  <sequence minOccurs="0">
    <element ref="sml:AbstractPhysicalProcess"/>
  </sequence>
  <attributeGroup ref="gml:AssociationAttributeGroup"/>
  <attributeGroup ref="gml:OwnershipAttributeGroup"/>
</complexType>
<element name="TemporalFrame" substitutionGroup="swe:AbstractSWEIdentifiable"
type="sml:TemporalFrameType"/>
<complexType name="TemporalFrameType">
  <complexContent>
    <extension base="swe:AbstractSWEIdentifiableType">
      <sequence>
        <element name="origin" type="string"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<complexType name="TemporalFramePropertyType">
  <sequence minOccurs="0">
    <element ref="sml:TemporalFrame"/>
  </sequence>
  <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<element name="SpatialFrame" substitutionGroup="swe:AbstractSWEIdentifiable"
type="sml:SpatialFrameType"/>
<complexType name="SpatialFrameType">
  <complexContent>
    <extension base="swe:AbstractSWEIdentifiableType">
      <sequence>
        <element name="origin" type="string"/>
        <element maxOccurs="unbounded" minOccurs="1" name="axis">
          <complexType>
            <simpleContent>
              <extension base="string">
                <attribute name="name" type="NCName" use="required"/>
              </extension>
            </simpleContent>
          </complexType>
        </element>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<complexType name="SpatialFramePropertyType">
  <sequence minOccurs="0">
    <element ref="sml:SpatialFrame"/>
  </sequence>
```

```

        <attributeGroup ref="swe:AssociationAttributeGroup"/>
    </complexType>
    <group name="PositionUnion">
        <choice>
            <element ref="swe:Text"/>
            <element ref="gml:Point"/>
            <element ref="swe:Vector"/>
            <element ref="swe:DataRecord"/>
            <element ref="swe:DataArray"/>
            <element ref="sml:AbstractProcess"/>
        </choice>
    </group>
    <complexType name="PositionUnionPropertyType">
        <sequence minOccurs="0">
            <group ref="sml:PositionUnion"/>
        </sequence>
        <attributeGroup ref="swe:AssociationAttributeGroup"/>
    </complexType>
    <element name="AggregateProcess" substitutionGroup="sml:AbstractProcess"
type="sml:AggregateProcessType"/>
    <complexType name="AggregateProcessType">
        <complexContent>
            <extension base="sml:AbstractProcessType">
                <sequence>
                    <element maxOccurs="1" minOccurs="0" name="components"
type="sml:ComponentListPropertyType"/>
                    <element maxOccurs="1" minOccurs="0" name="connections"
type="sml:ConnectionListPropertyType"/>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
    <complexType name="AggregateProcessPropertyType">
        <sequence minOccurs="0">
            <element ref="sml:AggregateProcess"/>
        </sequence>
        <attributeGroup ref="gml:AssociationAttributeGroup"/>
        <attributeGroup ref="gml:OwnershipAttributeGroup"/>
    </complexType>
    <element name="ConnectionList" substitutionGroup="swe:AbstractSWE"
type="sml:ConnectionListType"/>
    <complexType name="ConnectionListType">
        <complexContent>
            <extension base="swe:AbstractSWEType">
                <sequence>
                    <element maxOccurs="unbounded" minOccurs="1" name="connection">
                        <complexType>
                            <sequence>
                                <element ref="sml:Link"/>
                            </sequence>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>

```

```

        </complexType>
      </element>
    </sequence>
  </extension>
</complexContent>
</complexType>
<complexType name="ConnectionListPropertyType">
  <sequence minOccurs="0">
    <element ref="sml:ConnectionList"/>
  </sequence>
  <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<element name="ComponentList" substitutionGroup="swe:AbstractSWE"
type="sml:ComponentListType"/>
<complexType name="ComponentListType">
  <complexContent>
    <extension base="swe:AbstractSWEType">
      <sequence>
        <element maxOccurs="unbounded" minOccurs="1" name="component">
          <complexType>
            <complexContent>
              <extension base="sml:AbstractProcessPropertyType">
                <attribute name="name" type="NCName" use="required"/>
              </extension>
            </complexContent>
          </complexType>
        </element>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<complexType name="ComponentListPropertyType">
  <sequence minOccurs="0">
    <element ref="sml:ComponentList"/>
  </sequence>
  <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<element name="Link" substitutionGroup="gml:AbstractObject" type="sml:LinkType"/>
<complexType name="LinkType">
  <sequence>
    <element name="source" type="sml:DataComponentRefPropertyType"/>
    <element name="destination" type="sml:DataComponentRefPropertyType"/>
  </sequence>
  <attribute ref="gml:id" use="optional"/>
</complexType>
<complexType name="LinkPropertyType">
  <sequence minOccurs="0">
    <element ref="sml:Link"/>
  </sequence>
  <attributeGroup ref="swe:AssociationAttributeGroup"/>

```

```
</complexType>
</schema>
```

4.4.1.3.2. Protocol Requirements

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<wsdl:definitions targetNamespace="http://www.opengis.net/swes/2.0/wsdl"
  xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:swes="http://www.opengis.net/swes/2.0"
  xmlns:swesw="http://www.opengis.net/swes/2.0/wsdl"
  xmlns:ows="http://www.opengis.net/ows/1.1">
  <wsdl:types>
    <xsd:schema targetNamespace="http://www.opengis.net/swes/2.0">
      <xsd:include schemaLocation="http://schemas.opengis.net/swes/2.0/swes.xsd"/>
    </xsd:schema>
  </wsdl:types>
  <wsdl:message name="DeleteSensorRequestMessage">
    <wsdl:part name="body" element="swes:DeleteSensor"/>
  </wsdl:message>
  <wsdl:message name="DeleteSensorResponseMessage">
    <wsdl:part name="body" element="swes:DeleteSensorResponse"/>
  </wsdl:message>
  <wsdl:message name="DescribeSensorRequestMessage">
    <wsdl:part name="body" element="swes:DescribeSensor"/>
  </wsdl:message>
  <wsdl:message name="DescribeSensorResponseMessage">
    <wsdl:part name="body" element="swes:DescribeSensorResponse"/>
  </wsdl:message>
  <wsdl:message name="InsertSensorRequestMessage">
    <wsdl:part name="body" element="swes:InsertSensor"/>
  </wsdl:message>
  <wsdl:message name="InsertSensorResponseMessage">
    <wsdl:part name="body" element="swes:InsertSensorResponse"/>
  </wsdl:message>
  <wsdl:message name="UpdateSensorDescriptionRequestMessage">
    <wsdl:part name="body" element="swes:UpdateSensorDescription"/>
  </wsdl:message>
  <wsdl:message name="UpdateSensorDescriptionResponseMessage">
    <wsdl:part name="body" element="swes:UpdateSensorDescriptionResponse"/>
  </wsdl:message>
  <wsdl:message name="ExceptionMessage">
    <wsdl:part name="fault" element="ows:Exception"/>
  </wsdl:message>
```

```

<wsdl:portType name="SensorProviderInterface">
  <wsdl:operation name="DescribeSensor">
    <wsdl:input wsam:Action="http://www.opengis.net/swes/2.0/DescribeSensor"
message="swesw:DescribeSensorRequestMessage"/>
    <wsdl:output wsam:Action="http://www.opengis.net/swes/2.0/DescribeSensorResponse"
message="swesw:DescribeSensorResponseMessage"/>
    <wsdl:fault name="OperationNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="MissingParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="InvalidParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="OptionNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="NoApplicableCodeException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="InvalidRequestException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="RequestExtensionNotSupportedException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:portType name="SensorDescriptionManagerInterface">
  <wsdl:operation name="UpdateSensorDescription">
    <wsdl:input wsam:Action="http://www.opengis.net/swes/2.0/UpdateSensorDescription"
message="swesw:UpdateSensorDescriptionRequestMessage"/>
    <wsdl:output wsam:Action="http://www.opengis.net/swes/2.0/UpdateSensorDescriptionResponse"
message="swesw:UpdateSensorDescriptionResponseMessage"/>
    <wsdl:fault name="OperationNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="MissingParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="InvalidParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="OptionNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="NoApplicableCodeException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="InvalidRequestException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="RequestExtensionNotSupportedException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:portType name="SensorInsertionInterface">
  <wsdl:operation name="InsertSensor">
    <wsdl:input wsam:Action="http://www.opengis.net/swes/2.0/InsertSensor"
message="swesw:InsertSensorRequestMessage"/>
    <wsdl:output wsam:Action="http://www.opengis.net/swes/2.0/InsertSensorResponse"
message="swesw:InsertSensorResponseMessage"/>
    <wsdl:fault name="OperationNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
  </wsdl:operation>
</wsdl:portType>

```

```

        <wsdl:fault name="MissingParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
        <wsdl:fault name="InvalidParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
        <wsdl:fault name="OptionNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
        <wsdl:fault name="NoApplicableCodeException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
        <wsdl:fault name="InvalidRequestException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
        <wsdl:fault name="RequestExtensionNotSupportedException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
    </wsdl:operation>
</wsdl:portType>
<wsdl:portType name="SensorDeletionInterface">
    <wsdl:operation name="DeleteSensor">
        <wsdl:input wsam:Action="http://www.opengis.net/swes/2.0/DeleteSensor"
message="swesw:DeleteSensorRequestMessage"/>
        <wsdl:output wsam:Action="http://www.opengis.net/swes/2.0/DeleteSensorResponse"
message="swesw:DeleteSensorResponseMessage"/>
        <wsdl:fault name="OperationNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
        <wsdl:fault name="MissingParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
        <wsdl:fault name="InvalidParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
        <wsdl:fault name="OptionNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
        <wsdl:fault name="NoApplicableCodeException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
        <wsdl:fault name="InvalidRequestException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
        <wsdl:fault name="RequestExtensionNotSupportedException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
    </wsdl:operation>
</wsdl:portType>
</wsdl:definitions>

```

4.4.1.4. Send Sensor Configuration Acknowledgement Message

4.4.1.4.1. Message Semantics

```

<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema" xmlns:sml="http://www.opengis.net/sensorml/2.0"
targetNamespace="http://www.opengis.net/sensorml/2.0" elementFormDefault="qualified"
attributeFormDefault="unqualified" version="2.0.0">
    <import namespace="http://www.opengis.net/swe/2.0" schemaLocation="./sweCommon/2.0/swe.xsd"/>
    <import namespace="http://www.opengis.net/gml/3.2" schemaLocation="./gml/gml.xsd"/>

```



```

<include schemaLocation="physical_component.xsd"/>
<include schemaLocation="aggregate_process.xsd"/>
<include schemaLocation="core.xsd"/>
<element name="SimpleProcess" substitutionGroup="sml:AbstractProcess"
type="sml:SimpleProcessType"/>
  <complexType name="SimpleProcessType">
    <complexContent>
      <extension base="sml:AbstractProcessType">
        <sequence>
          <element maxOccurs="1" minOccurs="0" name="method"
type="sml:ProcessMethodPropertyType"/>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
  <complexType name="SimpleProcessPropertyType">
    <sequence minOccurs="0">
      <element ref="sml:SimpleProcess"/>
    </sequence>
    <attributeGroup ref="gml:AssociationAttributeGroup"/>
    <attributeGroup ref="gml:OwnershipAttributeGroup"/>
  </complexType>
  <element name="ProcessMethod" substitutionGroup="swe:AbstractSWEIdentifiable"
type="sml:ProcessMethodType"/>
  <complexType name="ProcessMethodType">
    <complexContent>
      <extension base="swe:AbstractSWEIdentifiableType">
        <sequence>
          <element maxOccurs="unbounded" minOccurs="0" name="algorithm">
            <complexType>
              <sequence>
                <element ref="sml:AbstractAlgorithm"/>
              </sequence>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
  <complexType name="ProcessMethodPropertyType">
    <sequence minOccurs="0">
      <element ref="sml:ProcessMethod"/>
    </sequence>
    <attributeGroup ref="swe:AssociationAttributeGroup"/>
  </complexType>
  <element abstract="true" name="AbstractAlgorithm" substitutionGroup="gml:AbstractObject"
type="sml:AbstractAlgorithmType"/>
  <complexType abstract="true" name="AbstractAlgorithmType">
    <sequence/>
    <attribute ref="gml:id" use="optional"/>

```

```

</complexType>
<complexType name="AbstractAlgorithmPropertyType">
  <sequence minOccurs="0">
    <element ref="sml:AbstractAlgorithm"/>
  </sequence>
  <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<element name="Mode" substitutionGroup="sml:DescribedObject" type="sml:ModeType"/>
<complexType name="ModeType">
  <complexContent>
    <extension base="sml:DescribedObjectType">
      <sequence>
        <element name="configuration" type="sml:SettingsPropertyType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<complexType name="ModePropertyType">
  <sequence minOccurs="0">
    <element ref="sml:Mode"/>
  </sequence>
  <attributeGroup ref="swe:AssociationAttributeGroup"/>
  <element name="ModeChoice" substitutionGroup="sml:AbstractModes" type="sml:ModeChoiceType"/>
  <complexType name="ModeChoiceType">
    <complexContent>
      <extension base="sml:AbstractModesType">
        <sequence>
          <element maxOccurs="unbounded" minOccurs="1" name="mode"
type="sml:ModePropertyType"/>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
  <complexType name="ModeChoicePropertyType">
    <sequence minOccurs="0">
      <element ref="sml:ModeChoice"/>
    </sequence>
    <attributeGroup ref="swe:AssociationAttributeGroup"/>
  </complexType>
  <element name="Settings" substitutionGroup="sml:AbstractSettings" type="sml:SettingsType"/>
  <complexType name="SettingsType">
    <complexContent>
      <extension base="sml:AbstractSettingsType">
        <sequence>
          <element maxOccurs="unbounded" minOccurs="0" name="setValue"
type="sml:ValueSettingPropertyType"/>
          <element maxOccurs="unbounded" minOccurs="0" name="setArrayValues"
type="sml:ArraySettingPropertyType"/>
          <element maxOccurs="unbounded" minOccurs="0" name="setConstraint"
type="sml:ConstraintSettingPropertyType"/>

```

```

        <element maxOccurs="unbounded" minOccurs="0" name="setMode"
type="sml:ModeSettingPropertyType"/>
        <element maxOccurs="unbounded" minOccurs="0" name="setStatus"
type="sml:StatusSettingPropertyType"/>
    </sequence>
</extension>
</complexContent>
</complexType>
<complexType name="SettingsPropertyType">
    <sequence minOccurs="0">
        <element ref="sml:Settings"/>
    </sequence>
    <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<complexType name="ArraySettingPropertyType">
    <sequence>
        <element name="ArrayValues">
            <complexType>
                <sequence>
                    <element name="encoding">
                        <complexType>
                            <sequence>
                                <element ref="swe:AbstractEncoding"/>
                            </sequence>
                        </complexType>
                    </element>
                    <element name="value" type="swe:EncodedValuesPropertyType"/>
                </sequence>
            </complexType>
        </element>
    </sequence>
    <attribute name="ref" type="sml:DataComponentPathPropertyType" use="required"/>
</complexType>
<complexType name="ModeSettingPropertyType">
    <simpleContent>
        <extension base="NCName">
            <attribute name="ref" type="sml:DataComponentPathPropertyType" use="required"/>
        </extension>
    </simpleContent>
</complexType>
<complexType name="ValueSettingPropertyType">
    <simpleContent>
        <extension base="token">
            <attribute name="ref" type="sml:DataComponentPathPropertyType" use="required"/>
        </extension>
    </simpleContent>
</complexType>
<complexType name="ConstraintSettingPropertyType">
    <sequence>
        <group ref="sml:Constraint"/>
    </sequence>

```

```

        </sequence>
        <attribute name="ref" type="sml:DataComponentPathPropertyType" use="required"/>
    </complexType>
    <complexType name="StatusSettingPropertyType">
        <complexContent>
            <extension base="sml:StatusType">
                <attribute name="ref" type="sml:DataComponentPathPropertyType" use="required"/>
            </extension>
        </complexContent>
    </complexType>
    <group name="Constraint">
        <choice>
            <element ref="swe:AllowedTimes"/>
            <element ref="swe:AllowedTokens"/>
            <element ref="swe:AllowedValues"/>
        </choice>
    </group>
    <complexType name="ConstraintPropertyType">
        <sequence minOccurs="0">
            <group ref="sml:Constraint"/>
        </sequence>
        <attributeGroup ref="swe:AssociationAttributeGroup"/>
    </complexType>
    <simpleType name="StatusType">
        <restriction base="string">
            <enumeration value="enabled"/>
            <enumeration value="disabled"/>
        </restriction>
    </simpleType>
    <element name="PhysicalSystem" substitutionGroup="sml:AbstractPhysicalProcess"
type="sml:PhysicalSystemType"/>
    <complexType name="PhysicalSystemType">
        <complexContent>
            <extension base="sml:AbstractPhysicalProcessType">
                <sequence>
                    <element maxOccurs="1" minOccurs="0" name="components"
type="sml:ComponentListPropertyType"/>
                    <element maxOccurs="1" minOccurs="0" name="connections"
type="sml:ConnectionListPropertyType"/>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
    <complexType name="PhysicalSystemPropertyType">
        <sequence minOccurs="0">
            <element ref="sml:PhysicalSystem"/>
        </sequence>
        <attributeGroup ref="gml:AssociationAttributeGroup"/>
        <attributeGroup ref="gml:OwnershipAttributeGroup"/>
    </complexType>

```

```

    <element name="PhysicalComponent" substitutionGroup="sml:AbstractPhysicalProcess"
type="sml:PhysicalComponentType"/>
  </element>
  <complexType name="PhysicalComponentType">
    <complexContent>
      <extension base="sml:AbstractPhysicalProcessType">
        <sequence>
          <element maxOccurs="1" minOccurs="0" name="method"
type="sml:ProcessMethodPropertyType"/>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
  <complexType name="PhysicalComponentPropertyType">
    <sequence minOccurs="0">
      <element ref="sml:PhysicalComponent"/>
    </sequence>
    <attributeGroup ref="gml:AssociationAttributeGroup"/>
    <attributeGroup ref="gml:OwnershipAttributeGroup"/>
  </complexType>
  <element abstract="true" name="AbstractPhysicalProcess"
substitutionGroup="sml:AbstractProcess" type="sml:AbstractPhysicalProcessType"/>
  <complexType abstract="true" name="AbstractPhysicalProcessType">
    <complexContent>
      <extension base="sml:AbstractProcessType">
        <sequence>
          <element maxOccurs="1" minOccurs="0" name="attachedTo"
type="gml:ReferenceType">
            <annotation>
              <appinfo>
<gml:targetElement>sml:AbstractPhysicalProcess</gml:targetElement>
            </appinfo>
          </annotation>
        </element>
        <element maxOccurs="unbounded" minOccurs="0" name="localReferenceFrame">
          <complexType>
            <sequence>
              <element ref="sml:SpatialFrame"/>
            </sequence>
          </complexType>
        </element>
        <element maxOccurs="unbounded" minOccurs="0" name="localTimeFrame">
          <complexType>
            <sequence>
              <element ref="sml:TemporalFrame"/>
            </sequence>
          </complexType>
        </element>
        <element maxOccurs="unbounded" minOccurs="0" name="position"
type="sml:PositionUnionPropertyType"/>

```

```

        <element maxOccurs="unbounded" minOccurs="0" name="timePosition"
type="swe:TimePropertyType"/>
    </sequence>
</extension>
</complexContent>
</complexType>
<complexType name="AbstractPhysicalProcessPropertyType">
    <sequence minOccurs="0">
        <element ref="sml:AbstractPhysicalProcess"/>
    </sequence>
    <attributeGroup ref="gml:AssociationAttributeGroup"/>
    <attributeGroup ref="gml:OwnershipAttributeGroup"/>
</complexType>
<element name="TemporalFrame" substitutionGroup="swe:AbstractSWEIdentifiable"
type="sml:TemporalFrameType"/>
<complexType name="TemporalFrameType">
    <complexContent>
        <extension base="swe:AbstractSWEIdentifiableType">
            <sequence>
                <element name="origin" type="string"/>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<complexType name="TemporalFramePropertyType">
    <sequence minOccurs="0">
        <element ref="sml:TemporalFrame"/>
    </sequence>
    <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<element name="SpatialFrame" substitutionGroup="swe:AbstractSWEIdentifiable"
type="sml:SpatialFrameType"/>
<complexType name="SpatialFrameType">
    <complexContent>
        <extension base="swe:AbstractSWEIdentifiableType">
            <sequence>
                <element name="origin" type="string"/>
                <element maxOccurs="unbounded" minOccurs="1" name="axis">
                    <complexType>
                        <simpleContent>
                            <extension base="string">
                                <attribute name="name" type="NCName" use="required"/>
                            </extension>
                        </simpleContent>
                    </complexType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>

```

```

<complexType name="SpatialFramePropertyType">
  <sequence minOccurs="0">
    <element ref="sml:SpatialFrame"/>
  </sequence>
  <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<group name="PositionUnion">
  <choice>
    <element ref="swe:Text"/>
    <element ref="gml:Point"/>
    <element ref="swe:Vector"/>
    <element ref="swe:DataRecord"/>
    <element ref="swe:DataArray"/>
    <element ref="sml:AbstractProcess"/>
  </choice>
</group>
<complexType name="PositionUnionPropertyType">
  <sequence minOccurs="0">
    <group ref="sml:PositionUnion"/>
  </sequence>
  <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<element name="AggregateProcess" substitutionGroup="sml:AbstractProcess"
type="sml:AggregateProcessType"/>
<complexType name="AggregateProcessType">
  <complexContent>
    <extension base="sml:AbstractProcessType">
      <sequence>
        <element maxOccurs="1" minOccurs="0" name="components"
type="sml:ComponentListPropertyType"/>
        <element maxOccurs="1" minOccurs="0" name="connections"
type="sml:ConnectionListPropertyType"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
<complexType name="AggregateProcessPropertyType">
  <sequence minOccurs="0">
    <element ref="sml:AggregateProcess"/>
  </sequence>
  <attributeGroup ref="gml:AssociationAttributeGroup"/>
  <attributeGroup ref="gml:OwnershipAttributeGroup"/>
</complexType>
<element name="ConnectionList" substitutionGroup="swe:AbstractSWE"
type="sml:ConnectionListType"/>
<complexType name="ConnectionListType">
  <complexContent>
    <extension base="swe:AbstractSWEType">
      <sequence>
        <element maxOccurs="unbounded" minOccurs="1" name="connection">

```

```

        <complexType>
            <sequence>
                <element ref="sml:Link"/>
            </sequence>
        </complexType>
    </element>
</sequence>
</extension>
</complexContent>
</complexType>
<complexType name="ConnectionListPropertyType">
    <sequence minOccurs="0">
        <element ref="sml:ConnectionList"/>
    </sequence>
    <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<element name="ComponentList" substitutionGroup="swe:AbstractSWE"
type="sml:ComponentListType"/>
<complexType name="ComponentListType">
    <complexContent>
        <extension base="swe:AbstractSWEType">
            <sequence>
                <element maxOccurs="unbounded" minOccurs="1" name="component">
                    <complexType>
                        <complexContent>
                            <extension base="sml:AbstractProcessPropertyType">
                                <attribute name="name" type="NCName" use="required"/>
                            </extension>
                        </complexContent>
                    </complexType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<complexType name="ComponentListPropertyType">
    <sequence minOccurs="0">
        <element ref="sml:ComponentList"/>
    </sequence>
    <attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
<element name="Link" substitutionGroup="gml:AbstractObject" type="sml:LinkType"/>
<complexType name="LinkType">
    <sequence>
        <element name="source" type="sml:DataComponentRefPropertyType"/>
        <element name="destination" type="sml:DataComponentRefPropertyType"/>
    </sequence>
    <attribute ref="gml:id" use="optional"/>
</complexType>
<complexType name="LinkPropertyType">

```



```
<sequence minOccurs="0">
  <element ref="sml:Link"/>
</sequence>
<attributeGroup ref="swe:AssociationAttributeGroup"/>
</complexType>
</schema>
```

4.4.1.4.2. Protocol Requirements

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<wsdl:definitions targetNamespace="http://www.opengis.net/swes/2.0/wsdl"
  xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:swes="http://www.opengis.net/swes/2.0"
  xmlns:swesw="http://www.opengis.net/swes/2.0/wsdl"
  xmlns:ows="http://www.opengis.net/ows/1.1">
  <wsdl:types>
    <xsd:schema targetNamespace="http://www.opengis.net/swes/2.0">
      <xsd:include schemaLocation="http://schemas.opengis.net/swes/2.0/swes.xsd"/>
    </xsd:schema>
  </wsdl:types>
  <wsdl:message name="DeleteSensorRequestMessage">
    <wsdl:part name="body" element="swes:DeleteSensor"/>
  </wsdl:message>
  <wsdl:message name="DeleteSensorResponseMessage">
    <wsdl:part name="body" element="swes:DeleteSensorResponse"/>
  </wsdl:message>
  <wsdl:message name="DescribeSensorRequestMessage">
    <wsdl:part name="body" element="swes:DescribeSensor"/>
  </wsdl:message>
  <wsdl:message name="DescribeSensorResponseMessage">
    <wsdl:part name="body" element="swes:DescribeSensorResponse"/>
  </wsdl:message>
  <wsdl:message name="InsertSensorRequestMessage">
    <wsdl:part name="body" element="swes:InsertSensor"/>
  </wsdl:message>
  <wsdl:message name="InsertSensorResponseMessage">
    <wsdl:part name="body" element="swes:InsertSensorResponse"/>
  </wsdl:message>
  <wsdl:message name="UpdateSensorDescriptionRequestMessage">
    <wsdl:part name="body" element="swes:UpdateSensorDescription"/>
  </wsdl:message>
  <wsdl:message name="UpdateSensorDescriptionResponseMessage">
    <wsdl:part name="body" element="swes:UpdateSensorDescriptionResponse"/>
  </wsdl:message>
```

```
</wsdl:message>
<wsdl:message name="ExceptionMessage">
  <wsdl:part name="fault" element="ows:Exception"/>
</wsdl:message>
<wsdl:portType name="SensorProviderInterface">
  <wsdl:operation name="DescribeSensor">
    <wsdl:input wsam:Action="http://www.opengis.net/swes/2.0/DescribeSensor"
message="swesw:DescribeSensorRequestMessage"/>
    <wsdl:output wsam:Action="http://www.opengis.net/swes/2.0/DescribeSensorResponse"
message="swesw:DescribeSensorResponseMessage"/>
    <wsdl:fault name="OperationNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="MissingParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="InvalidParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="OptionNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="NoApplicableCodeException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="InvalidRequestException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="RequestExtensionNotSupportedException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:portType name="SensorDescriptionManagerInterface">
  <wsdl:operation name="UpdateSensorDescription">
    <wsdl:input wsam:Action="http://www.opengis.net/swes/2.0/UpdateSensorDescription"
message="swesw:UpdateSensorDescriptionRequestMessage"/>
    <wsdl:output wsam:Action="http://www.opengis.net/swes/2.0/UpdateSensorDescriptionResponse"
message="swesw:UpdateSensorDescriptionResponseMessage"/>
    <wsdl:fault name="OperationNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="MissingParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="InvalidParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="OptionNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="NoApplicableCodeException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="InvalidRequestException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="RequestExtensionNotSupportedException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:portType name="SensorInsertionInterface">
  <wsdl:operation name="InsertSensor">
    <wsdl:input wsam:Action="http://www.opengis.net/swes/2.0/InsertSensor"
message="swesw:InsertSensorRequestMessage"/>
```

```
<wsdl:output wsam:Action="http://www.opengis.net/swes/2.0/InsertSensorResponse"
message="swesw:InsertSensorResponseMessage"/>
<wsdl:fault name="OperationNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
<wsdl:fault name="MissingParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
<wsdl:fault name="InvalidParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
<wsdl:fault name="OptionNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
<wsdl:fault name="NoApplicableCodeException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
<wsdl:fault name="InvalidRequestException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
<wsdl:fault name="RequestExtensionNotSupportedException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
</wsdl:operation>
</wsdl:portType>
<wsdl:portType name="SensorDeletionInterface">
  <wsdl:operation name="DeleteSensor">
    <wsdl:input wsam:Action="http://www.opengis.net/swes/2.0/DeleteSensor"
message="swesw:DeleteSensorRequestMessage"/>
    <wsdl:output wsam:Action="http://www.opengis.net/swes/2.0/DeleteSensorResponse"
message="swesw:DeleteSensorResponseMessage"/>
    <wsdl:fault name="OperationNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="MissingParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="InvalidParameterValueException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="OptionNotSupportedException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="NoApplicableCodeException"
wsam:Action="http://www.opengis.net/ows/1.1/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="InvalidRequestException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
    <wsdl:fault name="RequestExtensionNotSupportedException"
wsam:Action="http://www.opengis.net/swes/2.0/Exception" message="swesw:ExceptionMessage"/>
  </wsdl:operation>
</wsdl:portType>
</wsdl:definitions>
```