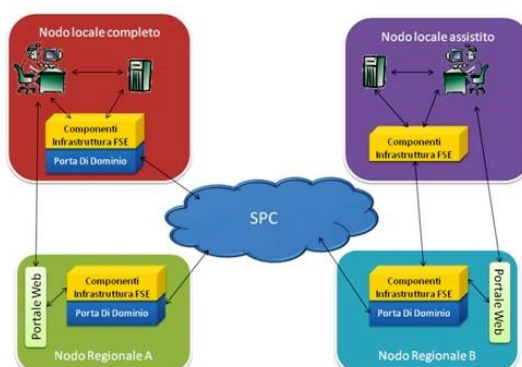


**Progetto**  
**"Infrastruttura Tecnologica del Fascicolo Sanitario Elettronico"**



**InFSE:**

**Infrastruttura tecnologica del  
Fascicolo Sanitario Elettronico**

***Specifiche WSDL***

**eGov 2012 - Obiettivo Salute**

**Luglio 2012**

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# Presentazione del documento

## Parte I – Contesto di riferimento

Nella prima parte del documento è definito il contesto di riferimento

### Capitolo 1: Obiettivi del documento

L'obiettivo è di indicare le interfacce WSDL di riferimento per InFSE.

## Parte II – Infrastruttura tecnologica del Fascicolo Sanitario Elettronico

Nella seconda parte del documento sono definite le interfacce WSDL per le componenti dell'Infrastruttura tecnologica del Fascicolo Sanitario Elettronico

### Capitolo 2: Interfaccia di Accesso

Presentazione delle interfacce WSDL della componente Interfaccia di Accesso.

### Capitolo 3: Registro Indice Federato

Presentazione delle interfacce WSDL della componente Registro Indice Federato.

### Capitolo 4: Gestore Gerarchico degli Eventi

Presentazione delle interfacce WSDL della componente Gestore Gerarchico degli Eventi.

### Capitolo 5: Gestore dei Documenti

Presentazione delle interfacce WSDL della componente Gestore dei Documenti.

# 1 Obiettivi del documento

Il presente documento ha l'obiettivo di presentare una formalizzazione in linguaggio WSDL delle interfacce delle componenti dell'Infrastruttura InFSE.

Per ciascuna interfaccia, sono riportati:

- una descrizione;
- una rappresentazione UML, che mostra le operazioni con i parametri di ingresso/uscita;
- la codifica in linguaggio WSDL.

Le interfacce WSDL fanno riferimento alle seguenti componenti del modello InFSE:

- *Interfaccia di Accesso;*
- *Registro Indice Federato;*
- *Gestore Gerarchico degli Eventi;*
- *Gestore dei Documenti.*

Le funzionalità offerte e le architetture delle componenti sono descritte in dettaglio nel documento "InFSE - Linee guida" [1], mentre la specifica delle loro interfacce è illustrata nel documento "InFSE - Specifica delle interfacce" [2].

Le interfacce WSDL riportate in questo documento sono rappresentate in XML e rappresentano una guida all'implementazione.

La specifica WSDL di ogni interfaccia rispecchia la seguente struttura:

- **Types:** definisce i tipi di dato utilizzati;
- **Message:** definisce i messaggi utilizzati;
- **PortType:** definisce le operazioni realizzate;
- **Binding:** definisce i protocolli di comunicazione utilizzati;
- **Service:** specifica gli endpoint per i protocolli di comunicazione.

## 1.1 Versioning

<b>Titolo</b>	InFSE – Specifiche WSDL
<b>Data</b>	30/07/2012
<b>Versione</b>	1.1
<b>Stato</b>	DEF

Storia delle principali revisioni:

<b>Versione</b>	<b>Status</b>	<b>Data</b>	<b>Descrizione Modifica</b>
1.1	DEF	30/07/2012	Aggiornate interfacce WSDL. Commenti minori.
1.0	DEF	26/10/2010	Prima versione rilasciata.

## 2 Interfaccia di Accesso

In questa sezione sono presentate le interfacce WSDL della componente *Interfaccia di Accesso*, ossia:

- *IDocument*;
- *IEntry*;
- *IRegistryFederation*;
- *IEvent*;
- *IBrokerFederation*;

### 2.1 Interfaccia IDocument

*IDocument* è l'interfaccia per l'accesso ed il caricamento di documenti nel FSE.

In Figura 1 è riportata una rappresentazione UML dell'interfaccia.

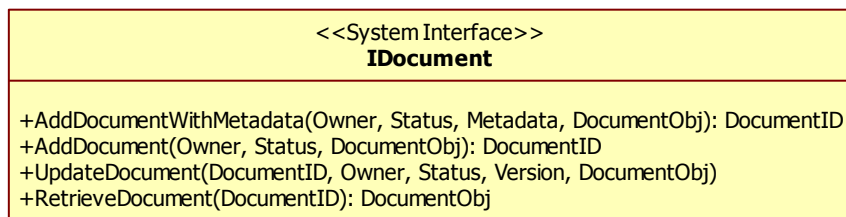


Figura 1. Interfaccia IDocument

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IDocument*, con i relativi schemi XSD.

#### 2.1.1 IDocumentImpl.wsdl

```
<?xml version='1.0' encoding='UTF-8'?>
<definitions xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
```



```

xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IDocument/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.xmlsoap.org/wsd/"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IDocument/"
name="IDocumentImpl">
  <types>
    <xsd:schema>
      <xsd:import namespace="urn:oasis:names:tc:ebxml-
regrep:xsd:rim:3.0" schemaLocation="IDocumentImpl.xsd_1.xsd" />
    </xsd:schema>
    <xsd:schema>
      <xsd:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IDocumentImpl.xsd_2.xsd" />
    </xsd:schema>
    <xsd:schema>
      <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IDocument/"
schemaLocation="IDocumentImpl.xsd_3.xsd" />
    </xsd:schema>
  </types>
  <message name="addDocumentWithMetadata">
    <part name="parameters" element="tns:addDocumentWithMetadata" />
  </message>
  <message name="addDocumentWithMetadataResponse">
    <part name="parameters"
element="tns:addDocumentWithMetadataResponse" />
  </message>
  <message name="addDocument">
    <part name="parameters" element="tns:addDocument" />
  </message>
  <message name="addDocumentResponse">
    <part name="parameters" element="tns:addDocumentResponse" />
  </message>
  <message name="updateDocument">
    <part name="parameters" element="tns:updateDocument" />
  </message>
  <message name="updateDocumentResponse">
    <part name="parameters" element="tns:updateDocumentResponse" />
  </message>
  <message name="retrieveDocument">
    <part name="parameters" element="tns:retrieveDocument" />
  </message>
  <message name="retrieveDocumentResponse">
    <part name="parameters" element="tns:retrieveDocumentResponse"
/>
/>

```

```

    </message>
    <portType name="IDocumentImpl">
      <operation name="addDocumentWithMetadata">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IDocument/IDoc
umentImpl/addDocumentWithMetadataRequest"
message="tns:addDocumentWithMetadata" />
          <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IDocument/IDoc
umentImpl/addDocumentWithMetadataResponse"
message="tns:addDocumentWithMetadataResponse" />
        </operation>
      <operation name="addDocument">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IDocument/IDoc
umentImpl/addDocumentRequest" message="tns:addDocument" />
          <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IDocument/IDoc
umentImpl/addDocumentResponse" message="tns:addDocumentResponse" />
        </operation>
      <operation name="updateDocument">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IDocument/IDoc
umentImpl/updateDocumentRequest" message="tns:updateDocument" />
          <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IDocument/IDoc
umentImpl/updateDocumentResponse" message="tns:updateDocumentResponse"
/>
        </operation>
      <operation name="retrieveDocument">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IDocument/IDoc
umentImpl/retrieveDocumentRequest" message="tns:retrieveDocument" />
          <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IDocument/IDoc

```

```

umentImpl/retrieveDocumentResponse"
message="tns:retrieveDocumentResponse" />
    </operation>
</portType>
<binding name="IDocumentImplPortBinding" type="tns:IDocumentImpl">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document" />
    <operation name="addDocumentWithMetadata">
        <soap:operation soapAction="" />
        <input>
            <soap:body use="literal" />
        </input>
        <output>
            <soap:body use="literal" />
        </output>
    </operation>
    <operation name="addDocument">
        <soap:operation soapAction="" />
        <input>
            <soap:body use="literal" />
        </input>
        <output>
            <soap:body use="literal" />
        </output>
    </operation>
    <operation name="updateDocument">
        <soap:operation soapAction="" />
        <input>
            <soap:body use="literal" />
        </input>
        <output>
            <soap:body use="literal" />
        </output>
    </operation>
    <operation name="retrieveDocument">
        <soap:operation soapAction="" />
        <input>
            <soap:body use="literal" />
        </input>
        <output>
            <soap:body use="literal" />
        </output>
    </operation>
</binding>
<service name="IDocumentImpl">
    <port name="IDocumentImplPort"
binding="tns:IDocumentImplPortBinding">
        <soap:address location="REPLACE_WITH_ACTUAL_URL" />
    </port>
</service>
</definitions>

```

## 2.1.2 IDocumentImpl.xsd\_1.xsd

```
<?xml version='1.0' encoding='UTF-8'?>
<xs:schema
xmlns:ns1="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IDocument/"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0">

  <xs:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IDocument/"
schemaLocation="IDocumentImpl.xsd_3.xsd" />

  <xs:element name="Action" type="ns1:ActionType" />
  <xs:element name="Address" type="ns1:PostalAddressType" />
  <xs:element name="AdhocQuery" type="ns1:AdhocQueryType" />
  <xs:element name="Association" type="ns1:AssociationType1" />
  <xs:element name="AuditableEvent" type="ns1:AuditableEventType" />
  <xs:element name="Classification" type="ns1:ClassificationType" />
  <xs:element name="ClassificationNode"
type="ns1:ClassificationNodeType" />
  <xs:element name="ClassificationScheme"
type="ns1:ClassificationSchemeType" />
  <xs:element name="Description" type="ns1:InternationalStringType" />
  <xs:element name="EmailAddress" type="ns1:EmailAddressType" />
  <xs:element name="ExternalIdentifier"
type="ns1:ExternalIdentifierType" />
  <xs:element name="ExternalLink" type="ns1:ExternalLinkType" />
  <xs:element name="ExtrinsicObject" type="ns1:ExtrinsicObjectType" />
  <xs:element name="Federation" type="ns1:FederationType" />
  <xs:element name="Identifiable" type="ns1:IdentifiableType" />
  <xs:element name="InternationalString"
type="ns1:InternationalStringType" />
  <xs:element name="LocalizedString" type="ns1:LocalizedStringType" />
  <xs:element name="Name" type="ns1:InternationalStringType" />
  <xs:element name="Notification" type="ns1:NotificationType" />
  <xs:element name="NotifyAction" type="ns1:NotifyActionType" />
  <xs:element name="ObjectRef" type="ns1:ObjectRefType" />
  <xs:element name="ObjectRefList" type="ns1:ObjectRefListType" />
  <xs:element name="Organization" type="ns1:OrganizationType" />
  <xs:element name="Person" type="ns1:PersonType" />
  <xs:element name="PersonName" type="ns1:PersonNameType" />
  <xs:element name="PostalAddress" type="ns1:PostalAddressType" />
  <xs:element name="QueryExpression" type="ns1:QueryExpressionType" />
  <xs:element name="Registry" type="ns1:RegistryType" />
  <xs:element name="RegistryObject" type="ns1:RegistryObjectType" />
```

```

    <xs:element name="RegistryObjectList"
type="ns1:RegistryObjectListType" />
    <xs:element name="RegistryPackage" type="ns1:RegistryPackageType" />
    <xs:element name="Service" type="ns1:ServiceType" />
    <xs:element name="ServiceBinding" type="ns1:ServiceBindingType" />
    <xs:element name="Slot" type="ns1:SlotType1" />
    <xs:element name="SlotList" type="ns1:SlotListType" />
    <xs:element name="SpecificationLink" type="ns1:SpecificationLinkType"
/>
    <xs:element name="Subscription" type="ns1:SubscriptionType" />
    <xs:element name="TelephoneNumber" type="ns1:TelephoneNumberType" />
    <xs:element name="UsageDescription" type="ns1:InternationalStringType"
/>
    <xs:element name="UsageParameter" type="xs:string" />
    <xs:element name="User" type="ns1:UserType" />
    <xs:element name="Value" type="xs:string" />
    <xs:element name="ValueList" type="ns1:ValueListType" />
</xs:schema>

```

### 2.1.3 IDocumentImpl.xsd\_2.xsd

```

<?xml version='1.0' encoding='UTF-8'?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.w3.org/XML/1998/namespace">
    <xs:attribute name="lang" type="xs:string" />
</xs:schema>

```

### 2.1.4 IDocumentImpl.xsd\_3.xsd

```

<?xml version='1.0' encoding='UTF-8'?>
<xs:schema
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IDocument/"
xmlns:ns1="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IDocument/">

    <xs:import namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
schemaLocation="IDocumentImpl.xsd_1.xsd" />

    <xs:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IDocumentImpl.xsd_2.xsd" />

```

```

    <xs:element name="SubmitObjectsRequest"
type="tns:SubmitObjectsRequest" />

    <xs:element name="addDocument" type="tns:addDocument" />

    <xs:element name="addDocumentResponse" type="tns:addDocumentResponse"
/>

    <xs:element name="addDocumentWithMetadata"
type="tns:addDocumentWithMetadata" />

    <xs:element name="addDocumentWithMetadataResponse"
type="tns:addDocumentWithMetadataResponse" />

    <xs:element name="retrieveDocument" type="tns:retrieveDocument" />

    <xs:element name="retrieveDocumentResponse"
type="tns:retrieveDocumentResponse" />

    <xs:element name="updateDocument" type="tns:updateDocument" />

    <xs:element name="updateDocumentResponse"
type="tns:updateDocumentResponse" />

    <xs:complexType name="updateDocument">
        <xs:sequence>
            <xs:element name="arg0" type="tns:documentIdentifier"
minOccurs="0" />
            <xs:element name="arg1" type="xs:string" minOccurs="0" />
            <xs:element name="arg2" type="xs:string" minOccurs="0" />
            <xs:element name="arg3" type="xs:string" minOccurs="0" />
            <xs:element name="arg4" type="tns:document" minOccurs="0" />
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="documentIdentifier">
        <xs:sequence>
            <xs:element name="documentID" type="xs:string" minOccurs="0" />
            <xs:element name="IDocumentMgtUrl" type="xs:string" minOccurs="0"
/>
            <xs:element name="IDocumentUrl" type="xs:string" minOccurs="0" />
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="document">
        <xs:sequence>
            <xs:element name="document" type="xs:base64Binary" minOccurs="0"
/>
            <xs:element name="documentName" type="xs:string" minOccurs="0" />
            <xs:element name="documentType" type="xs:string" minOccurs="0" />
        </xs:sequence>
    </xs:complexType>

```

```

        <xs:element name="styleSheet" type="xs:base64Binary" minOccurs="0"
/>
        <xs:element name="styleSheetName" type="xs:string" minOccurs="0"
/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="updateDocumentResponse">
    <xs:sequence />
</xs:complexType>

<xs:complexType name="retrieveDocument">
    <xs:sequence>
        <xs:element name="arg0" type="tns:documentIdentifier"
minOccurs="0" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="retrieveDocumentResponse">
    <xs:sequence>
        <xs:element name="return" type="tns:document" minOccurs="0" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="addDocumentWithMetadata">
    <xs:sequence>
        <xs:element name="arg0" type="xs:string" minOccurs="0" />
        <xs:element name="arg1" type="xs:string" minOccurs="0" />
        <xs:element name="arg2" type="tns:SubmitObjectsRequest"
minOccurs="0" />
        <xs:element name="arg3" type="tns:document" minOccurs="0" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="SubmitObjectsRequest">
    <xs:complexContent>
        <xs:extension base="tns:RegistryRequestType">
            <xs:sequence>
                <xs:element ref="ns1:RegistryObjectList" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="RegistryRequestType">
    <xs:sequence>
        <xs:element name="RequestSlotList" type="tns:SlotListType"
minOccurs="0" />
    </xs:sequence>
    <xs:attribute name="id" type="xs:anyURI" />
    <xs:attribute name="comment" type="xs:string" />

```

```

</xs:complexType>

<xs:complexType name="RegistryObjectListType">
  <xs:sequence>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:element ref="ns1:Identifiable" />
      <xs:element ref="ns1:Registry" />
      <xs:element ref="ns1:User" />
      <xs:element ref="ns1:RegistryPackage" />
      <xs:element ref="ns1:SpecificationLink" />
      <xs:element ref="ns1:RegistryObject" />
      <xs:element ref="ns1:AdhocQuery" />
      <xs:element ref="ns1:AuditableEvent" />
      <xs:element ref="ns1:ExternalIdentifier" />
      <xs:element ref="ns1:Person" />
      <xs:element ref="ns1:Association" />
      <xs:element ref="ns1:Federation" />
      <xs:element ref="ns1:ServiceBinding" />
      <xs:element ref="ns1:ExternalLink" />
      <xs:element ref="ns1:Subscription" />
      <xs:element ref="ns1:ObjectRef" />
      <xs:element ref="ns1:ClassificationScheme" />
      <xs:element ref="ns1:Service" />
      <xs:element ref="ns1:ClassificationNode" />
      <xs:element ref="ns1:ExtrinsicObject" />
      <xs:element ref="ns1:Organization" />
      <xs:element ref="ns1:Classification" />
    </xs:choice>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="NotificationType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="RegistryObjectList"
type="tns:RegistryObjectListType" />
      </xs:sequence>
      <xs:attribute name="subscription" type="xs:string"
use="required" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="RegistryObjectType">
  <xs:complexContent>
    <xs:extension base="tns:IdentifiableType">
      <xs:sequence>
        <xs:element name="Name" type="tns:InternationalStringType"
minOccurs="0" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```



```

        <xs:element name="Description"
type="tns:InternationalStringType" minOccurs="0" />
        <xs:element name="VersionInfo" type="tns:VersionInfoType"
minOccurs="0" />
        <xs:element name="Classification"
type="tns:ClassificationType" minOccurs="0" maxOccurs="unbounded" />
        <xs:element name="ExternalIdentifier"
type="tns:ExternalIdentifierType" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="lid" type="xs:anyURI" />
    <xs:attribute name="objectType" type="xs:string" />
    <xs:attribute name="status" type="xs:string" />
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="IdentifiableType">
    <xs:sequence>
        <xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="id" type="xs:anyURI" use="required" />
    <xs:attribute name="home" type="xs:anyURI" />
</xs:complexType>

<xs:complexType name="InternationalStringType">
    <xs:sequence>
        <xs:element name="LocalizedString" type="tns:LocalizedStringType"
minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="LocalizedStringType">
    <xs:sequence />
    <xs:attribute ref="xml:lang" />
    <xs:attribute name="charset" type="xs:anySimpleType" />
    <xs:attribute name="value" type="xs:string" use="required" />
</xs:complexType>

<xs:complexType name="VersionInfoType">
    <xs:sequence />
    <xs:attribute name="versionName" type="xs:string" />
    <xs:attribute name="comment" type="xs:string" />
</xs:complexType>

<xs:complexType name="ClassificationType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence />
            <xs:attribute name="classificationScheme" type="xs:string" />
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        <xs:attribute name="classifiedObject" type="xs:string"
use="required" />
        <xs:attribute name="classificationNode" type="xs:string" />
        <xs:attribute name="nodeRepresentation" type="xs:string" />
    </xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ExternalIdentifierType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence />
            <xs:attribute name="registryObject" type="xs:string"
use="required" />
            <xs:attribute name="identificationScheme" type="xs:string"
use="required" />
            <xs:attribute name="value" type="xs:string" use="required" />
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="SlotType1">
    <xs:sequence>
        <xs:element name="ValueList" type="tns:ValueListType" />
    </xs:sequence>
    <xs:attribute name="name" type="xs:string" use="required" />
    <xs:attribute name="slotType" type="xs:string" />
</xs:complexType>

<xs:complexType name="ValueListType">
    <xs:sequence>
        <xs:element name="Value" type="xs:string" minOccurs="0"
maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="ObjectRefType">
    <xs:complexContent>
        <xs:extension base="tns:IdentifiableType">
            <xs:sequence />
            <xs:attribute name="createReplica" type="xs:boolean" />
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="ClassificationSchemeType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:element name="ClassificationNode"
type="tns:ClassificationNodeType" minOccurs="0" maxOccurs="unbounded" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        </xs:sequence>
        <xs:attribute name="isInternal" type="xs:boolean" use="required"
/>
        <xs:attribute name="nodeType" type="xs:string" use="required" />
    </xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ClassificationNodeType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:element name="ClassificationNode"
type="tns:ClassificationNodeType" minOccurs="0" maxOccurs="unbounded" />
            </xs:sequence>
            <xs:attribute name="parent" type="xs:string" />
            <xs:attribute name="code" type="xs:string" />
            <xs:attribute name="path" type="xs:string" />
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="ServiceType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:element name="ServiceBinding"
type="tns:ServiceBindingType" minOccurs="0" maxOccurs="unbounded" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="ServiceBindingType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:element name="SpecificationLink"
type="tns:SpecificationLinkType" minOccurs="0" maxOccurs="unbounded" />
            </xs:sequence>
            <xs:attribute name="service" type="xs:string" use="required" />
            <xs:attribute name="accessURI" type="xs:anyURI" />
            <xs:attribute name="targetBinding" type="xs:string" />
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="SpecificationLinkType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>

```

```

        <xs:element name="UsageDescription"
type="tns:InternationalStringType" minOccurs="0" />
        <xs:element name="UsageParameter" type="xs:string"
minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="serviceBinding" type="xs:string"
use="required" />
    <xs:attribute name="specificationObject" type="xs:string"
use="required" />
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="AssociationType1">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence />
            <xs:attribute name="associationType" type="xs:string"
use="required" />
            <xs:attribute name="sourceObject" type="xs:string"
use="required" />
            <xs:attribute name="targetObject" type="xs:string"
use="required" />
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="ExtrinsicObjectType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:element name="ContentVersionInfo"
type="tns:VersionInfoType" minOccurs="0" />
            </xs:sequence>
            <xs:attribute name="mimeType" type="xs:string" />
            <xs:attribute name="isOpaque" type="xs:boolean" />
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="OrganizationType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:element name="Address" type="tns:PostalAddressType"
minOccurs="0" maxOccurs="unbounded" />
                <xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded" />
                <xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        <xs:attribute name="parent" type="xs:string" />
        <xs:attribute name="primaryContact" type="xs:string" />
    </xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="PostalAddressType">
    <xs:sequence />
    <xs:attribute name="city" type="xs:string" />
    <xs:attribute name="country" type="xs:string" />
    <xs:attribute name="postalCode" type="xs:string" />
    <xs:attribute name="stateOrProvince" type="xs:string" />
    <xs:attribute name="street" type="xs:string" />
    <xs:attribute name="streetNumber" type="xs:string" />
</xs:complexType>

<xs:complexType name="TelephoneNumberType">
    <xs:sequence />
    <xs:attribute name="areaCode" type="xs:string" />
    <xs:attribute name="countryCode" type="xs:string" />
    <xs:attribute name="extension" type="xs:string" />
    <xs:attribute name="number" type="xs:string" />
    <xs:attribute name="phoneType" type="xs:string" />
</xs:complexType>

<xs:complexType name="EmailAddressType">
    <xs:sequence />
    <xs:attribute name="address" type="xs:string" use="required" />
    <xs:attribute name="type" type="xs:string" />
</xs:complexType>

<xs:complexType name="AdhocQueryType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:element name="QueryExpression"
type="tns:QueryExpressionType" minOccurs="0" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="QueryExpressionType" mixed="true">
    <xs:sequence>
        <xs:any processContents="lax" namespace="##other" minOccurs="0"
maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="queryLanguage" type="xs:string" use="required"
/>
</xs:complexType>

```

```

<xs:complexType name="RegistryType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence />
      <xs:attribute name="operator" type="xs:string" use="required" />
      <xs:attribute name="specificationVersion" type="xs:string"
use="required" />
      <xs:attribute name="replicationSyncLatency" type="xs:duration"
/>
      <xs:attribute name="catalogingLatency" type="xs:duration" />
      <xs:attribute name="conformanceProfile" type="xs:string" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="FederationType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence />
      <xs:attribute name="replicationSyncLatency" type="xs:duration"
/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="RegistryPackageType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="RegistryObjectList"
type="tns:RegistryObjectListType" minOccurs="0" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="ExternalLinkType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence />
      <xs:attribute name="externalURI" type="xs:anyURI" use="required"
/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="AuditableEventType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>

```

```

        <xs:element name="affectedObjects"
type="tns:ObjectRefListType" />
    </xs:sequence>
    <xs:attribute name="eventType" type="xs:string" use="required"
/>
    <xs:attribute name="timestamp" type="xs:dateTime" use="required"
/>
    <xs:attribute name="user" type="xs:string" use="required" />
    <xs:attribute name="requestId" type="xs:string" use="required"
/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ObjectRefListType">
    <xs:sequence>
        <xs:element name="ObjectRef" type="tns:ObjectRefType"
minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="SubscriptionType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:choice minOccurs="0" maxOccurs="unbounded">
                    <xs:element ref="ns1:Action" />
                    <xs:element ref="ns1:NotifyAction" />
                </xs:choice>
            </xs:sequence>
            <xs:attribute name="selector" type="xs:string" use="required" />
            <xs:attribute name="startTime" type="xs:dateTime" />
            <xs:attribute name="endTime" type="xs:dateTime" />
            <xs:attribute name="notificationInterval" type="xs:duration" />
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="PersonType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:element name="Address" type="tns:PostalAddressType"
minOccurs="0" maxOccurs="unbounded" />
                <xs:element name="PersonName" type="tns:PersonNameType"
minOccurs="0" />
                <xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded" />
                <xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

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

<xs:complexType name="PersonNameType">
    <xs:sequence />
    <xs:attribute name="firstName" type="xs:string" />
    <xs:attribute name="middleName" type="xs:string" />
    <xs:attribute name="lastName" type="xs:string" />
</xs:complexType>

<xs:complexType name="UserType">
    <xs:complexContent>
        <xs:extension base="tns:PersonType">
            <xs:sequence />
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="SlotListType">
    <xs:sequence>
        <xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="TelephoneNumberListType">
    <xs:sequence>
        <xs:element name="TelephoneNumber" type="tns:TelephoneNumberType"
minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="NotifyActionType">
    <xs:complexContent>
        <xs:extension base="tns:ActionType">
            <xs:sequence />
            <xs:attribute name="notificationOption" type="xs:string" />
            <xs:attribute name="endPoint" type="xs:anyURI" use="required" />
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="ActionType" abstract="true">
    <xs:sequence />
</xs:complexType>

<xs:complexType name="addDocumentWithMetadataResponse">
    <xs:sequence>
        <xs:element name="return" type="tns:documentIdentifier"
minOccurs="0" />
    </xs:sequence>
</xs:complexType>

```



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

  <xs:complexType name="addDocument">
    <xs:sequence>
      <xs:element name="arg0" type="xs:string" minOccurs="0" />
      <xs:element name="arg1" type="xs:string" minOccurs="0" />
      <xs:element name="arg2" type="tns:document" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="addDocumentResponse">
    <xs:sequence>
      <xs:element name="return" type="tns:documentIdentifier"
minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

## 2.2 Interfaccia IEntry

*IEntry* è l'interfaccia per la gestione dei riferimenti ai documenti nei registri appartenenti alla federazione.

In Figura 2 è riportata una rappresentazione UML dell'interfaccia.

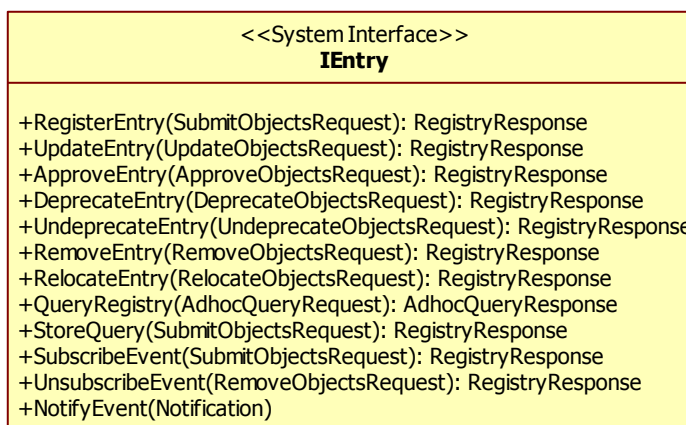


Figura 2. Interfaccia IEntry

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IEntry*, con i relativi schemi XSD.

### 2.2.1 IEntryImpl.wsdl

```
<?xml version='1.0' encoding='UTF-8'?>
<definitions xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-
200401-wss-wssecurity-utility-1.0.xsd"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IEntry/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.xmlsoap.org/wsdl/"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IEntry/"
name="IEntryImpl">
  <types>
```

```

    <xsd:schema>
      <xsd:import namespace="urn:oasis:names:tc:ebxml-
regrep:xsd:rim:3.0" schemaLocation="IEntryImpl.xsd_1.xsd" />
    </xsd:schema>
    <xsd:schema>
      <xsd:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IEntryImpl.xsd_2.xsd" />
    </xsd:schema>
    <xsd:schema>
      <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-
e-e-innovazionetecnologica/attivita/tse/InfSE/repository/wsd/IEntry/"
schemaLocation="IEntryImpl.xsd_3.xsd" />
    </xsd:schema>
  </types>
  <message name="registerEntry">
    <part name="parameters" element="tns:registerEntry" />
  </message>
  <message name="registerEntryResponse">
    <part name="parameters" element="tns:registerEntryResponse" />
  </message>
  <message name="updateEntry">
    <part name="parameters" element="tns:updateEntry" />
  </message>
  <message name="updateEntryResponse">
    <part name="parameters" element="tns:updateEntryResponse" />
  </message>
  <message name="removeEntry">
    <part name="parameters" element="tns:removeEntry" />
  </message>
  <message name="removeEntryResponse">
    <part name="parameters" element="tns:removeEntryResponse" />
  </message>
  <message name="approveEntry">
    <part name="parameters" element="tns:approveEntry" />
  </message>
  <message name="approveEntryResponse">
    <part name="parameters" element="tns:approveEntryResponse" />
  </message>
  <message name="deprecateEntry">
    <part name="parameters" element="tns:deprecateEntry" />
  </message>
  <message name="deprecateEntryResponse">
    <part name="parameters" element="tns:deprecateEntryResponse" />
  </message>
  <message name="relocateEntry">
    <part name="parameters" element="tns:relocateEntry" />
  </message>
  <message name="relocateEntryResponse">
    <part name="parameters" element="tns:relocateEntryResponse" />
  </message>

```

```

<message name="undeprecateEntry">
  <part name="parameters" element="tns:undeprecateEntry" />
</message>
<message name="undeprecateEntryResponse">
  <part name="parameters" element="tns:undeprecateEntryResponse"
/>
</message>
<message name="notifyEvent">
  <part name="parameters" element="tns:notifyEvent" />
</message>
<message name="notifyEventResponse">
  <part name="parameters" element="tns:notifyEventResponse" />
</message>
<message name="subscribeEvent">
  <part name="parameters" element="tns:subscribeEvent" />
</message>
<message name="subscribeEventResponse">
  <part name="parameters" element="tns:subscribeEventResponse" />
</message>
<message name="unsubscribeEvent">
  <part name="parameters" element="tns:unsubscribeEvent" />
</message>
<message name="unsubscribeEventResponse">
  <part name="parameters" element="tns:unsubscribeEventResponse" />
</message>
<message name="storeQuery">
  <part name="parameters" element="tns:storeQuery" />
</message>
<message name="storeQueryResponse">
  <part name="parameters" element="tns:storeQueryResponse" />
</message>
<message name="queryRegistry">
  <part name="parameters" element="tns:queryRegistry" />
</message>
<message name="queryRegistryResponse">
  <part name="parameters" element="tns:queryRegistryResponse" />
</message>
<portType name="IEntryImpl">
  <operation name="registerEntry">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IEntry/IEntryI
mpl/registerEntryRequest" message="tns:registerEntry" />
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IEntry/IEntryI
mpl/registerEntryResponse" message="tns:registerEntryResponse" />
    </operation>
  <operation name="updateEntry">

```

```

    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEEntry/IEEntryI
mpl/updateEntryRequest" message="tns:updateEntry" />
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEEntry/IEEntryI
mpl/updateEntryResponse" message="tns:updateEntryResponse" />
    </operation>
    <operation name="removeEntry">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEEntry/IEEntryI
mpl/removeEntryRequest" message="tns:removeEntry" />
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEEntry/IEEntryI
mpl/removeEntryResponse" message="tns:removeEntryResponse" />
    </operation>
    <operation name="approveEntry">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEEntry/IEEntryI
mpl/approveEntryRequest" message="tns:approveEntry" />
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEEntry/IEEntryI
mpl/approveEntryResponse" message="tns:approveEntryResponse" />
    </operation>
    <operation name="deprecateEntry">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEEntry/IEEntryI
mpl/deprecateEntryRequest" message="tns:deprecateEntry" />
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEEntry/IEEntryI
mpl/deprecateEntryResponse" message="tns:deprecateEntryResponse" />
    </operation>
    <operation name="relocateEntry">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-

```

```

innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEEntry/IEEntryI
mpl/relocateEntryRequest" message="tns:relocateEntry" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEEntry/IEEntryI
mpl/relocateEntryResponse" message="tns:relocateEntryResponse" />
  </operation>
  <operation name="undeprecateEntry">
  <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEEntry/IEEntryI
mpl/undeprecateEntryRequest" message="tns:undeprecateEntry" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEEntry/IEEntryI
mpl/undeprecateEntryResponse" message="tns:undeprecateEntryResponse" />
  </operation>
  <operation name="notifyEvent">
  <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEEntry/IEEntryI
mpl/notifyEventRequest" message="tns:notifyEvent" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEEntry/IEEntryI
mpl/notifyEventResponse" message="tns:notifyEventResponse" />
  </operation>
  <operation name="subscribeEvent">
  <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEEntry/IEEntryI
mpl/subscribeEventRequest" message="tns:subscribeEvent" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEEntry/IEEntryI
mpl/subscribeEventResponse" message="tns:subscribeEventResponse" />
  </operation>
  <operation name="unsubscribeEvent">
  <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEEntry/IEEntryI
mpl/unsubscribeEventRequest" message="tns:unsubscribeEvent" />

```

```

    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEntry/IEntryI
mpl/unsubscribeEventResponse" message="tns:unsubscribeEventResponse" />
    </operation>
    <operation name="storeQuery">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEntry/IEntryI
mpl/storeQueryRequest" message="tns:storeQuery" />
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEntry/IEntryI
mpl/storeQueryResponse" message="tns:storeQueryResponse" />
    </operation>
    <operation name="queryRegistry">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEntry/IEntryI
mpl/queryRegistryRequest" message="tns:queryRegistry" />
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEntry/IEntryI
mpl/queryRegistryResponse" message="tns:queryRegistryResponse" />
    </operation>
</portType>
<binding name="IEntryImplPortBinding" type="tns:IEntryImpl">
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document" />
    <operation name="registerEntry">
    <soap:operation soapAction="" />
    <input>
    <soap:body use="literal" />
    </input>
    <output>
    <soap:body use="literal" />
    </output>
    </operation>
    <operation name="updateEntry">
    <soap:operation soapAction="" />
    <input>
    <soap:body use="literal" />
    </input>
    <output>
    <soap:body use="literal" />
    </output>

```

```

</operation>
<operation name="removeEntry">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="approveEntry">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="deprecateEntry">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="relocateEntry">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="undeprecateEntry">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="notifyEvent">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>

```



```

<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="subscribeEvent">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="unsubscribeEvent">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="storeQuery">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="queryRegistry">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
</binding>
<service name="IEntryImpl">
<port name="IEntryImplPort" binding="tns:IEntryImplPortBinding">
<soap:address location="REPLACE_WITH_ACTUAL_URL" />
</port>
</service>
</definitions>

```

## 2.2.2 IEntryImpl.xsd\_1.xsd

```
<?xml version='1.0' encoding='UTF-8'?>
<xs:schema
xmlns:ns1="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-e-innovazionetecnologica/attivita/tse/InfSE/repository/wsd/IEntry/"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0">
  <xs:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-e-innovazionetecnologica/attivita/tse/InfSE/repository/wsd/IEntry/"
schemaLocation="IEntryImpl.xsd_3.xsd" />
  <xs:element name="Action" type="ns1:ActionType" />
  <xs:element name="Address" type="ns1:PostalAddressType" />
  <xs:element name="AdhocQuery" type="ns1:AdhocQueryType" />
  <xs:element name="Association" type="ns1:AssociationType1" />
  <xs:element name="AuditableEvent" type="ns1:AuditableEventType" />
  <xs:element name="Classification" type="ns1:ClassificationType" />
  <xs:element name="ClassificationNode"
type="ns1:ClassificationNodeType" />
  <xs:element name="ClassificationScheme"
type="ns1:ClassificationSchemeType" />
  <xs:element name="Description" type="ns1:InternationalStringType" />
  <xs:element name="EmailAddress" type="ns1:EmailAddressType" />
  <xs:element name="ExternalIdentifier"
type="ns1:ExternalIdentifierType" />
  <xs:element name="ExternalLink" type="ns1:ExternalLinkType" />
  <xs:element name="ExtrinsicObject" type="ns1:ExtrinsicObjectType" />
  <xs:element name="Federation" type="ns1:FederationType" />
  <xs:element name="Identifiable" type="ns1:IdentifiableType" />
  <xs:element name="InternationalString"
type="ns1:InternationalStringType" />
  <xs:element name="LocalizedString" type="ns1:LocalizedStringType" />
  <xs:element name="Name" type="ns1:InternationalStringType" />
  <xs:element name="Notification" type="ns1:NotificationType" />
  <xs:element name="NotifyAction" type="ns1:NotifyActionType" />
  <xs:element name="ObjectRef" type="ns1:ObjectRefType" />
  <xs:element name="ObjectRefList" type="ns1:ObjectRefListType" />
  <xs:element name="Organization" type="ns1:OrganizationType" />
  <xs:element name="Person" type="ns1:PersonType" />
  <xs:element name="PersonName" type="ns1:PersonNameType" />
  <xs:element name="PostalAddress" type="ns1:PostalAddressType" />
  <xs:element name="QueryExpression" type="ns1:QueryExpressionType" />
  <xs:element name="Registry" type="ns1:RegistryType" />
  <xs:element name="RegistryObject" type="ns1:RegistryObjectType" />
  <xs:element name="RegistryObjectList"
type="ns1:RegistryObjectListType" />
  <xs:element name="RegistryPackage" type="ns1:RegistryPackageType" />
  <xs:element name="Service" type="ns1:ServiceType" />
  <xs:element name="ServiceBinding" type="ns1:ServiceBindingType" />
```

```

    <xs:element name="Slot" type="ns1:SlotType1" />
<xs:element name="SlotList" type="ns1:SlotListType" />
<xs:element name="SpecificationLink" type="ns1:SpecificationLinkType" />
<xs:element name="Subscription" type="ns1:SubscriptionType" />
<xs:element name="TelephoneNumber" type="ns1:TelephoneNumberType" />
<xs:element name="UsageDescription" type="ns1:InternationalStringType"
/>
<xs:element name="UsageParameter" type="xs:string" />
<xs:element name="User" type="ns1:UserType" />
<xs:element name="Value" type="xs:string" />
<xs:element name="ValueList" type="ns1:ValueListType" />
</xs:schema>

```

### 2.2.3 IEntryImpl.xsd\_2.xsd

```

<?xml version='1.0' encoding='UTF-8'?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.w3.org/XML/1998/namespace">
    <xs:attribute name="lang" type="xs:string" />
</xs:schema>

```

### 2.2.4 IEntryImpl.xsd\_3.xsd

```

<?xml version='1.0' encoding='UTF-8'?>
<xs:schema
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-e-innovazionetecnologica/attivita/tse/InfSE/repository/wsd/IEntry/"
xmlns:ns1="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InfSE/repository/wsd/IEntry/">
    <xs:import namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
schemaLocation="IEntryImpl.xsd_1.xsd" />
    <xs:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IEntryImpl.xsd_2.xsd" />
    <xs:element name="AdhocQueryRequest" type="tns:AdhocQueryRequest" />
    <xs:element name="AdhocQueryResponse" type="tns:AdhocQueryResponse"
/>
    <xs:element name="ApproveObjectsRequest"
type="tns:ApproveObjectsRequest" />
    <xs:element name="DeprecateObjectsRequest"
type="tns:DeprecateObjectsRequest" />
    <xs:element name="RegistryError" type="tns:RegistryError" />
    <xs:element name="RegistryErrorList" type="tns:RegistryErrorList" />
    <xs:element name="RelocateObjectsRequest"
type="tns:RelocateObjectsRequest" />

```

```

    <xs:element name="RemoveObjectsRequest"
type="tns:RemoveObjectsRequest" />
    <xs:element name="StoreQueryType" type="tns:StoreQueryType" />
    <xs:element name="SubmitObjectsRequest"
type="tns:SubmitObjectsRequest" />
    <xs:element name="SubscribeEventType" type="tns:SubscribeEventType"
/>
    <xs:element name="UndeprecateObjectsRequest"
type="tns:UndeprecateObjectsRequest" />
    <xs:element name="UnsubscribeEventType"
type="tns:UnsubscribeEventType" />
    <xs:element name="UpdateObjectsRequest"
type="tns:UpdateObjectsRequest" />
    <xs:element name="approveEntry" type="tns:approveEntry" />
    <xs:element name="approveEntryResponse"
type="tns:approveEntryResponse" />
    <xs:element name="deprecateEntry" type="tns:deprecateEntry" />
    <xs:element name="deprecateEntryResponse"
type="tns:deprecateEntryResponse" />
    <xs:element name="notifyEvent" type="tns:notifyEvent" />
    <xs:element name="notifyEventResponse"
type="tns:notifyEventResponse" />
    <xs:element name="queryRegistry" type="tns:queryRegistry" />
    <xs:element name="queryRegistryResponse"
type="tns:queryRegistryResponse" />
    <xs:element name="registerEntry" type="tns:registerEntry" />
    <xs:element name="registerEntryResponse"
type="tns:registerEntryResponse" />
    <xs:element name="relocateEntry" type="tns:relocateEntry" />
    <xs:element name="relocateEntryResponse"
type="tns:relocateEntryResponse" />
    <xs:element name="removeEntry" type="tns:removeEntry" />
    <xs:element name="removeEntryResponse"
type="tns:removeEntryResponse" />
    <xs:element name="storeQuery" type="tns:storeQuery" />
    <xs:element name="storeQueryResponse" type="tns:storeQueryResponse"
/>
    <xs:element name="subscribeEvent" type="tns:subscribeEvent" />
    <xs:element name="subscribeEventResponse"
type="tns:subscribeEventResponse" />
    <xs:element name="undeprecateEntry" type="tns:undeprecateEntry" />
<xs:element name="undeprecateEntryResponse"
type="tns:undeprecateEntryResponse" />
    <xs:element name="unsubscribeEvent" type="tns:unsubscribeEvent" />
    <xs:element name="unsubscribeEventResponse"
type="tns:unsubscribeEventResponse" />
    <xs:element name="updateEntry" type="tns:updateEntry" />
    <xs:element name="updateEntryResponse" type="tns:updateEntryResponse" />
<xs:complexType name="deprecateEntry">
<xs:sequence>

```

```

<xs:element name="arg0" type="tns:DeprecateObjectsRequest" minOccurs="0"
/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="DeprecateObjectsRequest">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element ref="ns1:AdhocQuery" minOccurs="0" />
<xs:element ref="ns1:ObjectRefList" minOccurs="0" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="RegistryRequestType">
<xs:sequence>
<xs:element name="RequestSlotList" type="tns:SlotListType" minOccurs="0"
/>
</xs:sequence>
<xs:attribute name="id" type="xs:anyURI" />
<xs:attribute name="comment" type="xs:string" />
</xs:complexType>
<xs:complexType name="AdhocQueryType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="QueryExpression" type="tns:QueryExpressionType"
minOccurs="0" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="RegistryObjectType">
<xs:complexContent>
<xs:extension base="tns:IdentifiableType">
<xs:sequence>
<xs:element name="Name" type="tns:InternationalStringType" minOccurs="0"
/>
<xs:element name="Description" type="tns:InternationalStringType"
minOccurs="0" />
<xs:element name="VersionInfo" type="tns:VersionInfoType" minOccurs="0"
/>
<xs:element name="Classification" type="tns:ClassificationType"
minOccurs="0" maxOccurs="unbounded" />
<xs:element name="ExternalIdentifier" type="tns:ExternalIdentifierType"
minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="lid" type="xs:anyURI" />
<xs:attribute name="objectType" type="xs:string" />
<xs:attribute name="status" type="xs:string" />
</xs:extension>

```

```

</xs:complexContent>
</xs:complexType>
<xs:complexType name="IdentifiableType">
<xs:sequence>
<xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="id" type="xs:anyURI" use="required" />
<xs:attribute name="home" type="xs:anyURI" />
</xs:complexType>
<xs:complexType name="QueryExpressionType" mixed="true">
<xs:sequence>
<xs:any processContents="lax" namespace="##other" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="queryLanguage" type="xs:string" use="required" />
</xs:complexType>
<xs:complexType name="NotificationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="RegistryObjectList" type="tns:RegistryObjectListType"
/>
</xs:sequence>
<xs:attribute name="subscription" type="xs:string" use="required" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="RegistryObjectListType">
<xs:sequence>
<xs:choice minOccurs="0" maxOccurs="unbounded">
<xs:element ref="ns1:Identifiable" />
<xs:element ref="ns1:Registry" />
<xs:element ref="ns1:User" />
<xs:element ref="ns1:Federation" />
<xs:element ref="ns1:Person" />
<xs:element ref="ns1:ExtrinsicObject" />
<xs:element ref="ns1:Service" />
<xs:element ref="ns1:ServiceBinding" />
<xs:element ref="ns1:Association" />
<xs:element ref="ns1:Classification" />
<xs:element ref="ns1:ClassificationScheme" />
<xs:element ref="ns1:ExternalLink" />
<xs:element ref="ns1:Organization" />
<xs:element ref="ns1:RegistryPackage" />
<xs:element ref="ns1:SpecificationLink" />
<xs:element ref="ns1:Subscription" />
<xs:element ref="ns1:ObjectRef" />
<xs:element ref="ns1:AuditableEvent" />
<xs:element ref="ns1:RegistryObject" />
<xs:element ref="ns1:AdhocQuery" />

```

```

<xs:element ref="ns1:ExternalIdentifier" />
<xs:element ref="ns1:ClassificationNode" />
</xs:choice>
</xs:sequence>
</xs:complexType>
<xs:complexType name="InternationalStringType">
<xs:sequence>
<xs:element name="LocalizedString" type="tns:LocalizedStringType"
minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>
<xs:complexType name="LocalizedStringType">
<xs:sequence />
<xs:attribute ref="xml:lang" />
<xs:attribute name="charset" type="xs:anySimpleType" />
<xs:attribute name="value" type="xs:string" use="required" />
</xs:complexType>
<xs:complexType name="VersionInfoType">
<xs:sequence />
<xs:attribute name="versionName" type="xs:string" />
<xs:attribute name="comment" type="xs:string" />
</xs:complexType>
<xs:complexType name="ClassificationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence />
<xs:attribute name="classificationScheme" type="xs:string" />
<xs:attribute name="classifiedObject" type="xs:string" use="required" />
<xs:attribute name="classificationNode" type="xs:string" />
<xs:attribute name="nodeRepresentation" type="xs:string" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="ExternalIdentifierType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence />
<xs:attribute name="registryObject" type="xs:string" use="required" />
<xs:attribute name="identificationScheme" type="xs:string"
use="required" />
<xs:attribute name="value" type="xs:string" use="required" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="SlotType1">
<xs:sequence>
<xs:element name="ValueList" type="tns:ValueListType" />
</xs:sequence>
<xs:attribute name="name" type="xs:string" use="required" />
<xs:attribute name="slotType" type="xs:string" />
</xs:complexType>

```

```

<xs:complexType name="ValueListType">
  <xs:sequence>
    <xs:element name="Value" type="xs:string" minOccurs="0"
      maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ObjectRefType">
  <xs:complexContent>
    <xs:extension base="tns:IdentifiableType">
      <xs:sequence />
      <xs:attribute name="createReplica" type="xs:boolean" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ClassificationSchemeType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="ClassificationNode" type="tns:ClassificationNodeType"
          minOccurs="0" maxOccurs="unbounded" />
      </xs:sequence>
      <xs:attribute name="isInternal" type="xs:boolean" use="required" />
      <xs:attribute name="nodeType" type="xs:string" use="required" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ClassificationNodeType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="ClassificationNode" type="tns:ClassificationNodeType"
          minOccurs="0" maxOccurs="unbounded" />
      </xs:sequence>
      <xs:attribute name="parent" type="xs:string" />
      <xs:attribute name="code" type="xs:string" />
      <xs:attribute name="path" type="xs:string" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ServiceType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="ServiceBinding" type="tns:ServiceBindingType"
          minOccurs="0" maxOccurs="unbounded" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ServiceBindingType">
  <xs:complexContent>

```



```

<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="SpecificationLink" type="tns:SpecificationLinkType"
minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="service" type="xs:string" use="required" />
<xs:attribute name="accessURI" type="xs:anyURI" />
<xs:attribute name="targetBinding" type="xs:string" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="SpecificationLinkType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="UsageDescription" type="tns:InternationalStringType"
minOccurs="0" />
<xs:element name="UsageParameter" type="xs:string" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="serviceBinding" type="xs:string" use="required" />
<xs:attribute name="specificationObject" type="xs:string" use="required"
/>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="AssociationType1">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence />
<xs:attribute name="associationType" type="xs:string" use="required" />
<xs:attribute name="sourceObject" type="xs:string" use="required" />
<xs:attribute name="targetObject" type="xs:string" use="required" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="ExtrinsicObjectType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="ContentVersionInfo" type="tns:VersionInfoType"
minOccurs="0" />
</xs:sequence>
<xs:attribute name="mimeType" type="xs:string" />
<xs:attribute name="isOpaque" type="xs:boolean" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="OrganizationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">

```

```

<xs:sequence>
<xs:element name="Address" type="tns:PostalAddressType" minOccurs="0"
maxOccurs="unbounded" />
<xs:element name="TelephoneNumber" type="tns:TelephoneNumberType"
minOccurs="0" maxOccurs="unbounded" />
<xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="parent" type="xs:string" />
<xs:attribute name="primaryContact" type="xs:string" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="PostalAddressType">
<xs:sequence />
<xs:attribute name="city" type="xs:string" />
<xs:attribute name="country" type="xs:string" />
<xs:attribute name="postalCode" type="xs:string" />
<xs:attribute name="stateOrProvince" type="xs:string" />
<xs:attribute name="street" type="xs:string" />
<xs:attribute name="streetNumber" type="xs:string" />
</xs:complexType>
<xs:complexType name="TelephoneNumberType">
<xs:sequence />
<xs:attribute name="areaCode" type="xs:string" />
<xs:attribute name="countryCode" type="xs:string" />
<xs:attribute name="extension" type="xs:string" />
<xs:attribute name="number" type="xs:string" />
<xs:attribute name="phoneType" type="xs:string" />
</xs:complexType>
<xs:complexType name="EmailAddressType">
<xs:sequence />
<xs:attribute name="address" type="xs:string" use="required" />
<xs:attribute name="type" type="xs:string" />
</xs:complexType>
<xs:complexType name="RegistryType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence />
<xs:attribute name="operator" type="xs:string" use="required" />
<xs:attribute name="specificationVersion" type="xs:string"
use="required" />
<xs:attribute name="replicationSyncLatency" type="xs:duration" />
<xs:attribute name="catalogingLatency" type="xs:duration" />
<xs:attribute name="conformanceProfile" type="xs:string" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="FederationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">

```

```

<xs:sequence />
<xs:attribute name="replicationSyncLatency" type="xs:duration" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="RegistryPackageType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="RegistryObjectList" type="tns:RegistryObjectListType"
minOccurs="0" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="ExternalLinkType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence />
<xs:attribute name="externalURI" type="xs:anyURI" use="required" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="AuditableEventType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="affectedObjects" type="tns:ObjectRefListType" />
</xs:sequence>
<xs:attribute name="eventType" type="xs:string" use="required" />
<xs:attribute name="timestamp" type="xs:dateTime" use="required" />
<xs:attribute name="user" type="xs:string" use="required" />
<xs:attribute name="requestId" type="xs:string" use="required" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="ObjectRefListType">
<xs:sequence>
<xs:element name="ObjectRef" type="tns:ObjectRefType" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>
<xs:complexType name="SubscriptionType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:choice minOccurs="0" maxOccurs="unbounded">
<xs:element ref="ns1:Action" />
<xs:element ref="ns1:NotifyAction" />
</xs:choice>
</xs:sequence>

```

```

<xs:attribute name="selector" type="xs:string" use="required" />
<xs:attribute name="startTime" type="xs:dateTime" />
<xs:attribute name="endTime" type="xs:dateTime" />
<xs:attribute name="notificationInterval" type="xs:duration" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="PersonType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="Address" type="tns:PostalAddressType" minOccurs="0"
maxOccurs="unbounded" />
<xs:element name="PersonName" type="tns:PersonNameType" minOccurs="0" />
<xs:element name="TelephoneNumber" type="tns:TelephoneNumberType"
minOccurs="0" maxOccurs="unbounded" />
<xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="PersonNameType">
<xs:sequence />
<xs:attribute name="firstName" type="xs:string" />
<xs:attribute name="middleName" type="xs:string" />
<xs:attribute name="lastName" type="xs:string" />
</xs:complexType>
<xs:complexType name="UserType">
<xs:complexContent>
<xs:extension base="tns:PersonType">
<xs:sequence />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="SlotListType">
<xs:sequence>
<xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>
<xs:complexType name="TelephoneNumberListType">
<xs:sequence>
<xs:element name="TelephoneNumber" type="tns:TelephoneNumberType"
minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>
<xs:complexType name="NotifyActionType">
<xs:complexContent>
<xs:extension base="tns:ActionType">
<xs:sequence />

```

```

<xs:attribute name="notificationOption" type="xs:string" />
<xs:attribute name="endPoint" type="xs:anyURI" use="required" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="ActionType" abstract="true">
<xs:sequence />
</xs:complexType>
<xs:complexType name="deprecateEntryResponse">
<xs:sequence>
<xs:element name="return" type="tns:RegistryResponseType" minOccurs="0"
/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="RegistryResponseType">
<xs:sequence>
<xs:element name="ResponseSlotList" type="tns:SlotListType"
minOccurs="0" />
<xs:element name="RegistryErrorList" type="tns:RegistryErrorList"
minOccurs="0" />
</xs:sequence>
<xs:attribute name="status" type="xs:string" use="required" />
<xs:attribute name="requestId" type="xs:anyURI" />
</xs:complexType>
<xs:complexType name="RegistryErrorList">
<xs:sequence>
<xs:element name="RegistryError" type="tns:RegistryError"
maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="highestSeverity" type="xs:string" />
</xs:complexType>
<xs:complexType name="RegistryError">
<xs:simpleContent>
<xs:extension base="xs:string">
<xs:attribute name="codeContext" type="xs:string" use="required" />
<xs:attribute name="errorCode" type="xs:string" use="required" />
<xs:attribute name="severity" type="xs:string" />
<xs:attribute name="location" type="xs:string" />
</xs:extension>
</xs:simpleContent>
</xs:complexType>
<xs:complexType name="approveEntry">
<xs:sequence>
<xs:element name="arg0" type="tns:ApproveObjectsRequest" minOccurs="0"
/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="ApproveObjectsRequest">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>

```

```

<xs:element ref="ns1:AdhocQuery" minOccurs="0" />
<xs:element ref="ns1:ObjectRefList" minOccurs="0" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="approveEntryResponse">
<xs:sequence>
<xs:element name="return" type="tns:RegistryResponseType" minOccurs="0"
/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="storeQuery">
<xs:sequence>
<xs:element name="arg0" type="tns:StoreQueryType" minOccurs="0" />
</xs:sequence>
</xs:complexType>
<xs:complexType name="StoreQueryType">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element ref="ns1:RegistryObjectList" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="storeQueryResponse">
<xs:sequence>
<xs:element name="return" type="tns:RegistryResponseType" minOccurs="0"
/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="unsubscribeEvent">
<xs:sequence>
<xs:element name="arg0" type="tns:UnsubscribeEventType" minOccurs="0" />
</xs:sequence>
</xs:complexType>
<xs:complexType name="UnsubscribeEventType">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element ref="ns1:AdhocQuery" minOccurs="0" />
<xs:element ref="ns1:ObjectRefList" minOccurs="0" />
</xs:sequence>
<xs:attribute name="deletionScope" type="xs:string" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="unsubscribeEventResponse">
<xs:sequence>

```

```

<xs:element name="return" type="tns:RegistryResponseType" minOccurs="0"
/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="undeprecateEntry">
<xs:sequence>
<xs:element name="arg0" type="tns:UndeprecateObjectsRequest"
minOccurs="0" />
</xs:sequence>
</xs:complexType>
<xs:complexType name="UndeprecateObjectsRequest">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element ref="ns1:AdhocQuery" minOccurs="0" />
<xs:element ref="ns1:ObjectRefList" minOccurs="0" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="undeprecateEntryResponse">
<xs:sequence>
<xs:element name="return" type="tns:RegistryResponseType" minOccurs="0"
/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="relocateEntry">
<xs:sequence>
<xs:element name="arg0" type="tns:RelocateObjectsRequest" minOccurs="0"
/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="RelocateObjectsRequest">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element ref="ns1:AdhocQuery" />
<xs:element name="SourceRegistry" type="tns:ObjectRefType" />
<xs:element name="DestinationRegistry" type="tns:ObjectRefType" />
<xs:element name="OwnerAtSource" type="tns:ObjectRefType" />
<xs:element name="OwnerAtDestination" type="tns:ObjectRefType" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="relocateEntryResponse">
<xs:sequence>
<xs:element name="return" type="tns:RegistryResponseType" minOccurs="0"
/>
</xs:sequence>
</xs:complexType>

```

```

<xs:complexType name="removeEntry">
  <xs:sequence>
    <xs:element name="arg0" type="tns:RemoveObjectsRequest" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="RemoveObjectsRequest">
  <xs:complexContent>
    <xs:extension base="tns:RegistryRequestType">
      <xs:sequence>
        <xs:element ref="ns1:AdhocQuery" minOccurs="0" />
        <xs:element ref="ns1:ObjectRefList" minOccurs="0" />
      </xs:sequence>
      <xs:attribute name="deletionScope" type="xs:string" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="removeEntryResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="updateEntry">
  <xs:sequence>
    <xs:element name="arg0" type="tns:UpdateObjectsRequest" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="UpdateObjectsRequest">
  <xs:complexContent>
    <xs:extension base="tns:RegistryRequestType">
      <xs:sequence>
        <xs:element ref="ns1:RegistryObjectList" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="updateEntryResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="notifyEvent">
  <xs:sequence>
    <xs:element name="arg0" type="tns:NotificationType" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="notifyEventResponse">
  <xs:sequence />
</xs:complexType>
<xs:complexType name="subscribeEvent">

```



```

<xs:sequence>
<xs:element name="arg0" type="tns:SubscribeEventType" minOccurs="0" />
</xs:sequence>
</xs:complexType>
<xs:complexType name="SubscribeEventType">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element ref="ns1:RegistryObjectList" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="subscribeEventResponse">
<xs:sequence>
<xs:element name="return" type="tns:RegistryResponseType" minOccurs="0"
/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="queryRegistry">
<xs:sequence>
<xs:element name="arg0" type="tns:AdhocQueryRequest" minOccurs="0" />
</xs:sequence>
</xs:complexType>
<xs:complexType name="AdhocQueryRequest">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element name="ResponseOption" type="tns:ResponseOptionType" />
<xs:element ref="ns1:AdhocQuery" />
</xs:sequence>
<xs:attribute name="federated" type="xs:boolean" />
<xs:attribute name="federation" type="xs:anyURI" />
<xs:attribute name="startIndex" type="xs:integer" />
<xs:attribute name="maxResults" type="xs:integer" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="ResponseOptionType">
<xs:sequence />
<xs:attribute name="returnType" type="xs:string" />
<xs:attribute name="returnComposedObjects" type="xs:boolean" />
</xs:complexType>
<xs:complexType name="queryRegistryResponse">
<xs:sequence>
<xs:element name="return" type="tns:AdhocQueryResponse" minOccurs="0" />
</xs:sequence>
</xs:complexType>
<xs:complexType name="AdhocQueryResponse">
<xs:complexContent>
<xs:extension base="tns:RegistryResponseType">

```

```

<xs:sequence>
  <xs:element ref="ns1:RegistryObjectList" />
</xs:sequence>
<xs:attribute name="startIndex" type="xs:integer" />
<xs:attribute name="totalResultCount" type="xs:integer" />
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="registerEntry">
  <xs:sequence>
    <xs:element name="arg0" type="tns:SubmitObjectsRequest" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="SubmitObjectsRequest">
  <xs:complexContent>
    <xs:extension base="tns:RegistryRequestType">
      <xs:sequence>
        <xs:element ref="ns1:RegistryObjectList" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="registerEntryResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
</xs:schema>

```

## 2.3 Interfaccia IRegistryFederation

*IRegistryFederation* è l'interfaccia per la gestione della federazione di registri. In Figura 3 è riportata una rappresentazione UML dell'interfaccia.

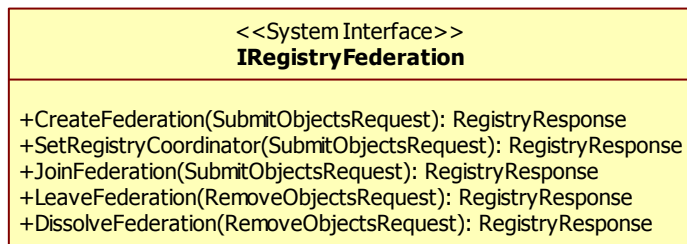


Figura 3. Interfaccia IRegistryFederation

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IRegistryFederation*, con i relativi schemi XSD.

### 2.3.1 IRegistryFederationImpl.wsdl

```
<?xml version='1.0' encoding='UTF-8'?><definitions
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-utility-1.0.xsd" xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IRegistryFeder
ation/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.xmlsoap.org/wsdl/"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IRegistryFeder
ation/" name="IRegistryFederationImpl">
  <types>
    <xsd:schema>
      <xsd:import namespace="urn:oasis:names:tc:ebxml-
regrep:xsd:rim:3.0" schemaLocation="IRegistryFederationImpl.xsd_1.xsd"
/>
    </xsd:schema>
  </types>
</definitions>
```

```

        <xsd:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IRegistryFederationImpl.xsd_2.xsd" />
    </xsd:schema>
    <xsd:schema>
        <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazio
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IRegistryFeder
ation/" schemaLocation="IRegistryFederationImpl.xsd_3.xsd" />
        </xsd:schema>

</types>
<message name="createFederation">
    <part name="parameters" element="tns:createFederation" />
</message>
<message name="createFederationResponse">
    <part name="parameters" element="tns:createFederationResponse"
/>
</message>
<message name="joinFederation">
    <part name="parameters" element="tns:joinFederation" />
</message>
<message name="joinFederationResponse">
    <part name="parameters" element="tns:joinFederationResponse" />
</message>
<message name="leaveFederation">
    <part name="parameters" element="tns:leaveFederation" />
</message>
<message name="leaveFederationResponse">
    <part name="parameters" element="tns:leaveFederationResponse" />
</message>
<message name="dissolveFederation">
    <part name="parameters" element="tns:dissolveFederation" />
</message>
<message name="dissolveFederationResponse">
    <part name="parameters" element="tns:dissolveFederationResponse"
/>
</message>
<message name="setRegistryCoordinator">
<part name="parameters" element="tns:setRegistryCoordinator" />
</message>
<message name="setRegistryCoordinatorResponse">
<part name="parameters" element="tns:setRegistryCoordinatorResponse" />
</message>
<portType name="IRegistryFederationImpl">
<operation name="createFederation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IRegistryFeder

```

```

ation/IRegistryFederationImpl/createFederationRequest"
message="tns:createFederation" />
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IRegistryFeder
ation/IRegistryFederationImpl/createFederationResponse"
message="tns:createFederationResponse" />
</operation>
<operation name="joinFederation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IRegistryFeder
ation/IRegistryFederationImpl/joinFederationRequest"
message="tns:joinFederation" />
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IRegistryFeder
ation/IRegistryFederationImpl/joinFederationResponse"
message="tns:joinFederationResponse" />
</operation>
<operation name="leaveFederation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IRegistryFeder
ation/IRegistryFederationImpl/leaveFederationRequest"
message="tns:leaveFederation" />
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IRegistryFeder
ation/IRegistryFederationImpl/leaveFederationResponse"
message="tns:leaveFederationResponse" />
</operation>
<operation name="dissolveFederation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IRegistryFeder
ation/IRegistryFederationImpl/dissolveFederationRequest"
message="tns:dissolveFederation" />
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IRegistryFeder
ation/IRegistryFederationImpl/dissolveFederationResponse"
message="tns:dissolveFederationResponse" />
</operation>

```

```

<operation name="setRegistryCoordinator">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/RegistryFederation/RegistryFederationImpl/setRegistryCoordinatorRequest"
message="tns:setRegistryCoordinator" />
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/RegistryFederation/RegistryFederationImpl/setRegistryCoordinatorResponse"
message="tns:setRegistryCoordinatorResponse" />
</operation>
</portType>
<binding name="RegistryFederationImplPortBinding"
type="tns:RegistryFederationImpl">
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document" />
<operation name="createFederation">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="joinFederation">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="leaveFederation">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="dissolveFederation">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>

```

```

<output>
<soap:body use="literal" />
</output>
</operation>
<operation name="setRegistryCoordinator">
<soap:operation soapAction="" />
<input>
<soap:body use="literal" />
</input>
<output>
<soap:body use="literal" />
</output>
</operation>
</binding>
<service name="IRegistryFederationImpl">
<port name="IRegistryFederationImplPort"
binding="tns:IRegistryFederationImplPortBinding">
<soap:address location="REPLACE_WITH_ACTUAL_URL" />
</port>
</service>
</definitions>

```

## 2.3.2 IRegistryFederationImpl.xsd\_1.xsd

```

<?xml version='1.0' encoding='UTF-8'?><xs:schema
xmlns:ns1="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-
e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IRegistryFederation/"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0">

  <xs:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-
e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IRegistryFederation/"
schemaLocation="IRegistryFederationImpl.xsd_3.xsd" />

  <xs:element name="Action" type="ns1:ActionType" />

  <xs:element name="Address" type="ns1:PostalAddressType" />

  <xs:element name="AdhocQuery" type="ns1:AdhocQueryType" />

  <xs:element name="Association" type="ns1:AssociationType1" />

  <xs:element name="AuditableEvent" type="ns1:AuditableEventType" />

  <xs:element name="Classification" type="ns1:ClassificationType" />

```

```

    <xs:element name="ClassificationNode"
type="ns1:ClassificationNodeType" />

    <xs:element name="ClassificationScheme"
type="ns1:ClassificationSchemeType" />

    <xs:element name="Description" type="ns1:InternationalStringType" />

    <xs:element name="EmailAddress" type="ns1:EmailAddressType" />

    <xs:element name="ExternalIdentifier"
type="ns1:ExternalIdentifierType" />

    <xs:element name="ExternalLink" type="ns1:ExternalLinkType" />

    <xs:element name="ExtrinsicObject" type="ns1:ExtrinsicObjectType" />

    <xs:element name="Federation" type="ns1:FederationType" />

    <xs:element name="Identifiable" type="ns1:IdentifiableType" />

    <xs:element name="InternationalString"
type="ns1:InternationalStringType" />

    <xs:element name="LocalizedString" type="ns1:LocalizedStringType" />

<xs:element name="Name" type="ns1:InternationalStringType" />
<xs:element name="Notification" type="ns1:NotificationType" />
<xs:element name="NotifyAction" type="ns1:NotifyActionType" />
<xs:element name="ObjectRef" type="ns1:ObjectRefType" />
<xs:element name="ObjectRefList" type="ns1:ObjectRefListType" />
<xs:element name="Organization" type="ns1:OrganizationType" />
<xs:element name="Person" type="ns1:PersonType" />
<xs:element name="PersonName" type="ns1:PersonNameType" />
<xs:element name="PostalAddress" type="ns1:PostalAddressType" />
<xs:element name="QueryExpression" type="ns1:QueryExpressionType" />
<xs:element name="Registry" type="ns1:RegistryType" />
<xs:element name="RegistryObject" type="ns1:RegistryObjectType" />

```



```

<xs:element name="RegistryObjectList" type="ns1:RegistryObjectListType"
/>
<xs:element name="RegistryPackage" type="ns1:RegistryPackageType" />
<xs:element name="Service" type="ns1:ServiceType" />
<xs:element name="ServiceBinding" type="ns1:ServiceBindingType" />
<xs:element name="Slot" type="ns1:SlotType1" />
<xs:element name="SlotList" type="ns1:SlotListType" />
<xs:element name="SpecificationLink" type="ns1:SpecificationLinkType" />
<xs:element name="Subscription" type="ns1:SubscriptionType" />
<xs:element name="TelephoneNumber" type="ns1:TelephoneNumberType" />
<xs:element name="UsageDescription" type="ns1:InternationalStringType"
/>
<xs:element name="UsageParameter" type="xs:string" />
<xs:element name="User" type="ns1:UserType" />
<xs:element name="Value" type="xs:string" />
<xs:element name="ValueList" type="ns1:ValueListType" />
</xs:schema>

```

### 2.3.3 IRegistryFederationImpl.xsd\_2.xsd

```

<?xml version='1.0' encoding='UTF-8'?><xs:schema
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.w3.org/XML/1998/namespace">

    <xs:attribute name="lang" type="xs:string" />
</xs:schema>

```

### 2.3.4 IRegistryFederationImpl.xsd\_3.xsd

```

<?xml version='1.0' encoding='UTF-8'?><xs:schema
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-
e-
innovazionetecnologica/attivita/tse/InfSE/repository/wsdI/IRegistryFederation/"
xmlns:ns1="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"

```

```

xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazione tecnologica/attivita/tse/InfSE/repository/wsd/RegistryFederation/">

    <xs:import namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
schemaLocation="RegistryFederationImpl.xsd_1.xsd" />

    <xs:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="RegistryFederationImpl.xsd_2.xsd" />

    <xs:element name="RegistryError" type="tns:RegistryError" />

    <xs:element name="RegistryErrorList" type="tns:RegistryErrorList" />

    <xs:element name="RemoveObjectsRequest"
type="tns:RemoveObjectsRequest" />

    <xs:element name="SubmitObjectsRequest"
type="tns:SubmitObjectsRequest" />

    <xs:element name="createFederation" type="tns:createFederation" />

    <xs:element name="createFederationResponse"
type="tns:createFederationResponse" />

    <xs:element name="dissolveFederation" type="tns:dissolveFederation"
/>

    <xs:element name="dissolveFederationResponse"
type="tns:dissolveFederationResponse" />

    <xs:element name="joinFederation" type="tns:joinFederation" />

    <xs:element name="joinFederationResponse"
type="tns:joinFederationResponse" />

    <xs:element name="leaveFederation" type="tns:leaveFederation" />

    <xs:element name="leaveFederationResponse"
type="tns:leaveFederationResponse" />

    <xs:element name="setRegistryCoordinator"
type="tns:setRegistryCoordinator" />

    <xs:element name="setRegistryCoordinatorResponse"
type="tns:setRegistryCoordinatorResponse" />

    <xs:complexType name="joinFederation">
        <xs:sequence>

```

```

        <xs:element name="submitObjectsRequest"
type="tns:JoinFederationType" minOccurs="0" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="JoinFederationType">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element name="registryObjectList"
type="tns:RegistryObjectListType" minOccurs="0" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="RegistryRequestType">
<xs:sequence>
<xs:element name="RequestSlotList" type="tns:SlotListType"
minOccurs="0" />
</xs:sequence>
<xs:attribute name="id" type="xs:anyURI" />
<xs:attribute name="comment" type="xs:string" />
</xs:complexType>

<xs:complexType name="RegistryObjectListType">
<xs:sequence>
<xs:choice minOccurs="0" maxOccurs="unbounded">
<xs:element ref="ns1:Identifiable" />
<xs:element ref="ns1:Registry" />
<xs:element ref="ns1:User" />
<xs:element ref="ns1:Federation" />
<xs:element ref="ns1:RegistryPackage" />
<xs:element ref="ns1:SpecificationLink" />
<xs:element ref="ns1:RegistryObject" />
<xs:element ref="ns1:AdhocQuery" />
<xs:element ref="ns1:AuditableEvent" />
<xs:element ref="ns1:ExternalIdentifier" />
<xs:element ref="ns1:Person" />
<xs:element ref="ns1:Association" />
<xs:element ref="ns1:ServiceBinding" />
<xs:element ref="ns1:ExternalLink" />
<xs:element ref="ns1:Subscription" />
<xs:element ref="ns1:ObjectRef" />
<xs:element ref="ns1:ClassificationScheme" />
<xs:element ref="ns1:Service" />
<xs:element ref="ns1:ClassificationNode" />
<xs:element ref="ns1:ExtrinsicObject" />
<xs:element ref="ns1:Organization" />
<xs:element ref="ns1:Classification" />
</xs:choice>

```

```

    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="NotificationType">
    <xs:complexContent>
      <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
          <xs:element name="RegistryObjectList"
type="tns:RegistryObjectListType" />
        </xs:sequence>
        <xs:attribute name="subscription" type="xs:string"
use="required" />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="RegistryObjectType">
    <xs:complexContent>
      <xs:extension base="tns:IdentifiableType">
        <xs:sequence>
          <xs:element name="Name" type="tns:InternationalStringType"
minOccurs="0" />
          <xs:element name="Description"
type="tns:InternationalStringType" minOccurs="0" />
          <xs:element name="VersionInfo" type="tns:VersionInfoType"
minOccurs="0" />
          <xs:element name="Classification" type="tns:ClassificationType"
minOccurs="0" maxOccurs="unbounded" />
          <xs:element name="ExternalIdentifier"
type="tns:ExternalIdentifierType" minOccurs="0" maxOccurs="unbounded" />
        </xs:sequence>
        <xs:attribute name="lid" type="xs:anyURI" />
        <xs:attribute name="objectType" type="xs:string" />
        <xs:attribute name="status" type="xs:string" />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="IdentifiableType">
    <xs:sequence>
      <xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="id" type="xs:anyURI" use="required" />
    <xs:attribute name="home" type="xs:anyURI" />
  </xs:complexType>

  <xs:complexType name="InternationalStringType">
    <xs:sequence>
      <xs:element name="LocalizedString"
type="tns:LocalizedStringType" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

```

```

</xs:sequence>
</xs:complexType>

<xs:complexType name="LocalizedStringType">
<xs:sequence />
<xs:attribute ref="xml:lang" />
<xs:attribute name="charset" type="xs:anySimpleType" />
<xs:attribute name="value" type="xs:string" use="required" />
</xs:complexType>

<xs:complexType name="VersionInfoType">
<xs:sequence />
<xs:attribute name="versionName" type="xs:string" />
<xs:attribute name="comment" type="xs:string" />
</xs:complexType>

<xs:complexType name="ClassificationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence />
<xs:attribute name="classificationScheme" type="xs:string" />
<xs:attribute name="classifiedObject" type="xs:string"
use="required" />
<xs:attribute name="classificationNode" type="xs:string" />
<xs:attribute name="nodeRepresentation" type="xs:string" />
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ExternalIdentifierType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence />
<xs:attribute name="registryObject" type="xs:string"
use="required" />
<xs:attribute name="identificationScheme" type="xs:string"
use="required" />
<xs:attribute name="value" type="xs:string" use="required" />
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="SlotType1">
<xs:sequence>
<xs:element name="ValueList" type="tns:ValueListType" />
</xs:sequence>
<xs:attribute name="name" type="xs:string" use="required" />
<xs:attribute name="slotType" type="xs:string" />
</xs:complexType>

<xs:complexType name="ValueListType">

```

```

        <xs:sequence>
        <xs:element name="Value" type="xs:string" minOccurs="0"
maxOccurs="unbounded" />
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="ObjectRefType">
    <xs:complexContent>
    <xs:extension base="tns:IdentifiableType">
    <xs:sequence />
    <xs:attribute name="createReplica" type="xs:boolean" />
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="ClassificationSchemeType">
    <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
    <xs:sequence>
    <xs:element name="ClassificationNode"
type="tns:ClassificationNodeType" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="isInternal" type="xs:boolean" use="required"
/>
    <xs:attribute name="nodeType" type="xs:string" use="required" />
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="ClassificationNodeType">
    <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
    <xs:sequence>
    <xs:element name="ClassificationNode"
type="tns:ClassificationNodeType" minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="parent" type="xs:string" />
    <xs:attribute name="code" type="xs:string" />
    <xs:attribute name="path" type="xs:string" />
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="ServiceType">
    <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
    <xs:sequence>
    <xs:element name="ServiceBinding" type="tns:ServiceBindingType"
minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
    </xs:extension>

```

```

    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="ServiceBindingType">
    <xs:complexContent>
      <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
          <xs:element name="SpecificationLink"
type="tns:SpecificationLinkType" minOccurs="0" maxOccurs="unbounded" />
        </xs:sequence>
        <xs:attribute name="service" type="xs:string" use="required" />
        <xs:attribute name="accessURI" type="xs:anyURI" />
        <xs:attribute name="targetBinding" type="xs:string" />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="SpecificationLinkType">
    <xs:complexContent>
      <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
          <xs:element name="UsageDescription"
type="tns:InternationalStringType" minOccurs="0" />
          <xs:element name="UsageParameter" type="xs:string" minOccurs="0"
maxOccurs="unbounded" />
        </xs:sequence>
        <xs:attribute name="serviceBinding" type="xs:string"
use="required" />
        <xs:attribute name="specificationObject" type="xs:string"
use="required" />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="AssociationType1">
    <xs:complexContent>
      <xs:extension base="tns:RegistryObjectType">
        <xs:sequence />
        <xs:attribute name="associationType" type="xs:string"
use="required" />
        <xs:attribute name="sourceObject" type="xs:string"
use="required" />
        <xs:attribute name="targetObject" type="xs:string"
use="required" />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="ExtrinsicObjectType">
    <xs:complexContent>
      <xs:extension base="tns:RegistryObjectType">

```

```

        <xs:sequence>
        <xs:element name="ContentVersionInfo" type="tns:VersionInfoType"
minOccurs="0" />
        </xs:sequence>
        <xs:attribute name="mimeType" type="xs:string" />
        <xs:attribute name="isOpaque" type="xs:boolean" />
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="OrganizationType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
        <xs:element name="Address" type="tns:PostalAddressType"
minOccurs="0" maxOccurs="unbounded" />
        <xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded" />
        <xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded" />
        </xs:sequence>
        <xs:attribute name="parent" type="xs:string" />
        <xs:attribute name="primaryContact" type="xs:string" />
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="PostalAddressType">
        <xs:sequence />
        <xs:attribute name="city" type="xs:string" />
        <xs:attribute name="country" type="xs:string" />
        <xs:attribute name="postalCode" type="xs:string" />
        <xs:attribute name="stateOrProvince" type="xs:string" />
        <xs:attribute name="street" type="xs:string" />
        <xs:attribute name="streetNumber" type="xs:string" />
        </xs:complexType>

        <xs:complexType name="TelephoneNumberType">
        <xs:sequence />
        <xs:attribute name="areaCode" type="xs:string" />
        <xs:attribute name="countryCode" type="xs:string" />
        <xs:attribute name="extension" type="xs:string" />
        <xs:attribute name="number" type="xs:string" />
        <xs:attribute name="phoneType" type="xs:string" />
        </xs:complexType>

        <xs:complexType name="EmailAddressType">
        <xs:sequence />
        <xs:attribute name="address" type="xs:string" use="required" />
        <xs:attribute name="type" type="xs:string" />
        </xs:complexType>

```



```

    <xs:complexType name="AdhocQueryType">
    <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
    <xs:sequence>
    <xs:element name="QueryExpression"
type="tns:QueryExpressionType" minOccurs="0" />
    </xs:sequence>
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="QueryExpressionType" mixed="true">
    <xs:sequence>
    <xs:any processContents="lax" namespace="##other" minOccurs="0"
maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="queryLanguage" type="xs:string"
use="required" />
    </xs:complexType>

    <xs:complexType name="RegistryType">
    <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
    <xs:sequence />
    <xs:attribute name="operator" type="xs:string" use="required" />
    <xs:attribute name="specificationVersion" type="xs:string"
use="required" />
    <xs:attribute name="replicationSyncLatency" type="xs:duration"
/>
    <xs:attribute name="catalogingLatency" type="xs:duration" />
    <xs:attribute name="conformanceProfile" type="xs:string" />
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="FederationType">
    <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
    <xs:sequence />
    <xs:attribute name="replicationSyncLatency" type="xs:duration"
/>
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="RegistryPackageType">
    <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
    <xs:sequence>

```

```

    <xs:element name="RegistryObjectList"
type="tns:RegistryObjectListType" minOccurs="0" />
    </xs:sequence>
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="ExternalLinkType">
    <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
    <xs:sequence />
    <xs:attribute name="externalURI" type="xs:anyURI" use="required"
/>
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="AuditableEventType">
    <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
    <xs:sequence>
    <xs:element name="affectedObjects" type="tns:ObjectRefListType"
/>
    </xs:sequence>
    <xs:attribute name="eventType" type="xs:string" use="required"
/>
    <xs:attribute name="timestamp" type="xs:dateTime" use="required"
/>
    <xs:attribute name="user" type="xs:string" use="required" />
    <xs:attribute name="requestId" type="xs:string" use="required"
/>
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="ObjectRefListType">
    <xs:sequence>
    <xs:element name="ObjectRef" type="tns:ObjectRefType"
minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
    </xs:complexType>

    <xs:complexType name="SubscriptionType">
    <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
    <xs:sequence>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
    <xs:element ref="ns1:Action" />
    <xs:element ref="ns1:NotifyAction" />
    </xs:choice>
    </xs:sequence>

```

```

<xs:attribute name="selector" type="xs:string" use="required" />
<xs:attribute name="startTime" type="xs:dateTime" />
<xs:attribute name="endTime" type="xs:dateTime" />
<xs:attribute name="notificationInterval" type="xs:duration" />
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="PersonType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="Address" type="tns:PostalAddressType"
minOccurs="0" maxOccurs="unbounded" />
<xs:element name="PersonName" type="tns:PersonNameType"
minOccurs="0" />
<xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded" />
<xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="PersonNameType">
<xs:sequence />
<xs:attribute name="firstName" type="xs:string" />
<xs:attribute name="middleName" type="xs:string" />
<xs:attribute name="lastName" type="xs:string" />
</xs:complexType>

<xs:complexType name="UserType">
<xs:complexContent>
<xs:extension base="tns:PersonType">
<xs:sequence />
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="SlotListType">
<xs:sequence>
<xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="TelephoneNumberListType">
<xs:sequence>
<xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded" />

```

```

</xs:sequence>
</xs:complexType>

<xs:complexType name="NotifyActionType">
<xs:complexContent>
<xs:extension base="tns:ActionType">
<xs:sequence />
<xs:attribute name="notificationOption" type="xs:string" />
<xs:attribute name="endPoint" type="xs:anyURI" use="required" />
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ActionType" abstract="true">
<xs:sequence />
</xs:complexType>

<xs:complexType name="joinFederationResponse">
<xs:sequence>
<xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0" />
</xs:sequence>
</xs:complexType>

<xs:complexType name="RegistryResponseType">
<xs:sequence>
<xs:element name="ResponseSlotList" type="tns:SlotListType"
minOccurs="0" />
<xs:element name="RegistryErrorList"
type="tns:RegistryErrorList" minOccurs="0" />
</xs:sequence>
<xs:attribute name="status" type="xs:string" use="required" />
<xs:attribute name="requestId" type="xs:anyURI" />
</xs:complexType>

<xs:complexType name="RegistryErrorList">
<xs:sequence>
<xs:element name="RegistryError" type="tns:RegistryError"
maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="highestSeverity" type="xs:string" />
</xs:complexType>

<xs:complexType name="RegistryError">
<xs:simpleContent>
<xs:extension base="xs:string">
<xs:attribute name="codeContext" type="xs:string" use="required"
/>
<xs:attribute name="errorCode" type="xs:string" use="required"
/>
<xs:attribute name="severity" type="xs:string" />

```

```

    <xs:attribute name="location" type="xs:string" />
  </xs:extension>
</xs:simpleContent>
</xs:complexType>

  <xs:complexType name="setRegistryCoordinator">
    <xs:sequence>
      <xs:element name="submitObjectsRequest"
type="tns:SetRegistryCoordinatorType" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="SetRegistryCoordinatorType">
    <xs:complexContent>
      <xs:extension base="tns:RegistryRequestType">
        <xs:sequence>
          <xs:element name="registryObjectList"
type="tns:RegistryObjectListType" minOccurs="0" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="setRegistryCoordinatorResponse">
    <xs:sequence>
      <xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="leaveFederation">
    <xs:sequence>
      <xs:element name="removeObjectsRequest"
type="tns:LeaveFederationType" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="LeaveFederationType">
    <xs:complexContent>
      <xs:extension base="tns:RegistryRequestType">
        <xs:sequence>
          <xs:element name="adhocQuery" type="tns:AdhocQueryType"
minOccurs="0" />
          <xs:element name="objectRefList" type="tns:ObjectRefListType"
minOccurs="0" />
          <xs:element name="deletionScope" type="xs:string" minOccurs="0"
/>
          <xs:element name="federationType" type="tns:FederationType"
minOccurs="0" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

```

```

    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="leaveFederationResponse">
    <xs:sequence>
      <xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="dissolveFederation">
    <xs:sequence>
      <xs:element name="removeObjectsRequest"
type="tns:RemoveObjectsRequest" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="RemoveObjectsRequest">
    <xs:complexContent>
      <xs:extension base="tns:RegistryRequestType">
        <xs:sequence>
          <xs:element ref="ns1:AdhocQuery" minOccurs="0" />
          <xs:element ref="ns1:ObjectRefList" minOccurs="0" />
        </xs:sequence>
        <xs:attribute name="deletionScope" type="xs:string" />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="dissolveFederationResponse">
    <xs:sequence>
      <xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="createFederation">
    <xs:sequence>
      <xs:element name="submitObjectsRequest"
type="tns:SubmitObjectsRequest" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="SubmitObjectsRequest">
    <xs:complexContent>
      <xs:extension base="tns:RegistryRequestType">
        <xs:sequence>
          <xs:element ref="ns1:RegistryObjectList" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

```

```
</xs:complexType>

<xs:complexType name="createFederationResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0" />
  </xs:sequence>
</xs:complexType>
</xs:schema>
```

## 2.4 Interfaccia IEvent

*IEvent* è l'interfaccia per la gestione degli eventi, classi di eventi e gerarchie di classi. In Figura 4 è riportata una rappresentazione UML dell'interfaccia.

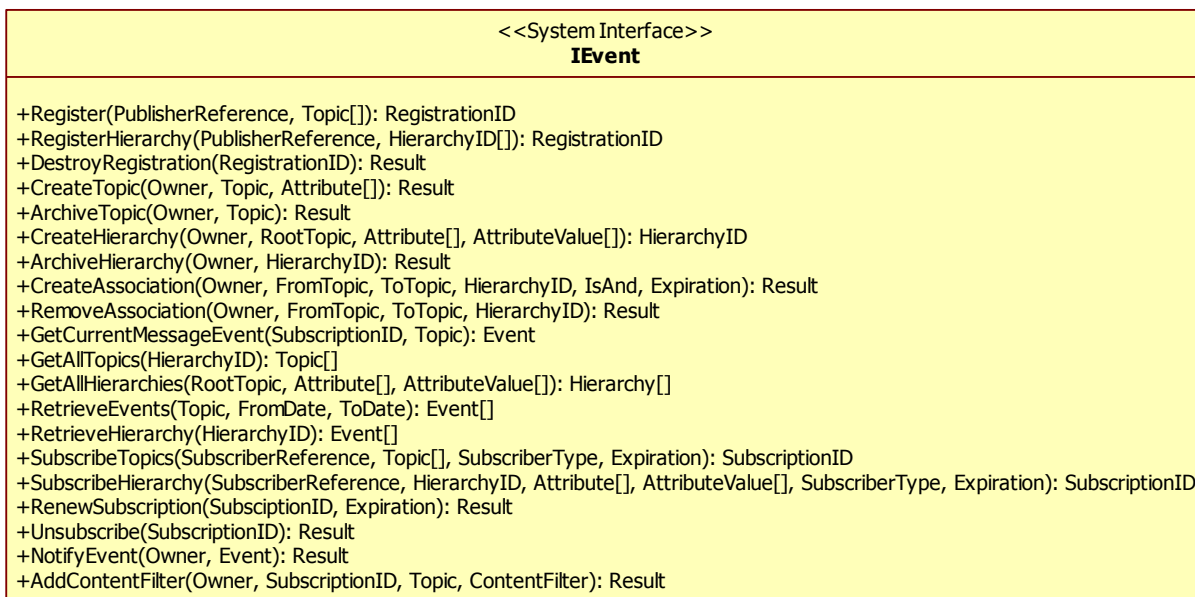


Figura 4. Interfaccia IEvent

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IEvent*, con i relativi schemi XSD.

### 2.4.1 IEventImpl.wsdl

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsdI/IEvent"
name="IEventImpl" xmlns="http://schemas.xmlsoap.org/wsdI/"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IEvent"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy">
```



```

xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-utility-1.0.xsd">
  <types>
    <xsd:schema>
      <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IEvent"
schemaLocation="IEventImpl_schema1.xsd"/>
      </xsd:schema>
    </types>
    <message name="register">
      <part name="parameters" element="tns:register"/>
    </message>
    <message name="registerResponse">
      <part name="parameters" element="tns:registerResponse"/>
    </message>
    <message name="getAllTopics">
      <part name="parameters" element="tns:getAllTopics"/>
    </message>
    <message name="getAllTopicsResponse">
      <part name="parameters" element="tns:getAllTopicsResponse"/>
    </message>
    <message name="notifyEvent">
      <part name="parameters" element="tns:notifyEvent"/>
    </message>
    <message name="notifyEventResponse">
      <part name="parameters" element="tns:notifyEventResponse"/>
    </message>
    <message name="archiveTopic">
      <part name="parameters" element="tns:archiveTopic"/>
    </message>
    <message name="archiveTopicResponse">
      <part name="parameters" element="tns:archiveTopicResponse"/>
    </message>
    <message name="createTopic">
      <part name="parameters" element="tns:createTopic"/>
    </message>
    <message name="createTopicResponse">
      <part name="parameters" element="tns:createTopicResponse"/>
    </message>
    <message name="registerHierarchy">
      <part name="parameters" element="tns:registerHierarchy"/>
    </message>
    <message name="registerHierarchyResponse">
      <part name="parameters" element="tns:registerHierarchyResponse"/>
    </message>
    <message name="destroyRegistration">
      <part name="parameters" element="tns:destroyRegistration"/>
    </message>

```

```

<message name="destroyRegistrationResponse">
<part name="parameters" element="tns:destroyRegistrationResponse"/>
</message>
<message name="addContentFilter">
<part name="parameters" element="tns:addContentFilter"/>
</message>
<message name="addContentFilterResponse">
<part name="parameters" element="tns:addContentFilterResponse"/>
</message>
<message name="createHierarchy">
<part name="parameters" element="tns:createHierarchy"/>
</message>
<message name="createHierarchyResponse">
<part name="parameters" element="tns:createHierarchyResponse"/>
</message>
<message name="archiveHierarchy">
<part name="parameters" element="tns:archiveHierarchy"/>
</message>
<message name="archiveHierarchyResponse">
<part name="parameters" element="tns:archiveHierarchyResponse"/>
</message>
<message name="createAssociation">
<part name="parameters" element="tns:createAssociation"/>
</message>
<message name="createAssociationResponse">
<part name="parameters" element="tns:createAssociationResponse"/>
</message>
<message name="removeAssociation">
<part name="parameters" element="tns:removeAssociation"/>
</message>
<message name="removeAssociationResponse">
<part name="parameters" element="tns:removeAssociationResponse"/>
</message>
<message name="getCurrentMessageEvent">
<part name="parameters" element="tns:getCurrentMessageEvent"/>
</message>
<message name="getCurrentMessageEventResponse">
<part name="parameters" element="tns:getCurrentMessageEventResponse"/>
</message>
<message name="getAllHierarchies">
<part name="parameters" element="tns:getAllHierarchies"/>
</message>
<message name="getAllHierarchiesResponse">
<part name="parameters" element="tns:getAllHierarchiesResponse"/>
</message>
<message name="retrieveEvents">
<part name="parameters" element="tns:retrieveEvents"/>
</message>
<message name="retrieveEventsResponse">
<part name="parameters" element="tns:retrieveEventsResponse"/>
</message>

```

```

<message name="retrieveHierarchy">
<part name="parameters" element="tns:retrieveHierarchy"/>
</message>
<message name="retrieveHierarchyResponse">
<part name="parameters" element="tns:retrieveHierarchyResponse"/>
</message>
<message name="subscribeTopics">
<part name="parameters" element="tns:subscribeTopics"/>
</message>
<message name="subscribeTopicsResponse">
<part name="parameters" element="tns:subscribeTopicsResponse"/>
</message>
<message name="subscribeHierarchy">
<part name="parameters" element="tns:subscribeHierarchy"/>
</message>
<message name="subscribeHierarchyResponse">
<part name="parameters" element="tns:subscribeHierarchyResponse"/>
</message>
<message name="renewSubscription">
<part name="parameters" element="tns:renewSubscription"/>
</message>
<message name="renewSubscriptionResponse">
<part name="parameters" element="tns:renewSubscriptionResponse"/>
</message>
<message name="unsubscribe">
<part name="parameters" element="tns:unsubscribe"/>
</message>
<message name="unsubscribeResponse">
<part name="parameters" element="tns:unsubscribeResponse"/>
</message>
<portType name="IEventImpl">
<operation name="register">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/registerRequest" message="tns:register"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/registerResponse" message="tns:registerResponse"/>
</operation>
<operation name="getAllTopics">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/getAllTopicsRequest" message="tns:getAllTopics"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi

```

```

one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/getAllTopicsResponse" message="tns:getAllTopicsResponse"/>
</operation>
<operation name="addContentFilter">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/addContentFilterRequest" message="tns:addContentFilter"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/addContentFilterResponse" message="tns:addContentFilterResponse"/>
</operation>
<operation name="notifyEvent">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/notifyEventRequest" message="tns:notifyEvent"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/notifyEventResponse" message="tns:notifyEventResponse"/>
</operation>
<operation name="archiveTopic">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/archiveTopicRequest" message="tns:archiveTopic"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/archiveTopicResponse" message="tns:archiveTopicResponse"/>
</operation>
<operation name="createTopic">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/createTopicRequest" message="tns:createTopic"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/createTopicResponse" message="tns:createTopicResponse"/>

```

```

</operation>
<operation name="registerHierarchy">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/registerHierarchyRequest" message="tns:registerHierarchy"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/registerHierarchyResponse" message="tns:registerHierarchyResponse"/>
</operation>
<operation name="destroyRegistration">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/destroyRegistrationRequest" message="tns:destroyRegistration"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/destroyRegistrationResponse"
message="tns:destroyRegistrationResponse"/>
</operation>
<operation name="createHierarchy">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/createHierarchyRequest" message="tns:createHierarchy"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/createHierarchyResponse" message="tns:createHierarchyResponse"/>
</operation>
<operation name="archiveHierarchy">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/archiveHierarchyRequest" message="tns:archiveHierarchy"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/archiveHierarchyResponse" message="tns:archiveHierarchyResponse"/>
</operation>
<operation name="createAssociation">

```

```

<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/createAssociationRequest" message="tns:createAssociation"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/createAssociationResponse" message="tns:createAssociationResponse"/>
</operation>
<operation name="removeAssociation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/removeAssociationRequest" message="tns:removeAssociation"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/removeAssociationResponse" message="tns:removeAssociationResponse"/>
</operation>
<operation name="getCurrentMessageEvent">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/getCurrentMessageEventRequest"
message="tns:getCurrentMessageEvent"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/getCurrentMessageEventResponse"
message="tns:getCurrentMessageEventResponse"/>
</operation>
<operation name="getAllHierarchies">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/getAllHierarchiesRequest" message="tns:getAllHierarchies"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/getAllHierarchiesResponse" message="tns:getAllHierarchiesResponse"/>
</operation>
<operation name="retrieveEvents">

```

```

<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/retrieveEventsRequest" message="tns:retrieveEvents"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/retrieveEventsResponse" message="tns:retrieveEventsResponse"/>
</operation>
<operation name="retrieveHierarchy">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/retrieveHierarchyRequest" message="tns:retrieveHierarchy"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/retrieveHierarchyResponse" message="tns:retrieveHierarchyResponse"/>
</operation>
<operation name="subscribeTopics">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/subscribeTopicsRequest" message="tns:subscribeTopics"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/subscribeTopicsResponse" message="tns:subscribeTopicsResponse"/>
</operation>
<operation name="subscribeHierarchy">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/subscribeHierarchyRequest" message="tns:subscribeHierarchy"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/subscribeHierarchyResponse"
message="tns:subscribeHierarchyResponse"/>
</operation>
<operation name="renewSubscription">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi

```

```

one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/renewSubscriptionRequest" message="tns:renewSubscription"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/renewSubscriptionResponse" message="tns:renewSubscriptionResponse"/>
</operation>
<operation name="unsubscribe">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/unsubscribeRequest" message="tns:unsubscribe"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent/IEventI
mpl/unsubscribeResponse" message="tns:unsubscribeResponse"/>
</operation>
</portType>
<binding name="IEventImplPortBinding" type="tns:IEventImpl">
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
<operation name="register">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="getAllTopics">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="addContentFilter">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>

```



```

</operation>
<operation name="notifyEvent">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="archiveTopic">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="createTopic">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="registerHierarchy">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="destroyRegistration">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="createHierarchy">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>

```

```

<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="archiveHierarchy">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="createAssociation">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="removeAssociation">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="getCurrentMessageEvent">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="getAllHierarchies">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="retrieveEvents">
<soap:operation soapAction=""/>

```

```

<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="retrieveHierarchy">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="subscribeTopics">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="subscribeHierarchy">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="renewSubscription">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="unsubscribe">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>

```

```

</operation>
</binding>
<service name="IEventImpl">
<port name="IEventImplPort" binding="tns:IEventImplPortBinding">
<soap:address location="REPLACE_WITH_ACTUAL_URL"/>
</port>
</service>
</definitions>

```

## 2.4.2 IEventImpl\_schema1.xsd

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEvent"
xmlns:xs="http://www.w3.org/2001/XMLSchema">

    <xs:element name="archiveHierarchy" type="tns:archiveHierarchy"/>

    <xs:element name="archiveHierarchyResponse"
type="tns:archiveHierarchyResponse"/>

    <xs:element name="archiveTopic" type="tns:archiveTopic"/>

    <xs:element name="archiveTopicResponse"
type="tns:archiveTopicResponse"/>

    <xs:element name="addContentFilter" type="tns:addContentFilter"/>

    <xs:element name="addContentFilterResponse"
type="tns:addContentFilterResponse"/>

    <xs:element name="createAssociation" type="tns:createAssociation"/>

    <xs:element name="createAssociationResponse"
type="tns:createAssociationResponse"/>

    <xs:element name="createHierarchy" type="tns:createHierarchy"/>

    <xs:element name="createHierarchyResponse"
type="tns:createHierarchyResponse"/>

    <xs:element name="createTopic" type="tns:createTopic"/>

```

```

    <xs:element name="createTopicResponse"
type="tns:createTopicResponse"/>

    <xs:element name="destroyRegistration"
type="tns:destroyRegistration"/>

    <xs:element name="destroyRegistrationResponse"
type="tns:destroyRegistrationResponse"/>

    <xs:element name="getAllHierarchies" type="tns:getAllHierarchies"/>

    <xs:element name="getAllHierarchiesResponse"
type="tns:getAllHierarchiesResponse"/>

    <xs:element name="getAllTopics" type="tns:getAllTopics"/>

<xs:element name="getAllTopicsResponse"
type="tns:getAllTopicsResponse"/>

<xs:element name="getCurrentMessageEvent"
type="tns:getCurrentMessageEvent"/>

<xs:element name="getCurrentMessageEventResponse"
type="tns:getCurrentMessageEventResponse"/>

<xs:element name="notifyEvent" type="tns:notifyEvent"/>

<xs:element name="notifyEventResponse" type="tns:notifyEventResponse"/>

<xs:element name="register" type="tns:register"/>

<xs:element name="registerHierarchy" type="tns:registerHierarchy"/>

<xs:element name="registerHierarchyResponse"
type="tns:registerHierarchyResponse"/>

<xs:element name="registerResponse" type="tns:registerResponse"/>

<xs:element name="removeAssociation" type="tns:removeAssociation"/>

<xs:element name="removeAssociationResponse"
type="tns:removeAssociationResponse"/>

<xs:element name="renewSubscription" type="tns:renewSubscription"/>

<xs:element name="renewSubscriptionResponse"
type="tns:renewSubscriptionResponse"/>

<xs:element name="retrieveEvents" type="tns:retrieveEvents"/>

```

```

<xs:element name="retrieveEventsResponse"
type="tns:retrieveEventsResponse"/>

<xs:element name="retrieveHierarchy" type="tns:retrieveHierarchy"/>

<xs:element name="retrieveHierarchyResponse"
type="tns:retrieveHierarchyResponse"/>

<xs:element name="subscribeHierarchy" type="tns:subscribeHierarchy"/>

<xs:element name="subscribeHierarchyResponse"
type="tns:subscribeHierarchyResponse"/>

<xs:element name="subscribeTopics" type="tns:subscribeTopics"/>

<xs:element name="subscribeTopicsResponse"
type="tns:subscribeTopicsResponse"/>

<xs:element name="unsubscribe" type="tns:unsubscribe"/>

<xs:element name="unsubscribeResponse" type="tns:unsubscribeResponse"/>

<xs:complexType name="createHierarchy">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
<xs:element name="arg1" type="tns:topicExpressionType" minOccurs="0"/>
<xs:element name="arg2" type="tns:attribute" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="arg3" type="tns:attributeValue" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="endpointReferenceType">
<xs:sequence>
<xs:element name="address" type="tns:attributedURIType" minOccurs="0"/>
<xs:element name="metadata" type="tns:metadataType" minOccurs="0"/>
<xs:element name="referenceParameters"
type="tns:referenceParametersType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="contentFilter">
<xs:sequence>
<xs:element name="fieldName" type="xs:string" minOccurs="0"/>
<xs:element name="fieldValue" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="attributedURIType">
<xs:sequence>

```

```

<xs:element name="value" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="metadataType">
<xs:sequence/>
</xs:complexType>

<xs:complexType name="referenceParametersType">
<xs:sequence/>
</xs:complexType>

<xs:complexType name="topicExpressionType" mixed="true">
<xs:complexContent>
<xs:restriction base="xs:anyType">
<xs:sequence>
<xs:any processContents='lax' minOccurs="0" maxOccurs="1"/>
</xs:sequence>
<xs:attribute name="Dialect" use="required" type="xs:anyURI" />
<xs:anyAttribute/>
</xs:restriction>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="attribute">
<xs:sequence>
<xs:element name="attribute" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="attributeValue">
<xs:sequence>
<xs:element name="value" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="createHierarchyResponse">
<xs:sequence>
<xs:element name="return" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="subscribeTopics">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
<xs:element name="arg1" type="tns:topicExpressionType" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="arg2" type="tns:subscriberType" minOccurs="0"/>
<xs:element name="arg3" type="xs:dateTime" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

```

<xs:complexType name="subscribeTopicsResponse">
<xs:sequence>
<xs:element name="return" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="getAllTopics">
<xs:sequence>
<xs:element name="arg0" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="getAllTopicsResponse">
<xs:sequence>
<xs:element name="return" type="tns:topicExpressionType" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="retrieveEvents">
<xs:sequence>
<xs:element name="arg0" type="tns:topicExpressionType" minOccurs="0"/>
<xs:element name="arg1" type="xs:dateTime" minOccurs="0"/>
<xs:element name="arg2" type="xs:dateTime" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="retrieveEventsResponse">
<xs:sequence>
<xs:element name="return" type="tns:event" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="event">
<xs:sequence>
<xs:element name="creationDate" type="xs:dateTime" minOccurs="0"/>
<xs:element name="eventID" type="xs:string" minOccurs="0"/>
<xs:element name="msg" type="xs:string" minOccurs="0"/>
<xs:element name="topicName" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="getCurrentMessageEvent">
<xs:sequence>
<xs:element name="arg0" type="xs:string" minOccurs="0"/>
<xs:element name="arg1" type="tns:topicExpressionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```



```

<xs:complexType name="getCurrentMessageEventResponse">
<xs:sequence>
<xs:element name="return" type="tns:event" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="removeAssociation">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
<xs:element name="arg1" type="tns:topicExpressionType" minOccurs="0"/>
<xs:element name="arg2" type="tns:topicExpressionType" minOccurs="0"/>
<xs:element name="arg3" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="removeAssociationResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="addContentFilter">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
<xs:element name="arg1" type="xs:string" minOccurs="0"/>
<xs:element name="arg2" type="tns:topicExpressionType" minOccurs="0"/>
<xs:element name="arg3" type="tns:contentFilter" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="addContentFilterResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="createTopic">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
<xs:element name="arg1" type="tns:topicExpressionType" minOccurs="0"/>
<xs:element name="arg2" type="tns:attribute" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="createTopicResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

```

```

<xs:complexType name="getAllHierarchies">
  <xs:sequence>
    <xs:element name="arg0" type="tns:topicExpressionType" minOccurs="0"/>
    <xs:element name="arg1" type="tns:attribute" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="arg2" type="tns:attributeValue" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="getAllHierarchiesResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:hierarchy" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="hierarchy">
  <xs:sequence>
    <xs:element name="creationDate" type="xs:anySimpleType" minOccurs="0"/>
    <xs:element name="hierarchyGraph" type="xs:string" minOccurs="0"/>
    <xs:element name="hierarchyID" type="xs:string" minOccurs="0"/>
    <xs:element name="owner" type="tns:endpointReferenceType"
minOccurs="0"/>
    <xs:element name="status" type="tns:status" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="subscribeHierarchy">
  <xs:sequence>
    <xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
    <xs:element name="arg1" type="xs:string" minOccurs="0"/>
    <xs:element name="arg2" type="tns:attribute" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="arg3" type="tns:attributeValue" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="arg4" type="tns:subscriberType" minOccurs="0"/>
    <xs:element name="arg5" type="xs:anySimpleType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="subscribeHierarchyResponse">
  <xs:sequence>
    <xs:element name="return" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="destroyRegistration">
  <xs:sequence>
    <xs:element name="arg0" type="xs:string" minOccurs="0"/>
  </xs:sequence>

```

```

</xs:complexType>

<xs:complexType name="destroyRegistrationResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="unsubscribe">
<xs:sequence>
<xs:element name="arg0" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="unsubscribeResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="retrieveHierarchy">
<xs:sequence>
<xs:element name="arg0" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="retrieveHierarchyResponse">
<xs:sequence>
<xs:element name="return" type="tns:event" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="registerHierarchy">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
<xs:element name="arg1" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="registerHierarchyResponse">
<xs:sequence>
<xs:element name="return" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="createAssociation">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
<xs:element name="arg1" type="tns:topicExpressionType" minOccurs="0"/>

```

```

<xs:element name="arg2" type="tns:topicExpressionType" minOccurs="0"/>
<xs:element name="arg3" type="xs:string" minOccurs="0"/>
<xs:element name="arg4" type="xs:boolean"/>
<xs:element name="arg5" type="xs:int"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="createAssociationResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="notifyEvent">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
<xs:element name="arg1" type="tns:event" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="notifyEventResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="register">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
<xs:element name="arg1" type="tns:topicExpressionType" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="registerResponse">
<xs:sequence>
<xs:element name="return" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="archiveTopic">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
<xs:element name="arg1" type="tns:topicExpressionType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="archiveTopicResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>

```

```

</xs:complexType>

<xs:complexType name="renewSubscription">
<xs:sequence>
<xs:element name="arg0" type="xs:string" minOccurs="0"/>
<xs:element name="arg1" type="xs:dateTime" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="renewSubscriptionResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="archiveHierarchy">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType" minOccurs="0"/>
<xs:element name="arg1" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="archiveHierarchyResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:simpleType name="subscriberType">
<xs:restriction base="xs:string">
<xs:enumeration value="PUSH"/>
<xs:enumeration value="PULL"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="status">
<xs:restriction base="xs:string">
<xs:enumeration value="ACTIVE"/>
<xs:enumeration value="ARCHIEVED"/>
</xs:restriction>
</xs:simpleType>
</xs:schema>

```

## 2.5 Interfaccia IBrokerFederation

*IBrokerFederation* è l'interfaccia per la gestione della federazione di nodi broker di eventi.

In Figura 5 è riportata una rappresentazione UML dell'interfaccia.

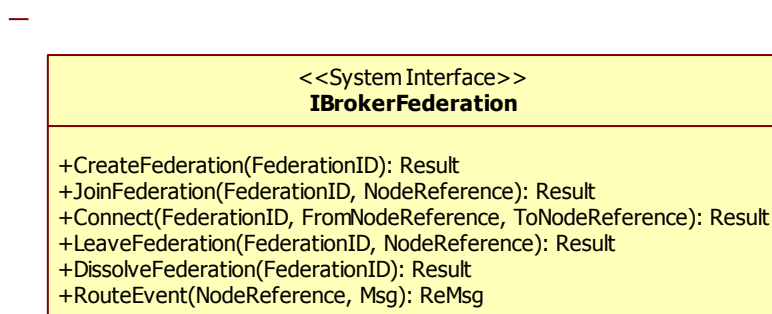


Figura 5. Interfaccia IBrokerFederation

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IBrokerFederation*, con i relativi schemi XSD.

### 2.5.1 IBrokerFederationImpl.wsdl

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/" name="IBrokerFederationImpl"
xmlns="http://schemas.xmlsoap.org/wsd/"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:soap="http://schemas.xmlsoap.org/wsd/soap/"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-utility-1.0.xsd">
  <types>
    <xsd:schema>
```

```

        <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederation/"
schemaLocation="IBrokerFederationImpl_schema1.xsd"/>
    </xsd:schema>
</types>
<message name="connect">
    <part name="parameters" element="tns:connect"/>
</message>
<message name="connectResponse">
    <part name="parameters" element="tns:connectResponse"/>
</message>
<message name="routeEvent">
    <part name="parameters" element="tns:routeEvent"/>
</message>
<message name="routeEventResponse">
    <part name="parameters" element="tns:routeEventResponse"/>
</message>
<message name="createFederation">
    <part name="parameters" element="tns:createFederation"/>
</message>
<message name="createFederationResponse">
    <part name="parameters" element="tns:createFederationResponse"/>
</message>
<message name="leaveFederation">
    <part name="parameters" element="tns:leaveFederation"/>
</message>
<message name="leaveFederationResponse">
    <part name="parameters" element="tns:leaveFederationResponse"/>
</message>
<message name="dissolveFederation">
    <part name="parameters" element="tns:dissolveFederation"/>
</message>
<message name="dissolveFederationResponse">
    <part name="parameters"
element="tns:dissolveFederationResponse"/>
</message>
<message name="joinFederation">
<part name="parameters" element="tns:joinFederation"/>
</message>
<message name="joinFederationResponse">
<part name="parameters" element="tns:joinFederationResponse"/>
</message>
<portType name="IBrokerFederationImpl">
<operation name="connect">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederation/
IBrokerFederationImpl/connect" message="tns:connect"/>

```

```

<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/connectResponse"
message="tns:connectResponse"/>
</operation>
<operation name="routeEvent">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/routeEventRequest" message="tns:routeEvent"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/routeEventResponse"
message="tns:routeEventResponse"/>
</operation>
<operation name="createFederation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/createFederation"
message="tns:createFederation"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/createFederationResponse"
message="tns:createFederationResponse"/>
</operation>
<operation name="leaveFederation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/leaveFederation"
message="tns:leaveFederation"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/leaveFederationResponse"
message="tns:leaveFederationResponse"/>
</operation>
<operation name="dissolveFederation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi

```



```

one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederation/IBrokerFederationImpl/dissolveFederation"
message="tns:dissolveFederation"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederation/IBrokerFederationImpl/dissolveFederationResponse"
message="tns:dissolveFederationResponse"/>
</operation>
<operation name="joinFederation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederation/IBrokerFederationImpl/joinFederation" message="tns:joinFederation"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederation/IBrokerFederationImpl/joinFederationResponse"
message="tns:joinFederationResponse"/>
</operation>
</portType>
<binding name="IBrokerFederationImplPortBinding"
type="tns:IBrokerFederationImpl">
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
<operation name="connect">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="routeEvent">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="createFederation">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>

```

```

</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="leaveFederation">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="dissolveFederation">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="joinFederation">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
</binding>
<service name="IBrokerFederationImpl">
<port name="IBrokerFederationImplPort"
binding="tns:IBrokerFederationImplPortBinding">
<soap:address location="REPLACE_WITH_ACTUAL_URL"/>
</port>
</service>
</definitions>

```

## 2.5.2 IBrokerFederationImpl\_schema1.xsd

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InfSE/repository/wsd/IBrokerFederat

```

```

ion/"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-
e-
innovazione/tecnologica/attivita/tse/InFSE/repository/wsd1/IBrokerFederation/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:element name="connect" type="tns:connect"/>

  <xs:element name="connectResponse" type="tns:connectResponse"/>

  <xs:element name="createFederation" type="tns:createFederation"/>

  <xs:element name="createFederationResponse"
type="tns:createFederationResponse"/>

  <xs:element name="dissolveFederation"
type="tns:dissolveFederation"/>

  <xs:element name="dissolveFederationResponse"
type="tns:dissolveFederationResponse"/>

  <xs:element name="joinFederation" type="tns:joinFederation"/>

  <xs:element name="joinFederationResponse"
type="tns:joinFederationResponse"/>

  <xs:element name="leaveFederation" type="tns:leaveFederation"/>

  <xs:element name="leaveFederationResponse"
type="tns:leaveFederationResponse"/>

  <xs:element name="routeEvent" type="tns:routeEvent"/>

  <xs:element name="routeEventResponse"
type="tns:routeEventResponse"/>

  <xs:complexType name="connect">
    <xs:sequence>
      <xs:element name="arg0" type="xs:string" minOccurs="0"/>
      <xs:element name="arg1" type="tns:endpointReferenceType"
minOccurs="0"/>
      <xs:element name="arg2" type="tns:endpointReferenceType"
minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="connectResponse">
    <xs:sequence>
      <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>

```

```

        <xs:complexType name="endpointReferenceType">
        <xs:sequence>
        <xs:element name="address" type="tns:attributedURIType"
minOccurs="0"/>
        <xs:element name="metadata" type="tns:metadataType"
minOccurs="0"/>
        <xs:element name="referenceParameters"
type="tns:referenceParametersType" minOccurs="0"/>
        </xs:sequence>
        </xs:complexType>

        <xs:complexType name="attributedURIType">
        <xs:sequence>
        <xs:element name="value" type="xs:string" minOccurs="0"/>
        </xs:sequence>
        </xs:complexType>

        <xs:complexType name="metadataType">
        <xs:sequence/>
        </xs:complexType>

        <xs:complexType name="referenceParametersType">
        <xs:sequence/>
        </xs:complexType>

        <xs:complexType name="createFederation">
        <xs:sequence>
        <xs:element name="arg0" type="xs:string" minOccurs="0"/>
        </xs:sequence>
        </xs:complexType>

        <xs:complexType name="createFederationResponse">
        <xs:sequence>
        <xs:element name="return" type="xs:boolean"/>
        </xs:sequence>
        </xs:complexType>

        <xs:complexType name="routeEvent">
        <xs:sequence>
        <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
        <xs:element name="arg1" type="tns:event" minOccurs="0"/>
        </xs:sequence>
        </xs:complexType>

        <xs:complexType name="event">
        <xs:sequence>
        <xs:element name="creationDate" type="xs:dateTime"
minOccurs="0"/>
        <xs:element name="eventID" type="xs:string" minOccurs="0"/>

```

```

<xs:element name="msg" type="xs:string" minOccurs="0"/>
<xs:element name="topicName" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="routeEventResponse">
<xs:sequence>
<xs:element name="return" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="leaveFederation">
<xs:sequence>
<xs:element name="arg0" type="xs:string" minOccurs="0"/>
<xs:element name="arg1" type="tns:endpointReferenceType"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="leaveFederationResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="dissolveFederation">
<xs:sequence>
<xs:element name="arg0" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="dissolveFederationResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="joinFederation">
<xs:sequence>
<xs:element name="arg0" type="xs:string" minOccurs="0"/>
<xs:element name="arg1" type="tns:endpointReferenceType"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="joinFederationResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>
</xs:schema>

```

## 3 Registro Indice Federato

In questa sezione sono presentate le interfacce WSDL della componente *Registro Indice Federato*, ossia:

- *IMetadataMgt*;
- *IQueryMgt*;
- *IEventMgt*;
- *IRegistryFederationMgt*.

### 3.1 Interfaccia IMetadataMgt

L'interfaccia *IMetadataMgt* supporta le operazioni per gestire il ciclo di vita dei metadati (ossia, inserimento e aggiornamento dei metadati in un registro, loro approvazione, etc.).

In Figura 6 è riportata una rappresentazione UML dell'interfaccia.

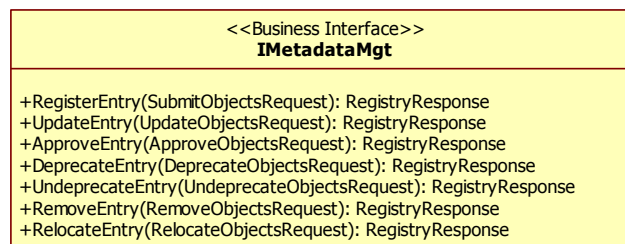


Figura 6. Interfaccia IMetadataMgt

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IMetadataMgt*, con i relativi schemi XSD.

#### 3.1.1 IMetadataMgtImpl.wsdl

```
<?xml version="1.0" encoding="UTF-8"?>
<definitions xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
```

```

xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.xmlsoap.org/wsd/"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/"
name="IMetadataMgtImpl">
  <types>
    <xsd:schema>
      <xsd:import namespace="urn:oasis:names:tc:ebxml-
regrep:xsd:rim:3.0" schemaLocation="IMetadataMgtImpl.xsd_1.xsd"/>
    </xsd:schema>
    <xsd:schema>
      <xsd:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IMetadataMgtImpl.xsd_2.xsd"/>
    </xsd:schema>
    <xsd:schema>
      <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/"
schemaLocation="IMetadataMgtImpl.xsd_3.xsd"/>
    </xsd:schema>
  </types>
  <message name="registerEntry">
    <part name="parameters" element="tns:registerEntry"/>
  </message>
  <message name="registerEntryResponse">
    <part name="parameters" element="tns:registerEntryResponse"/>
  </message>
  <message name="updateEntry">
    <part name="parameters" element="tns:updateEntry"/>
  </message>
  <message name="updateEntryResponse">
    <part name="parameters" element="tns:updateEntryResponse"/>
  </message>
  <message name="removeEntry">
    <part name="parameters" element="tns:removeEntry"/>
  </message>
  <message name="removeEntryResponse">
    <part name="parameters" element="tns:removeEntryResponse"/>
  </message>
  <message name="approveEntry">
    <part name="parameters" element="tns:approveEntry"/>
  </message>
  <message name="approveEntryResponse">
    <part name="parameters" element="tns:approveEntryResponse"/>
  </message>
  <message name="deprecateEntry">

```

```

<part name="parameters" element="tns:deprecateEntry"/>
</message>
<message name="deprecateEntryResponse">
<part name="parameters" element="tns:deprecateEntryResponse"/>
</message>
<message name="relocateEntry">
<part name="parameters" element="tns:relocateEntry"/>
</message>
<message name="relocateEntryResponse">
<part name="parameters" element="tns:relocateEntryResponse"/>
</message>
<message name="undepricateEntry">
<part name="parameters" element="tns:undepricateEntry"/>
</message>
<message name="undepricateEntryResponse">
<part name="parameters" element="tns:undepricateEntryResponse"/>
</message>
<portType name="IMetadataMgtImpl">
<operation name="registerEntry">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/I
MetadataMgtImpl/registerEntryRequest" message="tns:registerEntry"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/I
MetadataMgtImpl/registerEntryResponse"
message="tns:registerEntryResponse"/>
</operation>
<operation name="updateEntry">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/I
MetadataMgtImpl/updateEntryRequest" message="tns:updateEntry"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/I
MetadataMgtImpl/updateEntryResponse" message="tns:updateEntryResponse"/>
</operation>
<operation name="removeEntry">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/I
MetadataMgtImpl/removeEntryRequest" message="tns:removeEntry"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi

```



```

one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/IMetadataMgtImpl/removeEntryResponse" message="tns:removeEntryResponse"/>
</operation>
<operation name="approveEntry">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/IMetadataMgtImpl/approveEntryRequest" message="tns:approveEntry"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/IMetadataMgtImpl/approveEntryResponse"
message="tns:approveEntryResponse"/>
</operation>
<operation name="deprecateEntry">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/IMetadataMgtImpl/deprecateEntryRequest" message="tns:deprecateEntry"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/IMetadataMgtImpl/deprecateEntryResponse"
message="tns:deprecateEntryResponse"/>
</operation>
<operation name="relocateEntry">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/IMetadataMgtImpl/relocateEntryRequest" message="tns:relocateEntry"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/IMetadataMgtImpl/relocateEntryResponse"
message="tns:relocateEntryResponse"/>
</operation>
<operation name="undeprecateEntry">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/IMetadataMgtImpl/undeprecateEntryRequest"
message="tns:undeprecateEntry"/>

```

```

<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/I
MetadataMgtImpl/undeprecateEntryResponse"
message="tns:undeprecateEntryResponse"/>
</operation>
</portType>
<binding name="IMetadataMgtImplPortBinding" type="tns:IMetadataMgtImpl">
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
<operation name="registerEntry">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="updateEntry">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="removeEntry">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="approveEntry">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="deprecateEntry">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>

```

```

</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="relocateEntry">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="undeprecateEntry">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
</binding>
<service name="IMetadataMgtImpl">
<port name="IMetadataMgtImplPort"
binding="tns:IMetadataMgtImplPortBinding">
<soap:address location="REPLACE_WITH_ACTUAL_URL"/>
</port>
</service>
</definitions>

```

### 3.1.2 IMetadataMgtImpl.xsd\_1.xsd

```

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema
xmlns:ns1="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0">

    <xs:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/"
schemaLocation="IMetadataMgtImpl.xsd_3.xsd"/>

```

```

<xs:element name="Action" type="ns1:ActionType"/>
<xs:element name="Address" type="ns1:PostalAddressType"/>
<xs:element name="AdhocQuery" type="ns1:AdhocQueryType"/>
<xs:element name="Association" type="ns1:AssociationType1"/>
<xs:element name="AuditableEvent" type="ns1:AuditableEventType"/>
<xs:element name="Classification" type="ns1:ClassificationType"/>
<xs:element name="ClassificationNode"
type="ns1:ClassificationNodeType"/>
<xs:element name="ClassificationScheme"
type="ns1:ClassificationSchemeType"/>
<xs:element name="Description" type="ns1:InternationalStringType"/>
<xs:element name="EmailAddress" type="ns1:EmailAddressType"/>
<xs:element name="ExternalIdentifier"
type="ns1:ExternalIdentifierType"/>
<xs:element name="ExternalLink" type="ns1:ExternalLinkType"/>
<xs:element name="ExtrinsicObject" type="ns1:ExtrinsicObjectType"/>
<xs:element name="Federation" type="ns1:FederationType"/>
<xs:element name="Identifiable" type="ns1:IdentifiableType"/>
<xs:element name="InternationalString"
type="ns1:InternationalStringType"/>
<xs:element name="LocalizedString" type="ns1:LocalizedStringType"/>
<xs:element name="Name" type="ns1:InternationalStringType"/>
<xs:element name="Notification" type="ns1:NotificationType"/>
<xs:element name="NotifyAction" type="ns1:NotifyActionType"/>
<xs:element name="ObjectRef" type="ns1:ObjectRefType"/>
<xs:element name="ObjectRefList" type="ns1:ObjectRefListType"/>
<xs:element name="Organization" type="ns1:OrganizationType"/>

```

```
<xs:element name="Person" type="ns1:PersonType"/>
<xs:element name="PersonName" type="ns1:PersonNameType"/>
<xs:element name="PostalAddress" type="ns1:PostalAddressType"/>
<xs:element name="QueryExpression" type="ns1:QueryExpressionType"/>
<xs:element name="Registry" type="ns1:RegistryType"/>
<xs:element name="RegistryObject" type="ns1:RegistryObjectType"/>
<xs:element name="RegistryObjectList"
type="ns1:RegistryObjectListType"/>
<xs:element name="RegistryPackage" type="ns1:RegistryPackageType"/>
<xs:element name="Service" type="ns1:ServiceType"/>
<xs:element name="ServiceBinding" type="ns1:ServiceBindingType"/>
<xs:element name="Slot" type="ns1:SlotType1"/>
<xs:element name="SlotList" type="ns1:SlotListType"/>
<xs:element name="SpecificationLink" type="ns1:SpecificationLinkType"/>
<xs:element name="Subscription" type="ns1:SubscriptionType"/>
<xs:element name="TelephoneNumber" type="ns1:TelephoneNumberType"/>
<xs:element name="UsageDescription" type="ns1:InternationalStringType"/>
<xs:element name="UsageParameter" type="xs:string"/>
<xs:element name="User" type="ns1:UserType"/>
<xs:element name="Value" type="xs:string"/>
<xs:element name="ValueList" type="ns1:ValueListType"/>
</xs:schema>
```

### 3.1.3 IMetadataMgtImpl.xsd\_2.xsd

```
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.w3.org/XML/1998/namespace">

<xs:attribute name="lang" type="xs:string"/>
</xs:schema>
```

### 3.1.4 IMetadataMgtImpl.xsd\_3.xsd

```
<?xml version="1.0" encoding="UTF-8"?>

<xs:schema
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/"
xmlns:ns1="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IMetadataMgt/"
>

    <xs:import namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
schemaLocation="IMetadataMgtImpl.xsd_1.xsd"/>

    <xs:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IMetadataMgtImpl.xsd_2.xsd"/>

    <xs:element name="ApproveObjectsRequest"
type="tns:ApproveObjectsRequest"/>

    <xs:element name="DeprecateObjectsRequest"
type="tns:DeprecateObjectsRequest"/>

    <xs:element name="RegistryError" type="tns:RegistryError"/>

    <xs:element name="RegistryErrorList" type="tns:RegistryErrorList"/>

    <xs:element name="RelocateObjectsRequest"
type="tns:RelocateObjectsRequest"/>

    <xs:element name="RemoveObjectsRequest"
type="tns:RemoveObjectsRequest"/>
```

```

    <xs:element name="SubmitObjectsRequest"
type="tns:SubmitObjectsRequest"/>

    <xs:element name="UndeprecateObjectsRequest"
type="tns:UndeprecateObjectsRequest"/>

    <xs:element name="UpdateObjectsRequest"
type="tns:UpdateObjectsRequest"/>

    <xs:element name="approveEntry" type="tns:approveEntry"/>

    <xs:element name="approveEntryResponse"
type="tns:approveEntryResponse"/>

    <xs:element name="deprecateEntry" type="tns:deprecateEntry"/>

    <xs:element name="deprecateEntryResponse"
type="tns:deprecateEntryResponse"/>

    <xs:element name="registerEntry" type="tns:registerEntry"/>

    <xs:element name="registerEntryResponse"
type="tns:registerEntryResponse"/>

<xs:element name="relocateEntry" type="tns:relocateEntry"/>

<xs:element name="relocateEntryResponse"
type="tns:relocateEntryResponse"/>

<xs:element name="removeEntry" type="tns:removeEntry"/>

<xs:element name="removeEntryResponse" type="tns:removeEntryResponse"/>

<xs:element name="undeprecateEntry" type="tns:undeprecateEntry"/>

<xs:element name="undeprecateEntryResponse"
type="tns:undeprecateEntryResponse"/>

<xs:element name="updateEntry" type="tns:updateEntry"/>

<xs:element name="updateEntryResponse" type="tns:updateEntryResponse"/>

<xs:complexType name="deprecateEntry">
<xs:sequence>
<xs:element name="arg0" type="tns:DeprecateObjectsRequest"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="DeprecateObjectsRequest">
<xs:complexContent>

```

```

<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element ref="ns1:AdhocQuery" minOccurs="0"/>
<xs:element ref="ns1:ObjectRefList" minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="RegistryRequestType">
<xs:sequence>
<xs:element name="RequestSlotList" type="tns:SlotListType"
minOccurs="0"/>
</xs:sequence>
<xs:attribute name="id" type="xs:anyURI"/>
<xs:attribute name="comment" type="xs:string"/>
</xs:complexType>

<xs:complexType name="AdhocQueryType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="QueryExpression" type="tns:QueryExpressionType"
minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="RegistryObjectType">
<xs:complexContent>
<xs:extension base="tns:IdentifiableType">
<xs:sequence>
<xs:element name="Name" type="tns:InternationalStringType"
minOccurs="0"/>
<xs:element name="Description" type="tns:InternationalStringType"
minOccurs="0"/>
<xs:element name="VersionInfo" type="tns:VersionInfoType"
minOccurs="0"/>
<xs:element name="Classification" type="tns:ClassificationType"
minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="ExternalIdentifier" type="tns:ExternalIdentifierType"
minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
<xs:attribute name="lid" type="xs:anyURI"/>
<xs:attribute name="objectType" type="xs:string"/>
<xs:attribute name="status" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```



```

<xs:complexType name="IdentifiableType">
  <xs:sequence>
    <xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
      maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="id" type="xs:anyURI" use="required"/>
  <xs:attribute name="home" type="xs:anyURI"/>
</xs:complexType>

<xs:complexType name="QueryExpressionType" mixed="true">
  <xs:sequence>
    <xs:any processContents="lax" namespace="##other" minOccurs="0"
      maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="queryLanguage" type="xs:string" use="required"/>
</xs:complexType>

<xs:complexType name="NotificationType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="RegistryObjectList"
          type="tns:RegistryObjectListType"/>
      </xs:sequence>
      <xs:attribute name="subscription" type="xs:string" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="RegistryObjectListType">
  <xs:sequence>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:element ref="ns1:Identifiable"/>
      <xs:element ref="ns1:Registry"/>
      <xs:element ref="ns1:User"/>
      <xs:element ref="ns1:RegistryPackage"/>
      <xs:element ref="ns1:SpecificationLink"/>
      <xs:element ref="ns1:RegistryObject"/>
      <xs:element ref="ns1:AdhocQuery"/>
      <xs:element ref="ns1:AuditableEvent"/>
      <xs:element ref="ns1:ExternalIdentifier"/>
      <xs:element ref="ns1:Person"/>
      <xs:element ref="ns1:Association"/>
      <xs:element ref="ns1:Federation"/>
      <xs:element ref="ns1:ServiceBinding"/>
      <xs:element ref="ns1:ExternalLink"/>
      <xs:element ref="ns1:Subscription"/>
      <xs:element ref="ns1:ObjectRef"/>
      <xs:element ref="ns1:ClassificationScheme"/>
      <xs:element ref="ns1:Service"/>
      <xs:element ref="ns1:ClassificationNode"/>
    </xs:choice>
  </xs:sequence>
</xs:complexType>

```

```

<xs:element ref="ns1:ExtrinsicObject"/>
<xs:element ref="ns1:Organization"/>
<xs:element ref="ns1:Classification"/>
</xs:choice>
</xs:sequence>
</xs:complexType>

<xs:complexType name="InternationalStringType">
<xs:sequence>
<xs:element name="LocalizedString" type="tns:LocalizedStringType"
minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="LocalizedStringType">
<xs:sequence/>
<xs:attribute ref="xml:lang"/>
<xs:attribute name="charset" type="xs:anySimpleType"/>
<xs:attribute name="value" type="xs:string" use="required"/>
</xs:complexType>

<xs:complexType name="VersionInfoType">
<xs:sequence/>
<xs:attribute name="versionName" type="xs:string"/>
<xs:attribute name="comment" type="xs:string"/>
</xs:complexType>

<xs:complexType name="ClassificationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="classificationScheme" type="xs:string"/>
<xs:attribute name="classifiedObject" type="xs:string" use="required"/>
<xs:attribute name="classificationNode" type="xs:string"/>
<xs:attribute name="nodeRepresentation" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ExternalIdentifierType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="registryObject" type="xs:string" use="required"/>
<xs:attribute name="identificationScheme" type="xs:string"
use="required"/>
<xs:attribute name="value" type="xs:string" use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

```

<xs:complexType name="SlotType1">
  <xs:sequence>
    <xs:element name="ValueList" type="tns:ValueListType"/>
  </xs:sequence>
  <xs:attribute name="name" type="xs:string" use="required"/>
  <xs:attribute name="slotType" type="xs:string"/>
</xs:complexType>

<xs:complexType name="ValueListType">
  <xs:sequence>
    <xs:element name="Value" type="xs:string" minOccurs="0"
      maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ObjectRefType">
  <xs:complexContent>
    <xs:extension base="tns:IdentifiableType">
      <xs:sequence/>
      <xs:attribute name="createReplica" type="xs:boolean"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="ClassificationSchemeType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="ClassificationNode" type="tns:ClassificationNodeType"
          minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="isInternal" type="xs:boolean" use="required"/>
      <xs:attribute name="nodeType" type="xs:string" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="ClassificationNodeType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="ClassificationNode" type="tns:ClassificationNodeType"
          minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="parent" type="xs:string"/>
      <xs:attribute name="code" type="xs:string"/>
      <xs:attribute name="path" type="xs:string"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

```

<xs:complexType name="ServiceType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="ServiceBinding" type="tns:ServiceBindingType"
minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ServiceBindingType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="SpecificationLink" type="tns:SpecificationLinkType"
minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
<xs:attribute name="service" type="xs:string" use="required"/>
<xs:attribute name="accessURI" type="xs:anyURI"/>
<xs:attribute name="targetBinding" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="SpecificationLinkType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="UsageDescription" type="tns:InternationalStringType"
minOccurs="0"/>
<xs:element name="UsageParameter" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
<xs:attribute name="serviceBinding" type="xs:string" use="required"/>
<xs:attribute name="specificationObject" type="xs:string"
use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="AssociationType1">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="associationType" type="xs:string" use="required"/>
<xs:attribute name="sourceObject" type="xs:string" use="required"/>
<xs:attribute name="targetObject" type="xs:string" use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

```

<xs:complexType name="ExtrinsicObjectType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="ContentVersionInfo" type="tns:VersionInfoType"
minOccurs="0"/>
</xs:sequence>
<xs:attribute name="mimeType" type="xs:string"/>
<xs:attribute name="isOpaque" type="xs:boolean"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="OrganizationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="Address" type="tns:PostalAddressType" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="TelephoneNumber" type="tns:TelephoneNumberType"
minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
<xs:attribute name="parent" type="xs:string"/>
<xs:attribute name="primaryContact" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="PostalAddressType">
<xs:sequence/>
<xs:attribute name="city" type="xs:string"/>
<xs:attribute name="country" type="xs:string"/>
<xs:attribute name="postalCode" type="xs:string"/>
<xs:attribute name="stateOrProvince" type="xs:string"/>
<xs:attribute name="street" type="xs:string"/>
<xs:attribute name="streetNumber" type="xs:string"/>
</xs:complexType>

<xs:complexType name="TelephoneNumberType">
<xs:sequence/>
<xs:attribute name="areaCode" type="xs:string"/>
<xs:attribute name="countryCode" type="xs:string"/>
<xs:attribute name="extension" type="xs:string"/>
<xs:attribute name="number" type="xs:string"/>
<xs:attribute name="phoneType" type="xs:string"/>
</xs:complexType>

<xs:complexType name="EmailAddressType">

```

```

</xs:sequence/>
<xs:attribute name="address" type="xs:string" use="required"/>
<xs:attribute name="type" type="xs:string"/>
</xs:complexType>

<xs:complexType name="RegistryType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="operator" type="xs:string" use="required"/>
<xs:attribute name="specificationVersion" type="xs:string"
use="required"/>
<xs:attribute name="replicationSyncLatency" type="xs:duration"/>
<xs:attribute name="catalogingLatency" type="xs:duration"/>
<xs:attribute name="conformanceProfile" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="FederationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="replicationSyncLatency" type="xs:duration"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="RegistryPackageType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="RegistryObjectList" type="tns:RegistryObjectListType"
minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ExternalLinkType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="externalURI" type="xs:anyURI" use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="AuditableEventType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">

```

```

<xs:sequence>
<xs:element name="affectedObjects" type="tns:ObjectRefListType"/>
</xs:sequence>
<xs:attribute name="eventType" type="xs:string" use="required"/>
<xs:attribute name="timestamp" type="xs:dateTime" use="required"/>
<xs:attribute name="user" type="xs:string" use="required"/>
<xs:attribute name="requestId" type="xs:string" use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ObjectRefListType">
<xs:sequence>
<xs:element name="ObjectRef" type="tns:ObjectRefType" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="SubscriptionType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:choice minOccurs="0" maxOccurs="unbounded">
<xs:element ref="ns1:Action"/>
<xs:element ref="ns1:NotifyAction"/>
</xs:choice>
</xs:sequence>
<xs:attribute name="selector" type="xs:string" use="required"/>
<xs:attribute name="startTime" type="xs:dateTime"/>
<xs:attribute name="endTime" type="xs:dateTime"/>
<xs:attribute name="notificationInterval" type="xs:duration"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="PersonType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="Address" type="tns:PostalAddressType" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="PersonName" type="tns:PersonNameType" minOccurs="0"/>
<xs:element name="TelephoneNumber" type="tns:TelephoneNumberType"
minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

```

<xs:complexType name="PersonNameType">
  <xs:sequence/>
  <xs:attribute name="firstName" type="xs:string"/>
  <xs:attribute name="middleName" type="xs:string"/>
  <xs:attribute name="lastName" type="xs:string"/>
</xs:complexType>

<xs:complexType name="UserType">
  <xs:complexContent>
  <xs:extension base="tns:PersonType">
  <xs:sequence/>
  </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="SlotListType">
  <xs:sequence>
  <xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
  maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="TelephoneNumberListType">
  <xs:sequence>
  <xs:element name="TelephoneNumber" type="tns:TelephoneNumberType"
  minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="NotifyActionType">
  <xs:complexContent>
  <xs:extension base="tns:ActionType">
  <xs:sequence/>
  <xs:attribute name="notificationOption" type="xs:string"/>
  <xs:attribute name="endPoint" type="xs:anyURI" use="required"/>
  </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="ActionType" abstract="true">
  <xs:sequence/>
</xs:complexType>

<xs:complexType name="deprecateEntryResponse">
  <xs:sequence>
  <xs:element name="return" type="tns:RegistryResponseType"
  minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="RegistryResponseType">

```



```

<xs:sequence>
<xs:element name="ResponseSlotList" type="tns:SlotListType"
minOccurs="0"/>
<xs:element name="RegistryErrorList" type="tns:RegistryErrorList"
minOccurs="0"/>
</xs:sequence>
<xs:attribute name="status" type="xs:string" use="required"/>
<xs:attribute name="requestId" type="xs:anyURI"/>
</xs:complexType>

<xs:complexType name="RegistryErrorList">
<xs:sequence>
<xs:element name="RegistryError" type="tns:RegistryError"
maxOccurs="unbounded"/>
</xs:sequence>
<xs:attribute name="highestSeverity" type="xs:string"/>
</xs:complexType>

<xs:complexType name="RegistryError">
<xs:simpleContent>
<xs:extension base="xs:string">
<xs:attribute name="codeContext" type="xs:string" use="required"/>
<xs:attribute name="errorCode" type="xs:string" use="required"/>
<xs:attribute name="severity" type="xs:string"/>
<xs:attribute name="location" type="xs:string"/>
</xs:extension>
</xs:simpleContent>
</xs:complexType>

<xs:complexType name="approveEntry">
<xs:sequence>
<xs:element name="arg0" type="tns:ApproveObjectsRequest" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="ApproveObjectsRequest">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element ref="ns1:AdhocQuery" minOccurs="0"/>
<xs:element ref="ns1:ObjectRefList" minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="approveEntryResponse">
<xs:sequence>
<xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0"/>
</xs:sequence>

```

```

</xs:complexType>

<xs:complexType name="removeEntry">
<xs:sequence>
<xs:element name="arg0" type="tns:RemoveObjectsRequest" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="RemoveObjectsRequest">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element ref="ns1:AdhocQuery" minOccurs="0"/>
<xs:element ref="ns1:ObjectRefList" minOccurs="0"/>
</xs:sequence>
<xs:attribute name="deletionScope" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="removeEntryResponse">
<xs:sequence>
<xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="undeprecateEntry">
<xs:sequence>
<xs:element name="arg0" type="tns:UndeprecateObjectsRequest"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="UndeprecateObjectsRequest">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element ref="ns1:AdhocQuery" minOccurs="0"/>
<xs:element ref="ns1:ObjectRefList" minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="undeprecateEntryResponse">
<xs:sequence>
<xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>

```

```

<xs:complexType name="relocateEntry">
  <xs:sequence>
    <xs:element name="arg0" type="tns:RelocateObjectsRequest"
      minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="RelocateObjectsRequest">
  <xs:complexContent>
    <xs:extension base="tns:RegistryRequestType">
      <xs:sequence>
        <xs:element ref="ns1:AdhocQuery"/>
        <xs:element name="SourceRegistry" type="tns:ObjectRefType"/>
        <xs:element name="DestinationRegistry" type="tns:ObjectRefType"/>
        <xs:element name="OwnerAtSource" type="tns:ObjectRefType"/>
        <xs:element name="OwnerAtDestination" type="tns:ObjectRefType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="relocateEntryResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType"
      minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="updateEntry">
  <xs:sequence>
    <xs:element name="arg0" type="tns:UpdateObjectsRequest" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="UpdateObjectsRequest">
  <xs:complexContent>
    <xs:extension base="tns:RegistryRequestType">
      <xs:sequence>
        <xs:element ref="ns1:RegistryObjectList"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="updateEntryResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType"
      minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

```
<xs:complexType name="registerEntry">
  <xs:sequence>
    <xs:element name="arg0" type="tns:SubmitObjectsRequest" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SubmitObjectsRequest">
  <xs:complexContent>
    <xs:extension base="tns:RegistryRequestType">
      <xs:sequence>
        <xs:element ref="ns1:RegistryObjectList"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="registerEntryResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType"
      minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
</xs:schema>
```

## 3.2 Interfaccia IQueryMgt

L'interfaccia *IQueryMgt* consente di sottoporre query ad uno specifico registro o ad una federazione di registri.

In Figura 7 è riportata una rappresentazione UML dell'interfaccia.

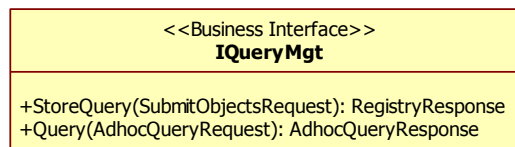


Figura 7. Interfaccia IQueryMgt

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IQueryMgt*, con i relativi schemi XSD.

### 3.2.1 IQueryMgtImpl.wsdl

```
<definitions xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IQueryMgt/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.xmlsoap.org/wsdl/"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IQueryMgt/"
name="IQueryMgtImpl">
  <types>
    <xsd:schema>
      <xsd:import namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0" schemaLocation="IQueryMgtImpl.xsd_1.xsd"/>
    </xsd:schema>
    <xsd:schema>
      <xsd:import namespace="http://www.w3.org/XML/1998/namespace" schemaLocation="IQueryMgtImpl.xsd_2.xsd"/>
    </xsd:schema>
  </types>

```

```

        <xsd:schema>
            <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IQueryMgt/"
schemaLocation="IQueryMgtImpl.xsd_3.xsd"/>
        </xsd:schema>
    </types>
    <message name="query">
        <part name="parameters" element="tns:query"/>
    </message>
    <message name="queryResponse">
        <part name="parameters" element="tns:queryResponse"/>
    </message>
    <message name="storeQuery">
        <part name="parameters" element="tns:storeQuery"/>
    </message>
    <message name="storeQueryResponse">
        <part name="parameters" element="tns:storeQueryResponse"/>
    </message>
    <portType name="IQueryMgtImpl">
        <operation name="query">
            <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IQueryMgt/IQue
ryMgtImpl/queryRequest" message="tns:query"/>
            <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IQueryMgt/IQue
ryMgtImpl/queryResponse" message="tns:queryResponse"/>
            </operation>
            <operation name="storeQuery">
                <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IQueryMgt/IQue
ryMgtImpl/storeQueryRequest" message="tns:storeQuery"/>
                <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IQueryMgt/IQue
ryMgtImpl/storeQueryResponse" message="tns:storeQueryResponse"/>
                </operation>
            </portType>
            <binding name="IQueryMgtImplPortBinding" type="tns:IQueryMgtImpl">
                <soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
                <operation name="query">
                    <soap:operation soapAction=""/>
                    <input>

```

```

        <soap:body use="literal"/>
    </input>
    <output>
        <soap:body use="literal"/>
    </output>
</operation>
<operation name="storeQuery">
    <soap:operation soapAction=""/>
    <input>
        <soap:body use="literal"/>
    </input>
    <output>
        <soap:body use="literal"/>
    </output>
</operation>
</binding>
<service name="IQueryMgtImpl">
    <port name="IQueryMgtImplPort"
binding="tns:IQueryMgtImplPortBinding">
        <soap:address location="REPLACE_WITH_ACTUAL_URL"/>
    </port>
</service>
</definitions>

```

### 3.2.2 IQueryMgtImpl.xsd\_1.xsd

```

<xs:schema
xmlns:ns1="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IQueryMgt/"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0">
    <xs:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IQueryMgt/"
schemaLocation="IQueryMgtImpl.xsd_3.xsd" />
    <xs:element name="Action" type="ns1:ActionType" />
    <xs:element name="Address" type="ns1:PostalAddressType" />
    <xs:element name="AdhocQuery" type="ns1:AdhocQueryType" />
    <xs:element name="Association" type="ns1:AssociationType1" />
    <xs:element name="AuditableEvent" type="ns1:AuditableEventType" />
    <xs:element name="Classification" type="ns1:ClassificationType" />
    <xs:element name="ClassificationNode"
type="ns1:ClassificationNodeType" />
    <xs:element name="ClassificationScheme"
type="ns1:ClassificationSchemeType" />
    <xs:element name="Description" type="ns1:InternationalStringType" />
    <xs:element name="EmailAddress" type="ns1:EmailAddressType" />

```

```

    <xs:element name="ExternalIdentifier"
type="ns1:ExternalIdentifierType" />
    <xs:element name="ExternalLink" type="ns1:ExternalLinkType" />
    <xs:element name="ExtrinsicObject" type="ns1:ExtrinsicObjectType" />
    <xs:element name="Federation" type="ns1:FederationType" />
    <xs:element name="Identifiable" type="ns1:IdentifiableType" />
    <xs:element name="InternationalString"
type="ns1:InternationalStringType" />
    <xs:element name="LocalizedString" type="ns1:LocalizedStringType" />
    <xs:element name="Name" type="ns1:InternationalStringType" />
    <xs:element name="Notification" type="ns1:NotificationType" />
    <xs:element name="NotifyAction" type="ns1:NotifyActionType" />
    <xs:element name="ObjectRef" type="ns1:ObjectRefType" />
    <xs:element name="ObjectRefList" type="ns1:ObjectRefListType" />
    <xs:element name="Organization" type="ns1:OrganizationType" />
    <xs:element name="Person" type="ns1:PersonType" />
    <xs:element name="PersonName" type="ns1:PersonNameType" />
    <xs:element name="PostalAddress" type="ns1:PostalAddressType" />
    <xs:element name="QueryExpression" type="ns1:QueryExpressionType" />
    <xs:element name="Registry" type="ns1:RegistryType" />
    <xs:element name="RegistryObject" type="ns1:RegistryObjectType" />
    <xs:element name="RegistryObjectList"
type="ns1:RegistryObjectListType" />
    <xs:element name="RegistryPackage" type="ns1:RegistryPackageType" />
    <xs:element name="Service" type="ns1:ServiceType" />
    <xs:element name="ServiceBinding" type="ns1:ServiceBindingType" />
    <xs:element name="Slot" type="ns1:SlotType1" />
    <xs:element name="SlotList" type="ns1:SlotListType" />
    <xs:element name="SpecificationLink" type="ns1:SpecificationLinkType"
/>
    <xs:element name="Subscription" type="ns1:SubscriptionType" />
    <xs:element name="TelephoneNumber" type="ns1:TelephoneNumberType" />
    <xs:element name="UsageDescription"
type="ns1:InternationalStringType" />
    <xs:element name="UsageParameter" type="xs:string" />
    <xs:element name="User" type="ns1:UserType" />
    <xs:element name="Value" type="xs:string" />
    <xs:element name="ValueList" type="ns1:ValueListType" />
</xs:schema>

```

### 3.2.3 IQueryMgtImpl.xsd\_2.xsd

```

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.w3.org/XML/1998/namespace">
    <xs:attribute name="lang" type="xs:string" />
</xs:schema>

```



### 3.2.4 IQueryMgtImpl.xsd\_3.xsd

```
<xs:schema
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IQueryMgt/"
xmlns:ns1="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IQueryMgt/">
  <xs:import namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
schemaLocation="IQueryMgtImpl.xsd_1.xsd"/>
  <xs:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IQueryMgtImpl.xsd_2.xsd"/>
  <xs:element name="AdhocQueryRequest" type="tns:AdhocQueryRequest"/>
  <xs:element name="AdhocQueryResponse" type="tns:AdhocQueryResponse"/>
  <xs:element name="RegistryError" type="tns:RegistryError"/>
  <xs:element name="RegistryErrorList" type="tns:RegistryErrorList"/>
  <xs:element name="SubmitObjectsRequest"
type="tns:SubmitObjectsRequest"/>
  <xs:element name="query" type="tns:query"/>
  <xs:element name="queryResponse" type="tns:queryResponse"/>
  <xs:element name="storeQuery" type="tns:storeQuery"/>
  <xs:element name="storeQueryResponse" type="tns:storeQueryResponse"/>
  <xs:complexType name="storeQuery">
    <xs:sequence>
      <xs:element name="arg0" type="tns:SubmitObjectsRequest"
minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="SubmitObjectsRequest">
    <xs:complexContent>
      <xs:extension base="tns:RegistryRequestType">
        <xs:sequence>
          <xs:element ref="ns1:RegistryObjectList"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="RegistryRequestType">
    <xs:sequence>
      <xs:element name="RequestSlotList" type="tns:SlotListType"
minOccurs="0"/>
    </xs:sequence>
    <xs:attribute name="id" type="xs:anyURI"/>
    <xs:attribute name="comment" type="xs:string"/>
  </xs:complexType>
  <xs:complexType name="RegistryObjectListType">
    <xs:sequence>
      <xs:choice minOccurs="0" maxOccurs="unbounded">
```

```

        <xs:element ref="ns1:Identifiable"/>
        <xs:element ref="ns1:Registry"/>
        <xs:element ref="ns1:User"/>
        <xs:element ref="ns1:Person"/>
        <xs:element ref="ns1:ExtrinsicObject"/>
        <xs:element ref="ns1:Federation"/>
        <xs:element ref="ns1:Service"/>
        <xs:element ref="ns1:ServiceBinding"/>
        <xs:element ref="ns1:Association"/>
        <xs:element ref="ns1:Classification"/>
        <xs:element ref="ns1:ClassificationScheme"/>
        <xs:element ref="ns1:ExternalIdentifier"/>
        <xs:element ref="ns1:ExternalLink"/>
        <xs:element ref="ns1:Organization"/>
        <xs:element ref="ns1:RegistryPackage"/>
        <xs:element ref="ns1:SpecificationLink"/>
        <xs:element ref="ns1:Subscription"/>
        <xs:element ref="ns1:ObjectRef"/>
        <xs:element ref="ns1:RegistryObject"/>
        <xs:element ref="ns1:AdhocQuery"/>
        <xs:element ref="ns1:AuditableEvent"/>
        <xs:element ref="ns1:ClassificationNode"/>
    </xs:choice>
</xs:sequence>
</xs:complexType>
<xs:complexType name="NotificationType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:element name="RegistryObjectList"
type="tns:RegistryObjectListType"/>
            </xs:sequence>
            <xs:attribute name="subscription" type="xs:string"
use="required"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="RegistryObjectType">
    <xs:complexContent>
        <xs:extension base="tns:IdentifiableType">
            <xs:sequence>
                <xs:element name="Name"
type="tns:InternationalStringType" minOccurs="0"/>
                <xs:element name="Description"
type="tns:InternationalStringType" minOccurs="0"/>
                <xs:element name="VersionInfo"
type="tns:VersionInfoType" minOccurs="0"/>
                <xs:element name="Classification"
type="tns:ClassificationType" minOccurs="0" maxOccurs="unbounded"/>
                <xs:element name="ExternalIdentifier"
type="tns:ExternalIdentifierType" minOccurs="0" maxOccurs="unbounded"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        <xs:attribute name="lid" type="xs:anyURI"/>
        <xs:attribute name="objectType" type="xs:string"/>
        <xs:attribute name="status" type="xs:string"/>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="IdentifiableType">
    <xs:sequence>
        <xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="id" type="xs:anyURI" use="required"/>
    <xs:attribute name="home" type="xs:anyURI"/>
</xs:complexType>
<xs:complexType name="InternationalStringType">
    <xs:sequence>
        <xs:element name="LocalizedString"
type="tns:LocalizedStringType" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="LocalizedStringType">
    <xs:sequence/>
    <xs:attribute ref="xml:lang"/>
    <xs:attribute name="charset" type="xs:anySimpleType"/>
    <xs:attribute name="value" type="xs:string" use="required"/>
</xs:complexType>
<xs:complexType name="VersionInfoType">
    <xs:sequence/>
    <xs:attribute name="versionName" type="xs:string"/>
    <xs:attribute name="comment" type="xs:string"/>
</xs:complexType>
<xs:complexType name="ClassificationType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence/>
            <xs:attribute name="classificationScheme"
type="xs:string"/>
            <xs:attribute name="classifiedObject" type="xs:string"
use="required"/>
            <xs:attribute name="classificationNode"
type="xs:string"/>
            <xs:attribute name="nodeRepresentation"
type="xs:string"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="ExternalIdentifierType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence/>
            <xs:attribute name="registryObject" type="xs:string"
use="required"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        <xs:attribute name="identificationScheme"
type="xs:string" use="required"/>
        <xs:attribute name="value" type="xs:string"
use="required"/>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="SlotType1">
    <xs:sequence>
        <xs:element name="ValueList" type="tns:ValueListType"/>
    </xs:sequence>
    <xs:attribute name="name" type="xs:string" use="required"/>
    <xs:attribute name="slotType" type="xs:string"/>
</xs:complexType>
<xs:complexType name="ValueListType">
    <xs:sequence>
        <xs:element name="Value" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ObjectRefType">
    <xs:complexContent>
        <xs:extension base="tns:IdentifiableType">
            <xs:sequence/>
            <xs:attribute name="createReplica" type="xs:boolean"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="ClassificationSchemeType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:element name="ClassificationNode"
type="tns:ClassificationNodeType" minOccurs="0" maxOccurs="unbounded"/>
            </xs:sequence>
            <xs:attribute name="isInternal" type="xs:boolean"
use="required"/>
            <xs:attribute name="nodeType" type="xs:string"
use="required"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="ClassificationNodeType">
    <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
            <xs:sequence>
                <xs:element name="ClassificationNode"
type="tns:ClassificationNodeType" minOccurs="0" maxOccurs="unbounded"/>
            </xs:sequence>
            <xs:attribute name="parent" type="xs:string"/>
            <xs:attribute name="code" type="xs:string"/>
            <xs:attribute name="path" type="xs:string"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        </xs:complexContent>
    </xs:complexType>
    <xs:complexType name="ServiceType">
        <xs:complexContent>
            <xs:extension base="tns:RegistryObjectType">
                <xs:sequence>
                    <xs:element name="ServiceBinding"
type="tns:ServiceBindingType" minOccurs="0" maxOccurs="unbounded"/>
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:complexType name="ServiceBindingType">
        <xs:complexContent>
            <xs:extension base="tns:RegistryObjectType">
                <xs:sequence>
                    <xs:element name="SpecificationLink"
type="tns:SpecificationLinkType" minOccurs="0" maxOccurs="unbounded"/>
                    <xs:attribute name="service" type="xs:string"
use="required"/>
                    <xs:attribute name="accessURI" type="xs:anyURI"/>
                    <xs:attribute name="targetBinding" type="xs:string"/>
                </xs:extension>
            </xs:complexContent>
        </xs:complexType>
    <xs:complexType name="SpecificationLinkType">
        <xs:complexContent>
            <xs:extension base="tns:RegistryObjectType">
                <xs:sequence>
                    <xs:element name="UsageDescription"
type="tns:InternationalStringType" minOccurs="0"/>
                    <xs:element name="UsageParameter" type="xs:string"
minOccurs="0" maxOccurs="unbounded"/>
                </xs:sequence>
                <xs:attribute name="serviceBinding" type="xs:string"
use="required"/>
                <xs:attribute name="specificationObject" type="xs:string"
use="required"/>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:complexType name="AssociationType1">
        <xs:complexContent>
            <xs:extension base="tns:RegistryObjectType">
                <xs:sequence/>
                <xs:attribute name="associationType" type="xs:string"
use="required"/>
                <xs:attribute name="sourceObject" type="xs:string"
use="required"/>
                <xs:attribute name="targetObject" type="xs:string"
use="required"/>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>

```

```

    </xs:complexContent>
</xs:complexType>
<xs:complexType name="ExtrinsicObjectType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="ContentVersionInfo"
type="tns:VersionInfoType" minOccurs="0"/>
      </xs:sequence>
      <xs:attribute name="mimeType" type="xs:string"/>
      <xs:attribute name="isOpaque" type="xs:boolean"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="OrganizationType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="Address"
type="tns:PostalAddressType" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="EmailAddress"
type="tns:EmailAddressType" minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="parent" type="xs:string"/>
      <xs:attribute name="primaryContact" type="xs:string"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="PostalAddressType">
  <xs:sequence/>
  <xs:attribute name="city" type="xs:string"/>
  <xs:attribute name="country" type="xs:string"/>
  <xs:attribute name="postalCode" type="xs:string"/>
  <xs:attribute name="stateOrProvince" type="xs:string"/>
  <xs:attribute name="street" type="xs:string"/>
  <xs:attribute name="streetNumber" type="xs:string"/>
</xs:complexType>
<xs:complexType name="TelephoneNumberType">
  <xs:sequence/>
  <xs:attribute name="areaCode" type="xs:string"/>
  <xs:attribute name="countryCode" type="xs:string"/>
  <xs:attribute name="extension" type="xs:string"/>
  <xs:attribute name="number" type="xs:string"/>
  <xs:attribute name="phoneType" type="xs:string"/>
</xs:complexType>
<xs:complexType name="EmailAddressType">
  <xs:sequence/>
  <xs:attribute name="address" type="xs:string" use="required"/>
  <xs:attribute name="type" type="xs:string"/>
</xs:complexType>

```

```

<xs:complexType name="AdhocQueryType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="QueryExpression"
type="tns:QueryExpressionType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="QueryExpressionType" mixed="true">
  <xs:sequence>
    <xs:any processContents="lax" namespace="##other"
minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="queryLanguage" type="xs:string"
use="required"/>
</xs:complexType>
<xs:complexType name="RegistryType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence/>
      <xs:attribute name="operator" type="xs:string"
use="required"/>
      <xs:attribute name="specificationVersion"
type="xs:string" use="required"/>
      <xs:attribute name="replicationSyncLatency"
type="xs:duration"/>
      <xs:attribute name="catalogingLatency"
type="xs:duration"/>
      <xs:attribute name="conformanceProfile"
type="xs:string"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="FederationType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence/>
      <xs:attribute name="replicationSyncLatency"
type="xs:duration"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="RegistryPackageType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="RegistryObjectList"
type="tns:RegistryObjectListType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>

```

```

</xs:complexType>
<xs:complexType name="ExternalLinkType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence/>
      <xs:attribute name="externalURI" type="xs:anyURI"
use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="AuditableEventType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="affectedObjects"
type="tns:ObjectRefListType"/>
      </xs:sequence>
      <xs:attribute name="eventType" type="xs:string"
use="required"/>
      <xs:attribute name="timestamp" type="xs:dateTime"
use="required"/>
      <xs:attribute name="user" type="xs:string"
use="required"/>
      <xs:attribute name="requestId" type="xs:string"
use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ObjectRefListType">
  <xs:sequence>
    <xs:element name="ObjectRef" type="tns:ObjectRefType"
minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="SubscriptionType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:choice minOccurs="0" maxOccurs="unbounded">
          <xs:element ref="ns1:Action"/>
          <xs:element ref="ns1:NotifyAction"/>
        </xs:choice>
      </xs:sequence>
      <xs:attribute name="selector" type="xs:string"
use="required"/>
      <xs:attribute name="startTime" type="xs:dateTime"/>
      <xs:attribute name="endTime" type="xs:dateTime"/>
      <xs:attribute name="notificationInterval"
type="xs:duration"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="PersonType">

```



```

    <xs:complexContent>
      <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
          <xs:element name="Address"
type="tns:PostalAddressType" minOccurs="0" maxOccurs="unbounded"/>
          <xs:element name="PersonName"
type="tns:PersonNameType" minOccurs="0"/>
          <xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded"/>
          <xs:element name="EmailAddress"
type="tns:EmailAddressType" minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="PersonNameType">
    <xs:sequence/>
    <xs:attribute name="firstName" type="xs:string"/>
    <xs:attribute name="middleName" type="xs:string"/>
    <xs:attribute name="lastName" type="xs:string"/>
  </xs:complexType>
  <xs:complexType name="UserType">
    <xs:complexContent>
      <xs:extension base="tns:PersonType">
        <xs:sequence/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="SlotListType">
    <xs:sequence>
      <xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="TelephoneNumberListType">
    <xs:sequence>
      <xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="NotifyActionType">
    <xs:complexContent>
      <xs:extension base="tns:ActionType">
        <xs:sequence/>
        <xs:attribute name="notificationOption"
type="xs:string"/>
        <xs:attribute name="endPoint" type="xs:anyURI"
use="required"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="ActionType" abstract="true">
    <xs:sequence/>

```

```

</xs:complexType>
<xs:complexType name="storeQueryResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="RegistryResponseType">
  <xs:sequence>
    <xs:element name="ResponseSlotList" type="tns:SlotListType"
minOccurs="0"/>
    <xs:element name="RegistryErrorList"
type="tns:RegistryErrorList" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="status" type="xs:string" use="required"/>
  <xs:attribute name="requestId" type="xs:anyURI"/>
</xs:complexType>
<xs:complexType name="RegistryErrorList">
  <xs:sequence>
    <xs:element name="RegistryError" type="tns:RegistryError"
maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="highestSeverity" type="xs:string"/>
</xs:complexType>
<xs:complexType name="RegistryError">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="codeContext" type="xs:string"
use="required"/>
      <xs:attribute name="errorCode" type="xs:string"
use="required"/>
      <xs:attribute name="severity" type="xs:string"/>
      <xs:attribute name="location" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:complexType name="query">
  <xs:sequence>
    <xs:element name="arg0" type="tns:AdhocQueryRequest"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="AdhocQueryRequest">
  <xs:complexContent>
    <xs:extension base="tns:RegistryRequestType">
      <xs:sequence>
        <xs:element name="ResponseOption"
type="tns:ResponseOptionType"/>
        <xs:element ref="ns1:AdhocQuery"/>
      </xs:sequence>
      <xs:attribute name="federated" type="xs:boolean"/>
      <xs:attribute name="federation" type="xs:anyURI"/>
      <xs:attribute name="startIndex" type="xs:integer"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

```

        <xs:attribute name="maxResults" type="xs:integer"/>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="ResponseOptionType">
    <xs:sequence/>
    <xs:attribute name="returnType" type="xs:string"/>
    <xs:attribute name="returnComposedObjects" type="xs:boolean"/>
</xs:complexType>
<xs:complexType name="queryResponse">
    <xs:sequence>
        <xs:element name="return" type="tns:AdhocQueryResponse"
minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="AdhocQueryResponse">
    <xs:complexContent>
        <xs:extension base="tns:RegistryResponseType">
            <xs:sequence>
                <xs:element ref="ns1:RegistryObjectList"/>
            </xs:sequence>
            <xs:attribute name="startIndex" type="xs:integer"/>
            <xs:attribute name="totalResultCount" type="xs:integer"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
</xs:schema>

```

### 3.3 Interfaccia IEventMgt

L'interfaccia *IEventMgt* permette la notifica di eventi tra i registri della federazione. In Figura 8 è riportata una rappresentazione UML dell'interfaccia.

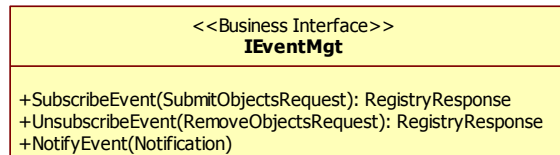


Figura 8. Interfaccia IEventMgt

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IEventMgt*, con i relativi schemi XSD.

#### 3.3.1 IEventMgtImpl.wsdl

```
<?xml version="1.0" encoding="UTF-8"?>
<definitions xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IEventMgt/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.xmlsoap.org/wsdl/"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IEventMgt/"
name="IEventMgtImpl">
  <types>
    <xsd:schema>
      <xsd:import namespace="urn:oasis:names:tc:ebxml-
regrep:xsd:rim:3.0" schemaLocation="IEventMgtImpl.xsd_1.xsd"/>
    </xsd:schema>
    <xsd:schema>
      <xsd:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IEventMgtImpl.xsd_2.xsd"/>
    </xsd:schema>
  </types>
  <portType name="IEventMgtImpl" base="tns:IEventMgt">
    <operation name="SubscribeEvent" message="tns:SubscribeEventRequest"
output="tns:RegistryResponse"/>
    <operation name="UnsubscribeEvent" message="tns:UnsubscribeEventRequest"
output="tns:RegistryResponse"/>
    <operation name="NotifyEvent" message="tns:NotifyEventRequest"
output="tns:Notification"/>
  </portType>
  <binding name="IEventMgtImplSoap" type="tns:IEventMgtImpl" soap:binding="soap:soap11"/>
  <service name="IEventMgtImpl" base="tns:IEventMgtImpl" soap:binding="IEventMgtImplSoap">
    <operation name="SubscribeEvent" message="tns:SubscribeEventRequest"
output="tns:RegistryResponse"/>
    <operation name="UnsubscribeEvent" message="tns:UnsubscribeEventRequest"
output="tns:RegistryResponse"/>
    <operation name="NotifyEvent" message="tns:NotifyEventRequest"
output="tns:Notification"/>
  </service>

```

```

        </xsd:schema>
        <xsd:schema>
            <xsd:import
namespaces="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEventMgt/"
schemaLocation="IEventMgtImpl.xsd_3.xsd"/>
            </xsd:schema>
        </types>
        <message name="subscribeEvent">
            <part name="parameters" element="tns:subscribeEvent"/>
        </message>
        <message name="subscribeEventResponse">
            <part name="parameters" element="tns:subscribeEventResponse"/>
        </message>
        <message name="unsubscribeEvent">
            <part name="parameters" element="tns:unsubscribeEvent"/>
        </message>
        <message name="unsubscribeEventResponse">
            <part name="parameters" element="tns:unsubscribeEventResponse"/>
        </message>
        <message name="notifyEvent">
            <part name="parameters" element="tns:notifyEvent"/>
        </message>
        <message name="notifyEventResponse">
            <part name="parameters" element="tns:notifyEventResponse"/>
        </message>
        <portType name="IEventMgtImpl">
            <operation name="subscribeEvent">
                <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEventMgt/IEve
ntMgtImpl/subscribeEventRequest" message="tns:subscribeEvent"/>
                <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEventMgt/IEve
ntMgtImpl/subscribeEventResponse" message="tns:subscribeEventResponse"/>
                </operation>
            <operation name="unsubscribeEvent">
                <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEventMgt/IEve
ntMgtImpl/unsubscribeEventRequest" message="tns:unsubscribeEvent"/>
                <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEventMgt/IEve

```

```

ntMgtImpl/unsubscribeEventResponse"
message="tns:unsubscribeEventResponse"/>
    </operation>
    <operation name="notifyEvent">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEventMgt/IEve
ntMgtImpl/notifyEventRequest" message="tns:notifyEvent"/>
            <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEventMgt/IEve
ntMgtImpl/notifyEventResponse" message="tns:notifyEventResponse"/>
                </operation>
            </portType>
            <binding name="IEventMgtImplPortBinding"
type="tns:IEventMgtImpl">
                <soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
                <operation name="subscribeEvent">
                    <soap:operation soapAction=""/>
                    <input>
                    <soap:body use="literal"/>
                    </input>
                    <output>
                    <soap:body use="literal"/>
                    </output>
                </operation>
                <operation name="unsubscribeEvent">
                    <soap:operation soapAction=""/>
                    <input>
                    <soap:body use="literal"/>
                    </input>
                    <output>
                    <soap:body use="literal"/>
                    </output>
                </operation>
                <operation name="notifyEvent">
                    <soap:operation soapAction=""/>
                    <input>
                    <soap:body use="literal"/>
                    </input>
                    <output>
                    <soap:body use="literal"/>
                    </output>
                </operation>
            </binding>
            <service name="IEventMgtImpl">
                <port name="IEventMgtImplPort"
binding="tns:IEventMgtImplPortBinding">

```

```

    <soap:address location="REPLACE_WITH_ACTUAL_URL"/>
  </port>
</service>
</definitions>

```

### 3.3.2 IEventMgtImpl.xsd\_1.xsd

```

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema
xmlns:ns1="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEventMgt/"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0">

  <xs:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IEventMgt/"
schemaLocation="IEventMgtImpl.xsd_3.xsd"/>

  <xs:element name="Action" type="ns1:ActionType"/>

  <xs:element name="Address" type="ns1:PostalAddressType"/>

  <xs:element name="AdhocQuery" type="ns1:AdhocQueryType"/>

  <xs:element name="Association" type="ns1:AssociationType1"/>

  <xs:element name="AuditableEvent" type="ns1:AuditableEventType"/>

  <xs:element name="Classification" type="ns1:ClassificationType"/>

  <xs:element name="ClassificationNode"
type="ns1:ClassificationNodeType"/>

  <xs:element name="ClassificationScheme"
type="ns1:ClassificationSchemeType"/>

  <xs:element name="Description" type="ns1:InternationalStringType"/>

  <xs:element name="EmailAddress" type="ns1:EmailAddressType"/>

  <xs:element name="ExternalIdentifier"
type="ns1:ExternalIdentifierType"/>

  <xs:element name="ExternalLink" type="ns1:ExternalLinkType"/>

```

```
<xs:element name="ExtrinsicObject" type="ns1:ExtrinsicObjectType"/>
<xs:element name="Federation" type="ns1:FederationType"/>
<xs:element name="Identifiable" type="ns1:IdentifiableType"/>
<xs:element name="InternationalString"
type="ns1:InternationalStringType"/>
<xs:element name="LocalizedString" type="ns1:LocalizedStringType"/>
<xs:element name="Name" type="ns1:InternationalStringType"/>
<xs:element name="Notification" type="ns1:NotificationType"/>
<xs:element name="NotifyAction" type="ns1:NotifyActionType"/>
<xs:element name="ObjectRef" type="ns1:ObjectRefType"/>
<xs:element name="ObjectRefList" type="ns1:ObjectRefListType"/>
<xs:element name="Organization" type="ns1:OrganizationType"/>
<xs:element name="Person" type="ns1:PersonType"/>
<xs:element name="PersonName" type="ns1:PersonNameType"/>
<xs:element name="PostalAddress" type="ns1:PostalAddressType"/>
<xs:element name="QueryExpression" type="ns1:QueryExpressionType"/>
<xs:element name="Registry" type="ns1:RegistryType"/>
<xs:element name="RegistryObject" type="ns1:RegistryObjectType"/>
<xs:element name="RegistryObjectList"
type="ns1:RegistryObjectListType"/>
<xs:element name="RegistryPackage" type="ns1:RegistryPackageType"/>
<xs:element name="Service" type="ns1:ServiceType"/>
<xs:element name="ServiceBinding" type="ns1:ServiceBindingType"/>
<xs:element name="Slot" type="ns1:SlotType1"/>
<xs:element name="SlotList" type="ns1:SlotListType"/>
<xs:element name="SpecificationLink" type="ns1:SpecificationLinkType"/>
```



```

<xs:element name="Subscription" type="ns1:SubscriptionType"/>
<xs:element name="TelephoneNumber" type="ns1:TelephoneNumberType"/>
<xs:element name="UsageDescription" type="ns1:InternationalStringType"/>
<xs:element name="UsageParameter" type="xs:string"/>
<xs:element name="User" type="ns1:UserType"/>
<xs:element name="Value" type="xs:string"/>
<xs:element name="ValueList" type="ns1:ValueListType"/>
</xs:schema>

```

### 3.3.3 IEventMgtImpl.xsd\_2.xsd

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.w3.org/XML/1998/namespace">
    <xs:attribute name="lang" type="xs:string"/>
</xs:schema>

```

### 3.3.4 IEventMgtImpl.xsd\_3.xsd

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IEventMgt/"
xmlns:ns1="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IEventMgt/">
    <xs:import namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
schemaLocation="IEventMgtImpl.xsd_1.xsd"/>
    <xs:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IEventMgtImpl.xsd_2.xsd"/>
    <xs:element name="RegistryError" type="tns:RegistryError"/>

```

```

    <xs:element name="RegistryErrorList" type="tns:RegistryErrorList"/>

    <xs:element name="RemoveObjectsRequest"
type="tns:RemoveObjectsRequest"/>

    <xs:element name="SubmitObjectsRequest"
type="tns:SubmitObjectsRequest"/>

    <xs:element name="notifyEvent" type="tns:notifyEvent"/>

    <xs:element name="notifyEventResponse"
type="tns:notifyEventResponse"/>

    <xs:element name="subscribeEvent" type="tns:subscribeEvent"/>

    <xs:element name="subscribeEventResponse"
type="tns:subscribeEventResponse"/>

    <xs:element name="unsubscribeEvent" type="tns:unsubscribeEvent"/>

    <xs:element name="unsubscribeEventResponse"
type="tns:unsubscribeEventResponse"/>

    <xs:complexType name="unsubscribeEvent">
        <xs:sequence>
            <xs:element name="arg0" type="tns:RemoveObjectsRequest"
minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="RemoveObjectsRequest">
        <xs:complexContent>
            <xs:extension base="tns:RegistryRequestType">
                <xs:sequence>
                    <xs:element ref="ns1:AdhocQuery" minOccurs="0"/>
                    <xs:element ref="ns1:ObjectRefList" minOccurs="0"/>
                </xs:sequence>
                <xs:attribute name="deletionScope" type="xs:string"/>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="RegistryRequestType">
        <xs:sequence>
            <xs:element name="RequestSlotList" type="tns:SlotListType"
minOccurs="0"/>
        </xs:sequence>
        <xs:attribute name="id" type="xs:anyURI"/>
        <xs:attribute name="comment" type="xs:string"/>
    </xs:complexType>

```

```

        <xs:complexType name="AdhocQueryType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
        <xs:element name="QueryExpression"
type="tns:QueryExpressionType" minOccurs="0"/>
        </xs:sequence>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="RegistryObjectType">
        <xs:complexContent>
        <xs:extension base="tns:IdentifiableType">
        <xs:sequence>
        <xs:element name="Name" type="tns:InternationalStringType"
minOccurs="0"/>
        <xs:element name="Description"
type="tns:InternationalStringType" minOccurs="0"/>
        <xs:element name="VersionInfo" type="tns:VersionInfoType"
minOccurs="0"/>
        <xs:element name="Classification"
type="tns:ClassificationType" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="ExternalIdentifier"
type="tns:ExternalIdentifierType" minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
        <xs:attribute name="lid" type="xs:anyURI"/>
        <xs:attribute name="objectType" type="xs:string"/>
        <xs:attribute name="status" type="xs:string"/>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="IdentifiableType">
        <xs:sequence>
        <xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded"/>
        </xs:sequence>
        <xs:attribute name="id" type="xs:anyURI" use="required"/>
        <xs:attribute name="home" type="xs:anyURI"/>
        </xs:complexType>

        <xs:complexType name="QueryExpressionType" mixed="true">
        <xs:sequence>
        <xs:any processContents="lax" namespace="##other"
minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
        <xs:attribute name="queryLanguage" type="xs:string"
use="required"/>
        </xs:complexType>

```

```

        <xs:complexType name="NotificationType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
        <xs:element name="RegistryObjectList"
type="tns:RegistryObjectListType"/>
        </xs:sequence>
        <xs:attribute name="subscription" type="xs:string"
use="required"/>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="RegistryObjectListType">
        <xs:sequence>
        <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element ref="ns1:Identifiable"/>
        <xs:element ref="ns1:Registry"/>
        <xs:element ref="ns1:User"/>
        <xs:element ref="ns1:RegistryPackage"/>
        <xs:element ref="ns1:SpecificationLink"/>
        <xs:element ref="ns1:RegistryObject"/>
        <xs:element ref="ns1:AdhocQuery"/>
        <xs:element ref="ns1:AuditableEvent"/>
        <xs:element ref="ns1:ExternalIdentifier"/>
        <xs:element ref="ns1:Person"/>
        <xs:element ref="ns1:Association"/>
        <xs:element ref="ns1:Federation"/>
        <xs:element ref="ns1:ServiceBinding"/>
        <xs:element ref="ns1:ExternalLink"/>
        <xs:element ref="ns1:Subscription"/>
        <xs:element ref="ns1:ObjectRef"/>
        <xs:element ref="ns1:ClassificationScheme"/>
        <xs:element ref="ns1:Service"/>
        <xs:element ref="ns1:ClassificationNode"/>
        <xs:element ref="ns1:ExtrinsicObject"/>
        <xs:element ref="ns1:Organization"/>
        <xs:element ref="ns1:Classification"/>
        </xs:choice>
        </xs:sequence>
        </xs:complexType>

        <xs:complexType name="InternationalStringType">
        <xs:sequence>
        <xs:element name="LocalizedString"
type="tns:LocalizedStringType" minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
        </xs:complexType>

        <xs:complexType name="LocalizedStringType">

```

```

</xs:sequence>
<xs:attribute ref="xml:lang"/>
<xs:attribute name="charset" type="xs:anySimpleType"/>
<xs:attribute name="value" type="xs:string" use="required"/>
</xs:complexType>

<xs:complexType name="VersionInfoType">
<xs:sequence/>
<xs:attribute name="versionName" type="xs:string"/>
<xs:attribute name="comment" type="xs:string"/>
</xs:complexType>

<xs:complexType name="ClassificationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="classificationScheme" type="xs:string"/>
<xs:attribute name="classifiedObject" type="xs:string"
use="required"/>
<xs:attribute name="classificationNode" type="xs:string"/>
<xs:attribute name="nodeRepresentation" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ExternalIdentifierType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="registryObject" type="xs:string"
use="required"/>
<xs:attribute name="identificationScheme" type="xs:string"
use="required"/>
<xs:attribute name="value" type="xs:string" use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="SlotType1">
<xs:sequence>
<xs:element name="ValueList" type="tns:ValueListType"/>
</xs:sequence>
<xs:attribute name="name" type="xs:string" use="required"/>
<xs:attribute name="slotType" type="xs:string"/>
</xs:complexType>

<xs:complexType name="ValueListType">
<xs:sequence>
<xs:element name="Value" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>

```

```

</xs:complexType>

<xs:complexType name="ObjectRefType">
  <xs:complexContent>
    <xs:extension base="tns:IdentifiableType">
      <xs:sequence/>
      <xs:attribute name="createReplica" type="xs:boolean"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="ClassificationSchemeType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="ClassificationNode"
type="tns:ClassificationNodeType" minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="isInternal" type="xs:boolean"
use="required"/>
      <xs:attribute name="nodeType" type="xs:string"
use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="ClassificationNodeType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="ClassificationNode"
type="tns:ClassificationNodeType" minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="parent" type="xs:string"/>
      <xs:attribute name="code" type="xs:string"/>
      <xs:attribute name="path" type="xs:string"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="ServiceType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="ServiceBinding"
type="tns:ServiceBindingType" minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

```

        <xs:complexType name="ServiceBindingType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
        <xs:element name="SpecificationLink"
type="tns:SpecificationLinkType" minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
        <xs:attribute name="service" type="xs:string"
use="required"/>
        <xs:attribute name="accessURI" type="xs:anyURI"/>
        <xs:attribute name="targetBinding" type="xs:string"/>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="SpecificationLinkType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
        <xs:element name="UsageDescription"
type="tns:InternationalStringType" minOccurs="0"/>
        <xs:element name="UsageParameter" type="xs:string"
minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
        <xs:attribute name="serviceBinding" type="xs:string"
use="required"/>
        <xs:attribute name="specificationObject" type="xs:string"
use="required"/>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="AssociationType1">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence/>
        <xs:attribute name="associationType" type="xs:string"
use="required"/>
        <xs:attribute name="sourceObject" type="xs:string"
use="required"/>
        <xs:attribute name="targetObject" type="xs:string"
use="required"/>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="ExtrinsicObjectType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>

```

```

        <xs:element name="ContentVersionInfo"
type="tns:VersionInfoType" minOccurs="0"/>
    </xs:sequence>
    <xs:attribute name="mimeType" type="xs:string"/>
    <xs:attribute name="isOpaque" type="xs:boolean"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="OrganizationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="Address" type="tns:PostalAddressType"
minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
<xs:attribute name="parent" type="xs:string"/>
<xs:attribute name="primaryContact" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="PostalAddressType">
<xs:sequence/>
<xs:attribute name="city" type="xs:string"/>
<xs:attribute name="country" type="xs:string"/>
<xs:attribute name="postalCode" type="xs:string"/>
<xs:attribute name="stateOrProvince" type="xs:string"/>
<xs:attribute name="street" type="xs:string"/>
<xs:attribute name="streetNumber" type="xs:string"/>
</xs:complexType>

<xs:complexType name="TelephoneNumberType">
<xs:sequence/>
<xs:attribute name="areaCode" type="xs:string"/>
<xs:attribute name="countryCode" type="xs:string"/>
<xs:attribute name="extension" type="xs:string"/>
<xs:attribute name="number" type="xs:string"/>
<xs:attribute name="phoneType" type="xs:string"/>
</xs:complexType>

<xs:complexType name="EmailAddressType">
<xs:sequence/>
<xs:attribute name="address" type="xs:string"
use="required"/>
<xs:attribute name="type" type="xs:string"/>
</xs:complexType>

```



```

        <xs:complexType name="RegistryType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence/>
        <xs:attribute name="operator" type="xs:string"
use="required"/>
        <xs:attribute name="specificationVersion" type="xs:string"
use="required"/>
        <xs:attribute name="replicationSyncLatency"
type="xs:duration"/>
        <xs:attribute name="catalogingLatency" type="xs:duration"/>
        <xs:attribute name="conformanceProfile" type="xs:string"/>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="FederationType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence/>
        <xs:attribute name="replicationSyncLatency"
type="xs:duration"/>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="RegistryPackageType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
        <xs:element name="RegistryObjectList"
type="tns:RegistryObjectListType" minOccurs="0"/>
        </xs:sequence>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="ExternalLinkType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence/>
        <xs:attribute name="externalURI" type="xs:anyURI"
use="required"/>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="AuditableEventType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">

```

```

        <xs:sequence>
        <xs:element name="affectedObjects"
type="tns:ObjectRefListType"/>
        </xs:sequence>
        <xs:attribute name="eventType" type="xs:string"
use="required"/>
        <xs:attribute name="timestamp" type="xs:dateTime"
use="required"/>
        <xs:attribute name="user" type="xs:string" use="required"/>
        <xs:attribute name="requestId" type="xs:string"
use="required"/>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="ObjectRefListType">
        <xs:sequence>
        <xs:element name="ObjectRef" type="tns:ObjectRefType"
minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
        </xs:complexType>

        <xs:complexType name="SubscriptionType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
        <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element ref="ns1:Action"/>
        <xs:element ref="ns1:NotifyAction"/>
        </xs:choice>
        </xs:sequence>
        <xs:attribute name="selector" type="xs:string"
use="required"/>
        <xs:attribute name="startTime" type="xs:dateTime"/>
        <xs:attribute name="endTime" type="xs:dateTime"/>
        <xs:attribute name="notificationInterval"
type="xs:duration"/>
        </xs:extension>
        </xs:complexContent>
        </xs:complexType>

        <xs:complexType name="PersonType">
        <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
        <xs:element name="Address" type="tns:PostalAddressType"
minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="PersonName" type="tns:PersonNameType"
minOccurs="0"/>
        <xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded"/>

```

```

        <xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
    </xs:extension>
</xs:complexContent>
</xs:complexType>

    <xs:complexType name="PersonNameType">
    <xs:sequence/>
    <xs:attribute name="firstName" type="xs:string"/>
    <xs:attribute name="middleName" type="xs:string"/>
    <xs:attribute name="lastName" type="xs:string"/>
    </xs:complexType>

    <xs:complexType name="UserType">
    <xs:complexContent>
    <xs:extension base="tns:PersonType">
    <xs:sequence/>
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="SlotListType">
    <xs:sequence>
    <xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
    </xs:complexType>

    <xs:complexType name="TelephoneNumberListType">
    <xs:sequence>
    <xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
    </xs:complexType>

    <xs:complexType name="NotifyActionType">
    <xs:complexContent>
    <xs:extension base="tns:ActionType">
    <xs:sequence/>
    <xs:attribute name="notificationOption" type="xs:string"/>
    <xs:attribute name="endPoint" type="xs:anyURI"
use="required"/>
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="ActionType" abstract="true">
    <xs:sequence/>
    </xs:complexType>

```

```

        <xs:complexType name="unsubscribeEventResponse">
        <xs:sequence>
        <xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0"/>
        </xs:sequence>
        </xs:complexType>

        <xs:complexType name="RegistryResponseType">
        <xs:sequence>
        <xs:element name="ResponseSlotList" type="tns:SlotListType"
minOccurs="0"/>
        <xs:element name="RegistryErrorList"
type="tns:RegistryErrorList" minOccurs="0"/>
        </xs:sequence>
        <xs:attribute name="status" type="xs:string"
use="required"/>
        <xs:attribute name="requestId" type="xs:anyURI"/>
        </xs:complexType>

        <xs:complexType name="RegistryErrorList">
        <xs:sequence>
        <xs:element name="RegistryError" type="tns:RegistryError"
maxOccurs="unbounded"/>
        </xs:sequence>
        <xs:attribute name="highestSeverity" type="xs:string"/>
        </xs:complexType>

        <xs:complexType name="RegistryError">
        <xs:simpleContent>
        <xs:extension base="xs:string">
        <xs:attribute name="codeContext" type="xs:string"
use="required"/>
        <xs:attribute name="errorCode" type="xs:string"
use="required"/>
        <xs:attribute name="severity" type="xs:string"/>
        <xs:attribute name="location" type="xs:string"/>
        </xs:extension>
        </xs:simpleContent>
        </xs:complexType>

        <xs:complexType name="subscribeEvent">
        <xs:sequence>
        <xs:element name="arg0" type="tns:SubmitObjectsRequest"
minOccurs="0"/>
        </xs:sequence>
        </xs:complexType>

        <xs:complexType name="SubmitObjectsRequest">
        <xs:complexContent>
        <xs:extension base="tns:RegistryRequestType">
        <xs:sequence>

```

```

        <xs:element ref="ns1:RegistryObjectList"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="subscribeEventResponse">
    <xs:sequence>
        <xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="notifyEvent">
    <xs:sequence>
        <xs:element name="arg0" type="tns:NotificationType"
minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="notifyEventResponse">
    <xs:sequence/>
</xs:complexType>
</xs:schema>

```

## 3.4 Interfaccia IRegistryFederationMgt

L'interfaccia *IRegistryFederationMgt* offre funzionalità per gestire la federazione di registri.

In Figura 9 è riportata una rappresentazione UML dell'interfaccia.

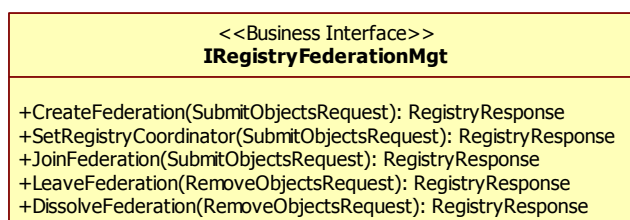


Figura 9. Interfaccia IRegistryFederationMgt

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IRegistryFederationMgt*, con i relativi schemi XSD.

### 3.4.1 IRegistryFederationMgtImpl.wsdl

```
<?xml version="1.0" encoding="UTF-8"?>
<definitions xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IRegistryFederationMgt/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="http://schemas.xmlsoap.org/wsdl/"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IRegistryFederationMgt/"
name="IRegistryFederationMgtImpl">
  <types>
    <xsd:schema>
      <xsd:import namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
schemaLocation="IRegistryFederationMgtImpl.xsd1.xsd"/>
    </xsd:schema>
  </types>
  <portType name="IRegistryFederationMgtImpl" binding="soap:binding" type="tns:IRegistryFederationMgtImpl">
    <operation name="CreateFederation" input="tns:SubmitObjectsRequest" output="tns:RegistryResponse" style="rpc" />
    <operation name="SetRegistryCoordinator" input="tns:SubmitObjectsRequest" output="tns:RegistryResponse" style="rpc" />
    <operation name="JoinFederation" input="tns:SubmitObjectsRequest" output="tns:RegistryResponse" style="rpc" />
    <operation name="LeaveFederation" input="tns:RemoveObjectsRequest" output="tns:RegistryResponse" style="rpc" />
    <operation name="DissolveFederation" input="tns:RemoveObjectsRequest" output="tns:RegistryResponse" style="rpc" />
  </portType>
  <binding name="IRegistryFederationMgtImpl" type="tns:IRegistryFederationMgtImpl" style="soap" />
  <service name="IRegistryFederationMgtImpl" binding="IRegistryFederationMgtImpl" />
</definitions>
```

```

        </xsd:schema>
        <xsd:schema>
            <xsd:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IRegistryFederationMgtImpl.xsd2.xsd"/>
        </xsd:schema>
        <xsd:schema>
            <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IRegistryFeder
ationMgt/" schemaLocation="IRegistryFederationMgtImpl.xsd3.xsd"/>
        </xsd:schema>
    </types>
    <message name="createFederation">
        <part name="parameters" element="tns:createFederation"/>
    </message>
    <message name="createFederationResponse">
        <part name="parameters" element="tns:createFederationResponse"/>
    </message>
    <message name="joinFederation">
        <part name="parameters" element="tns:joinFederation"/>
    </message>
    <message name="joinFederationResponse">
        <part name="parameters" element="tns:joinFederationResponse"/>
    </message>
    <message name="leaveFederation">
        <part name="parameters" element="tns:leaveFederation"/>
    </message>
    <message name="leaveFederationResponse">
        <part name="parameters" element="tns:leaveFederationResponse"/>
    </message>
    <message name="dissolveFederation">
        <part name="parameters" element="tns:dissolveFederation"/>
    </message>
    <message name="dissolveFederationResponse">
        <part name="parameters"
element="tns:dissolveFederationResponse"/>
    </message>
    <message name="setRegistryCoordinator">
    <part name="parameters" element="tns:setRegistryCoordinator"/>
    </message>
    <message name="setRegistryCoordinatorResponse">
    <part name="parameters" element="tns:setRegistryCoordinatorResponse"/>
    </message>
    <portType name="IRegistryFederationMgtImpl">
    <operation name="createFederation">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IRegistryFeder

```

```

ationMgt/IRegistryFederationMgtImpl/createFederationRequest"
message="tns:createFederation"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IRegistryFeder
ationMgt/IRegistryFederationMgtImpl/createFederationResponse"
message="tns:createFederationResponse"/>
</operation>
<operation name="joinFederation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IRegistryFeder
ationMgt/IRegistryFederationMgtImpl/joinFederationRequest"
message="tns:joinFederation"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IRegistryFeder
ationMgt/IRegistryFederationMgtImpl/joinFederationResponse"
message="tns:joinFederationResponse"/>
</operation>
<operation name="leaveFederation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IRegistryFeder
ationMgt/IRegistryFederationMgtImpl/leaveFederationRequest"
message="tns:leaveFederation"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IRegistryFeder
ationMgt/IRegistryFederationMgtImpl/leaveFederationResponse"
message="tns:leaveFederationResponse"/>
</operation>
<operation name="dissolveFederation">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IRegistryFeder
ationMgt/IRegistryFederationMgtImpl/dissolveFederationRequest"
message="tns:dissolveFederation"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IRegistryFeder
ationMgt/IRegistryFederationMgtImpl/dissolveFederationResponse"
message="tns:dissolveFederationResponse"/>
</operation>

```



```

<operation name="setRegistryCoordinator">
<input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IRegistryFeder
ationMgt/IRegistryFederationMgtImpl/setRegistryCoordinatorRequest"
message="tns:setRegistryCoordinator"/>
<output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IRegistryFeder
ationMgt/IRegistryFederationMgtImpl/setRegistryCoordinatorResponse"
message="tns:setRegistryCoordinatorResponse"/>
</operation>
</portType>
<binding name="IRegistryFederationMgtImplPortBinding"
type="tns:IRegistryFederationMgtImpl">
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
<operation name="createFederation">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="joinFederation">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="leaveFederation">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="dissolveFederation">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>

```

```

<output>
<soap:body use="literal"/>
</output>
</operation>
<operation name="setRegistryCoordinator">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
</binding>
<service name="IRegistryFederationMgtImpl">
<port name="IRegistryFederationMgtImplPort"
binding="tns:IRegistryFederationMgtImplPortBinding">
<soap:address location="REPLACE_WITH_ACTUAL_URL"/>
</port>
</service>
</definitions>

```

### 3.4.2 IRegistryFederationMgtImpl.xsd1.xsd

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:ns1="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IRegistryFederationMgt/"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0">

  <xs:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IRegistryFederationMgt/"
schemaLocation="IRegistryFederationMgtImpl.xsd3.xsd"/>

  <xs:element name="Action" type="ns1:ActionType"/>

  <xs:element name="Address" type="ns1:PostalAddressType"/>

  <xs:element name="AdhocQuery" type="ns1:AdhocQueryType"/>

  <xs:element name="Association" type="ns1:AssociationType1"/>

  <xs:element name="AuditableEvent" type="ns1:AuditableEventType"/>

```

```

    <xs:element name="Classification" type="ns1:ClassificationType"/>
    <xs:element name="ClassificationNode"
type="ns1:ClassificationNodeType"/>
    <xs:element name="ClassificationScheme"
type="ns1:ClassificationSchemeType"/>
    <xs:element name="Description" type="ns1:InternationalStringType"/>
    <xs:element name="EmailAddress" type="ns1:EmailAddressType"/>
    <xs:element name="ExternalIdentifier"
type="ns1:ExternalIdentifierType"/>
    <xs:element name="ExternalLink" type="ns1:ExternalLinkType"/>
    <xs:element name="ExtrinsicObject" type="ns1:ExtrinsicObjectType"/>
    <xs:element name="Federation" type="ns1:FederationType"/>
    <xs:element name="Identifiable" type="ns1:IdentifiableType"/>
    <xs:element name="InternationalString"
type="ns1:InternationalStringType"/>
<xs:element name="LocalizedString" type="ns1:LocalizedStringType"/>
<xs:element name="Name" type="ns1:InternationalStringType"/>
<xs:element name="Notification" type="ns1:NotificationType"/>
<xs:element name="NotifyAction" type="ns1:NotifyActionType"/>
<xs:element name="ObjectRef" type="ns1:ObjectRefType"/>
<xs:element name="ObjectRefList" type="ns1:ObjectRefListType"/>
<xs:element name="Organization" type="ns1:OrganizationType"/>
<xs:element name="Person" type="ns1:PersonType"/>
<xs:element name="PersonName" type="ns1:PersonNameType"/>
<xs:element name="PostalAddress" type="ns1:PostalAddressType"/>
<xs:element name="QueryExpression" type="ns1:QueryExpressionType"/>
<xs:element name="Registry" type="ns1:RegistryType"/>
<xs:element name="RegistryObject" type="ns1:RegistryObjectType"/>

```

```

<xs:element name="RegistryObjectList"
type="ns1:RegistryObjectListType"/>
<xs:element name="RegistryPackage" type="ns1:RegistryPackageType"/>
<xs:element name="Service" type="ns1:ServiceType"/>
<xs:element name="ServiceBinding" type="ns1:ServiceBindingType"/>
<xs:element name="Slot" type="ns1:SlotType1"/>
<xs:element name="SlotList" type="ns1:SlotListType"/>
<xs:element name="SpecificationLink" type="ns1:SpecificationLinkType"/>
<xs:element name="Subscription" type="ns1:SubscriptionType"/>
<xs:element name="TelephoneNumber" type="ns1:TelephoneNumberType"/>
<xs:element name="UsageDescription" type="ns1:InternationalStringType"/>
<xs:element name="UsageParameter" type="xs:string"/>
<xs:element name="User" type="ns1:UserType"/>
<xs:element name="Value" type="xs:string"/>
<xs:element name="ValueList" type="ns1:ValueListType"/>
</xs:schema>

```

### 3.4.3 IRegistryFederationMgtImpl.xsd2.xsd

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.w3.org/XML/1998/namespace">
<xs:attribute name="lang" type="xs:string"/>
</xs:schema>

```

### 3.4.4 IRegistryFederationMgtImpl.xsd3.xsd

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-

```

```
innovazione tecnologica/attivita/tse/InFSE/repository/wsd1/IRegistryFederationMgt/" xmlns:ns1="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
xmlns:xs="http://www.w3.org/2001/XMLSchema" version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd1/IRegistryFederationMgt/">
```

```
<xs:import namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
schemaLocation="IRegistryFederationMgtImpl.xsd1.xsd"/>
```

```
<xs:import namespace="http://www.w3.org/XML/1998/namespace"
schemaLocation="IRegistryFederationMgtImpl.xsd2.xsd"/>
```

```
<xs:element name="RegistryError" type="tns:RegistryError"/>
```

```
<xs:element name="RegistryErrorList" type="tns:RegistryErrorList"/>
```

```
<xs:element name="RemoveObjectsRequest"
type="tns:RemoveObjectsRequest"/>
```

```
<xs:element name="SubmitObjectsRequest"
type="tns:SubmitObjectsRequest"/>
```

```
<xs:element name="createFederation" type="tns:createFederation"/>
```

```
<xs:element name="createFederationResponse"
type="tns:createFederationResponse"/>
```

```
<xs:element name="dissolveFederation"
type="tns:dissolveFederation"/>
```

```
<xs:element name="dissolveFederationResponse"
type="tns:dissolveFederationResponse"/>
```

```
<xs:element name="joinFederation" type="tns:joinFederation"/>
```

```
<xs:element name="joinFederationResponse"
type="tns:joinFederationResponse"/>
```

```
<xs:element name="leaveFederation" type="tns:leaveFederation"/>
```

```
<xs:element name="leaveFederationResponse"
type="tns:leaveFederationResponse"/>
```

```
<xs:element name="setRegistryCoordinator"
type="tns:setRegistryCoordinator"/>
```

```
<xs:element name="setRegistryCoordinatorResponse"
type="tns:setRegistryCoordinatorResponse"/>
```

```

    <xs:complexType name="leaveFederation">
      <xs:sequence>
        <xs:element name="arg0" type="tns:LeaveFederationType"
minOccurs="0"/>
      </xs:sequence>
    </xs:complexType>

    <xs:complexType name="LeaveFederationType">
      <xs:complexContent>
        <xs:extension base="tns:RegistryRequestType">
          <xs:sequence>
            <xs:element name="adhocQuery" type="tns:AdhocQueryType"
minOccurs="0"/>
            <xs:element name="objectRefList" type="tns:ObjectRefListType"
minOccurs="0"/>
            <xs:element name="deletionScope" type="xs:string"
minOccurs="0"/>
            <xs:element name="federationType" type="tns:FederationType"
minOccurs="0"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="RegistryRequestType">
      <xs:sequence>
        <xs:element name="RequestSlotList" type="tns:SlotListType"
minOccurs="0"/>
      </xs:sequence>
      <xs:attribute name="id" type="xs:anyURI"/>
      <xs:attribute name="comment" type="xs:string"/>
    </xs:complexType>

    <xs:complexType name="AdhocQueryType">
      <xs:complexContent>
        <xs:extension base="tns:RegistryObjectType">
          <xs:sequence>
            <xs:element name="QueryExpression"
type="tns:QueryExpressionType" minOccurs="0"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="RegistryObjectType">
      <xs:complexContent>
        <xs:extension base="tns:IdentifiableType">
          <xs:sequence>
            <xs:element name="Name" type="tns:InternationalStringType"
minOccurs="0"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>

```

```

        <xs:element name="Description"
type="tns:InternationalStringType" minOccurs="0"/>
        <xs:element name="VersionInfo" type="tns:VersionInfoType"
minOccurs="0"/>
        <xs:element name="Classification" type="tns:ClassificationType"
minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="ExternalIdentifier"
type="tns:ExternalIdentifierType" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="lid" type="xs:anyURI"/>
    <xs:attribute name="objectType" type="xs:string"/>
    <xs:attribute name="status" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="IdentifiableType">
<xs:sequence>
<xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
<xs:attribute name="id" type="xs:anyURI" use="required"/>
<xs:attribute name="home" type="xs:anyURI"/>
</xs:complexType>

<xs:complexType name="QueryExpressionType" mixed="true">
<xs:sequence>
<xs:any processContents="lax" namespace="##other" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
<xs:attribute name="queryLanguage" type="xs:string"
use="required"/>
</xs:complexType>

<xs:complexType name="NotificationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="RegistryObjectList"
type="tns:RegistryObjectListType"/>
</xs:sequence>
<xs:attribute name="subscription" type="xs:string"
use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="RegistryObjectListType">
<xs:sequence>
<xs:choice minOccurs="0" maxOccurs="unbounded">
<xs:element ref="ns1:Identifiable"/>

```

```

<xs:element ref="ns1:Registry"/>
<xs:element ref="ns1:User"/>
<xs:element ref="ns1:RegistryPackage"/>
<xs:element ref="ns1:SpecificationLink"/>
<xs:element ref="ns1:RegistryObject"/>
<xs:element ref="ns1:AdhocQuery"/>
<xs:element ref="ns1:AuditableEvent"/>
<xs:element ref="ns1:ExternalIdentifier"/>
<xs:element ref="ns1:Person"/>
<xs:element ref="ns1:Association"/>
<xs:element ref="ns1:Federation"/>
<xs:element ref="ns1:ServiceBinding"/>
<xs:element ref="ns1:ExternalLink"/>
<xs:element ref="ns1:Subscription"/>
<xs:element ref="ns1:ObjectRef"/>
<xs:element ref="ns1:ClassificationScheme"/>
<xs:element ref="ns1:Service"/>
<xs:element ref="ns1:ClassificationNode"/>
<xs:element ref="ns1:ExtrinsicObject"/>
<xs:element ref="ns1:Organization"/>
<xs:element ref="ns1:Classification"/>
</xs:choice>
</xs:sequence>
</xs:complexType>

<xs:complexType name="InternationalStringType">
<xs:sequence>
<xs:element name="LocalizedString"
type="tns:LocalizedStringType" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="LocalizedStringType">
<xs:sequence/>
<xs:attribute ref="xml:lang"/>
<xs:attribute name="charset" type="xs:anySimpleType"/>
<xs:attribute name="value" type="xs:string" use="required"/>
</xs:complexType>

<xs:complexType name="VersionInfoType">
<xs:sequence/>
<xs:attribute name="versionName" type="xs:string"/>
<xs:attribute name="comment" type="xs:string"/>
</xs:complexType>

<xs:complexType name="ClassificationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="classificationScheme" type="xs:string"/>

```



```

        <xs:attribute name="classifiedObject" type="xs:string"
use="required"/>
        <xs:attribute name="classificationNode" type="xs:string"/>
        <xs:attribute name="nodeRepresentation" type="xs:string"/>
    </xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ExternalIdentifierType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="registryObject" type="xs:string"
use="required"/>
<xs:attribute name="identificationScheme" type="xs:string"
use="required"/>
<xs:attribute name="value" type="xs:string" use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="SlotType1">
<xs:sequence>
<xs:element name="ValueList" type="tns:ValueListType"/>
</xs:sequence>
<xs:attribute name="name" type="xs:string" use="required"/>
<xs:attribute name="slotType" type="xs:string"/>
</xs:complexType>

<xs:complexType name="ValueListType">
<xs:sequence>
<xs:element name="Value" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="ObjectRefType">
<xs:complexContent>
<xs:extension base="tns:IdentifiableType">
<xs:sequence/>
<xs:attribute name="createReplica" type="xs:boolean"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ClassificationSchemeType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="ClassificationNode"
type="tns:ClassificationNodeType" minOccurs="0" maxOccurs="unbounded"/>

```

```

        </xs:sequence>
        <xs:attribute name="isInternal" type="xs:boolean"
use="required"/>
        <xs:attribute name="nodeType" type="xs:string" use="required"/>
    </xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ClassificationNodeType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="ClassificationNode"
type="tns:ClassificationNodeType" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
<xs:attribute name="parent" type="xs:string"/>
<xs:attribute name="code" type="xs:string"/>
<xs:attribute name="path" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ServiceType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="ServiceBinding" type="tns:ServiceBindingType"
minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ServiceBindingType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="SpecificationLink"
type="tns:SpecificationLinkType" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
<xs:attribute name="service" type="xs:string" use="required"/>
<xs:attribute name="accessURI" type="xs:anyURI"/>
<xs:attribute name="targetBinding" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="SpecificationLinkType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>

```

```

        <xs:element name="UsageDescription"
type="tns:InternationalStringType" minOccurs="0"/>
        <xs:element name="UsageParameter" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="serviceBinding" type="xs:string"
use="required"/>
    <xs:attribute name="specificationObject" type="xs:string"
use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="AssociationType1">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="associationType" type="xs:string"
use="required"/>
<xs:attribute name="sourceObject" type="xs:string"
use="required"/>
<xs:attribute name="targetObject" type="xs:string"
use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="ExtrinsicObjectType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="ContentVersionInfo" type="tns:VersionInfoType"
minOccurs="0"/>
</xs:sequence>
<xs:attribute name="mimeType" type="xs:string"/>
<xs:attribute name="isOpaque" type="xs:boolean"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="OrganizationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence>
<xs:element name="Address" type="tns:PostalAddressType"
minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>

```

```

<xs:attribute name="parent" type="xs:string"/>
<xs:attribute name="primaryContact" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="PostalAddressType">
<xs:sequence/>
<xs:attribute name="city" type="xs:string"/>
<xs:attribute name="country" type="xs:string"/>
<xs:attribute name="postalCode" type="xs:string"/>
<xs:attribute name="stateOrProvince" type="xs:string"/>
<xs:attribute name="street" type="xs:string"/>
<xs:attribute name="streetNumber" type="xs:string"/>
</xs:complexType>

<xs:complexType name="TelephoneNumberType">
<xs:sequence/>
<xs:attribute name="areaCode" type="xs:string"/>
<xs:attribute name="countryCode" type="xs:string"/>
<xs:attribute name="extension" type="xs:string"/>
<xs:attribute name="number" type="xs:string"/>
<xs:attribute name="phoneType" type="xs:string"/>
</xs:complexType>

<xs:complexType name="EmailAddressType">
<xs:sequence/>
<xs:attribute name="address" type="xs:string" use="required"/>
<xs:attribute name="type" type="xs:string"/>
</xs:complexType>

<xs:complexType name="RegistryType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="operator" type="xs:string" use="required"/>
<xs:attribute name="specificationVersion" type="xs:string"
use="required"/>
<xs:attribute name="replicationSyncLatency" type="xs:duration"/>
<xs:attribute name="catalogingLatency" type="xs:duration"/>
<xs:attribute name="conformanceProfile" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="FederationType">
<xs:complexContent>
<xs:extension base="tns:RegistryObjectType">
<xs:sequence/>
<xs:attribute name="replicationSyncLatency" type="xs:duration"/>
</xs:extension>

```

```

    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="RegistryPackageType">
    <xs:complexContent>
      <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
          <xs:element name="RegistryObjectList"
type="tns:RegistryObjectListType" minOccurs="0"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="ExternalLinkType">
    <xs:complexContent>
      <xs:extension base="tns:RegistryObjectType">
        <xs:sequence/>
        <xs:attribute name="externalURI" type="xs:anyURI"
use="required"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="AuditableEventType">
    <xs:complexContent>
      <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>
          <xs:element name="affectedObjects"
type="tns:ObjectRefListType"/>
        </xs:sequence>
        <xs:attribute name="eventType" type="xs:string" use="required"/>
        <xs:attribute name="timestamp" type="xs:dateTime"
use="required"/>
        <xs:attribute name="user" type="xs:string" use="required"/>
        <xs:attribute name="requestId" type="xs:string" use="required"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="ObjectRefListType">
    <xs:sequence>
      <xs:element name="ObjectRef" type="tns:ObjectRefType"
minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="SubscriptionType">
    <xs:complexContent>
      <xs:extension base="tns:RegistryObjectType">
        <xs:sequence>

```

```

<xs:choice minOccurs="0" maxOccurs="unbounded">
  <xs:element ref="ns1:Action"/>
  <xs:element ref="ns1:NotifyAction"/>
</xs:choice>
</xs:sequence>
<xs:attribute name="selector" type="xs:string" use="required"/>
<xs:attribute name="startTime" type="xs:dateTime"/>
<xs:attribute name="endTime" type="xs:dateTime"/>
<xs:attribute name="notificationInterval" type="xs:duration"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="PersonType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryObjectType">
      <xs:sequence>
        <xs:element name="Address" type="tns:PostalAddressType"
minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="PersonName" type="tns:PersonNameType"
minOccurs="0"/>
        <xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded"/>
        <xs:element name="EmailAddress" type="tns:EmailAddressType"
minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="PersonNameType">
  <xs:sequence/>
  <xs:attribute name="firstName" type="xs:string"/>
  <xs:attribute name="middleName" type="xs:string"/>
  <xs:attribute name="lastName" type="xs:string"/>
</xs:complexType>

<xs:complexType name="UserType">
  <xs:complexContent>
    <xs:extension base="tns:PersonType">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="SlotListType">
  <xs:sequence>
    <xs:element name="Slot" type="tns:SlotType1" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

```

```

    <xs:complexType name="TelephoneNumberListType">
    <xs:sequence>
    <xs:element name="TelephoneNumber"
type="tns:TelephoneNumberType" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
    </xs:complexType>

    <xs:complexType name="NotifyActionType">
    <xs:complexContent>
    <xs:extension base="tns:ActionType">
    <xs:sequence/>
    <xs:attribute name="notificationOption" type="xs:string"/>
    <xs:attribute name="endPoint" type="xs:anyURI" use="required"/>
    </xs:extension>
    </xs:complexContent>
    </xs:complexType>

    <xs:complexType name="ActionType" abstract="true">
    <xs:sequence/>
    </xs:complexType>

    <xs:complexType name="leaveFederationResponse">
    <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0"/>
    </xs:sequence>
    </xs:complexType>

    <xs:complexType name="RegistryResponseType">
    <xs:sequence>
    <xs:element name="ResponseSlotList" type="tns:SlotListType"
minOccurs="0"/>
    <xs:element name="RegistryErrorList"
type="tns:RegistryErrorList" minOccurs="0"/>
    </xs:sequence>
    <xs:attribute name="status" type="xs:string" use="required"/>
    <xs:attribute name="requestId" type="xs:anyURI"/>
    </xs:complexType>

    <xs:complexType name="RegistryErrorList">
    <xs:sequence>
    <xs:element name="RegistryError" type="tns:RegistryError"
maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="highestSeverity" type="xs:string"/>
    </xs:complexType>

    <xs:complexType name="RegistryError">
    <xs:simpleContent>
    <xs:extension base="xs:string">

```

```

        <xs:attribute name="codeContext" type="xs:string"
use="required"/>
        <xs:attribute name="errorCode" type="xs:string" use="required"/>
        <xs:attribute name="severity" type="xs:string"/>
        <xs:attribute name="location" type="xs:string"/>
    </xs:extension>
</xs:simpleContent>
</xs:complexType>

<xs:complexType name="dissolveFederation">
<xs:sequence>
<xs:element name="arg0" type="tns:RemoveObjectsRequest"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="RemoveObjectsRequest">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element ref="ns1:AdhocQuery" minOccurs="0"/>
<xs:element ref="ns1:ObjectRefList" minOccurs="0"/>
</xs:sequence>
<xs:attribute name="deletionScope" type="xs:string"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="dissolveFederationResponse">
<xs:sequence>
<xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="setRegistryCoordinator">
<xs:sequence>
<xs:element name="arg0" type="tns:SetRegistryCoordinatorType"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="SetRegistryCoordinatorType">
<xs:complexContent>
<xs:extension base="tns:RegistryRequestType">
<xs:sequence>
<xs:element name="registryObjectList"
type="tns:RegistryObjectListType" minOccurs="0"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>

```



```

</xs:complexType>

<xs:complexType name="setRegistryCoordinatorResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="joinFederation">
  <xs:sequence>
    <xs:element name="arg0" type="tns:JoinFederationType"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="JoinFederationType">
  <xs:complexContent>
    <xs:extension base="tns:RegistryRequestType">
      <xs:sequence>
        <xs:element name="registryObjectList"
type="tns:RegistryObjectListType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="joinFederationResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="createFederation">
  <xs:sequence>
    <xs:element name="arg0" type="tns:SubmitObjectsRequest"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SubmitObjectsRequest">
  <xs:complexContent>
    <xs:extension base="tns:RegistryRequestType">
      <xs:sequence>
        <xs:element ref="ns1:RegistryObjectList"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

```
<xs:complexType name="createFederationResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:RegistryResponseType"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
</xs:schema>
```

## 4 Gestore Gerarchico degli Eventi

In questa sezione sono presentate le interfacce WSDL della componente *Gestore Gerarchico degli Eventi*, ossia:

- *IPublisherRegistrationMgt*;
- *ISubscriptionMgt*;
- *INotificationBrokerMgt*;
- *IBrokerFederationMgt*.

### 4.1 Interfaccia IPublisherRegistrationMgt

L'interfaccia *IPublisherRegistrationMgt* offre funzionalità per la gestione delle registrazioni da parte dei publisher.

In Figura 10 è riportata una rappresentazione UML dell'interfaccia.

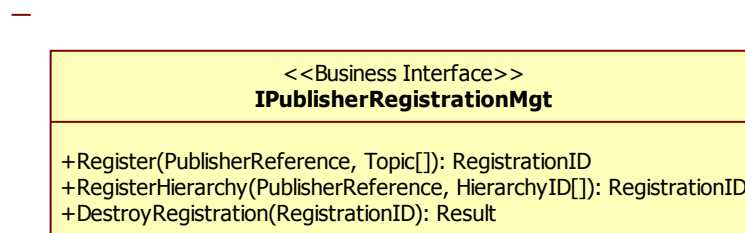


Figura 10. Interfaccia IPublisherRegistrationMgt

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IPublisherRegistrationMgt*, con i relativi schemi XSD.

#### 4.1.1 IPublisherRegistrationMgtImpl.wsdl

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IPublisherRegi
strationMgt/" name="IPublisherRegistrationMgtImpl"
xmlns="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
```

```

e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IPublisherRegi
strationMgt/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:soap="http://schemas.xmlsoap.org/wsdI/soap/"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-utility-1.0.xsd">
  <types>
    <xsd:schema>
      <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IPublisherRegi
strationMgt/"
schemaLocation="IPublisherRegistrationMgtImpl_schema1.xsd"/>
      </xsd:schema>
    </types>
    <message name="register">
      <part name="parameters" element="tns:register"/>
    </message>
    <message name="registerResponse">
      <part name="parameters" element="tns:registerResponse"/>
    </message>
    <message name="destroyRegistration">
      <part name="parameters" element="tns:destroyRegistration"/>
    </message>
    <message name="destroyRegistrationResponse">
      <part name="parameters" element="tns:destroyRegistrationResponse"/>
    </message>
    <message name="registerHierarchy">
      <part name="parameters" element="tns:registerHierarchy"/>
    </message>
    <message name="registerHierarchyResponse">
      <part name="parameters" element="tns:registerHierarchyResponse"/>
    </message>
    <portType name="IPublisherRegistrationMgtImpl">
      <operation name="register">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IPublisherRegi
strationMgt/IPublisherRegistrationMgtImpl/registerRequest"
message="tns:register"/>
          <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdI/IPublisherRegi
strationMgt/IPublisherRegistrationMgtImpl/registerResponse"
message="tns:registerResponse"/>
        </operation>

```

```

        <operation name="destroyRegistration">
            <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IPublisherRegi
strationMgt/IPublisherRegistrationMgtImpl/destroyRegistrationRequest"
message="tns:destroyRegistration"/>
            <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IPublisherRegi
strationMgt/IPublisherRegistrationMgtImpl/destroyRegistrationResponse"
message="tns:destroyRegistrationResponse"/>
            </operation>
        <operation name="registerHierarchy">
            <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IPublisherRegi
strationMgt/IPublisherRegistrationMgtImpl/registerHierarchyRequest"
message="tns:registerHierarchy"/>
            <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/IPublisherRegi
strationMgt/IPublisherRegistrationMgtImpl/registerHierarchyResponse"
message="tns:registerHierarchyResponse"/>
            </operation>
        </portType>
        <binding name="IPublisherRegistrationMgtImplPortBinding"
type="tns:IPublisherRegistrationMgtImpl">
            <soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
            <operation name="register">
                <soap:operation soapAction=""/>
                <input>
                    <soap:body use="literal"/>
                </input>
                <output>
                    <soap:body use="literal"/>
                </output>
            </operation>
            <operation name="destroyRegistration">
                <soap:operation soapAction=""/>
                <input>
                    <soap:body use="literal"/>
                </input>
                <output>
                    <soap:body use="literal"/>
                </output>
            </operation>

```

```

    <operation name="registerHierarchy">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
  </binding>
  <service name="IPublisherRegistrationMgtImpl">
    <port name="IPublisherRegistrationMgtImplPort"
binding="tns:IPublisherRegistrationMgtImplPortBinding">
      <soap:address location="REPLACE_WITH_ACTUAL_URL"/>
    </port>
  </service>
</definitions>

```

#### 4.1.2 IPublisherRegistrationMgtImpl\_schema1.xsd

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ IPublisherRegi
strationMgt/"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ IPublisherRegi
strationMgt/" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:element name="destroyRegistration"
type="tns:destroyRegistration"/>

  <xs:element name="destroyRegistrationResponse"
type="tns:destroyRegistrationResponse"/>

  <xs:element name="register" type="tns:register"/>

  <xs:element name="registerHierarchy" type="tns:registerHierarchy"/>

  <xs:element name="registerHierarchyResponse"
type="tns:registerHierarchyResponse"/>

  <xs:element name="registerResponse" type="tns:registerResponse"/>

  <xs:complexType name="register">
    <xs:sequence>

```

```

        <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
        <xs:element name="arg1" type="tns:topicExpressionType"
minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="endpointReferenceType">
    <xs:sequence>
        <xs:element name="address" type="tns:attributedURIType"
minOccurs="0"/>
        <xs:element name="metadata" type="tns:metadataType"
minOccurs="0"/>
        <xs:element name="referenceParameters"
type="tns:referenceParametersType" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="attributedURIType">
    <xs:sequence>
        <xs:element name="value" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="metadataType">
    <xs:sequence/>
</xs:complexType>

<xs:complexType name="referenceParametersType">
    <xs:sequence/>
</xs:complexType>

<xs:complexType name="topicExpressionType" mixed="true">
    <xs:complexContent>
        <xs:restriction base="xs:anyType">
            <xs:sequence>
                <xs:any processContents='lax' minOccurs="0" maxOccurs="1"/>
            </xs:sequence>
            <xs:attribute name="Dialect" use="required" type="xs:anyURI" />
            <xs:anyAttribute/>
        </xs:restriction>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="registerResponse">
    <xs:sequence>
        <xs:element name="return" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="destroyRegistration">

```

```

    <xs:sequence>
      <xs:element name="arg0" type="xs:string" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="destroyRegistrationResponse">
    <xs:sequence>
      <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="registerHierarchy">
    <xs:sequence>
      <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
      <xs:element name="arg1" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="registerHierarchyResponse">
    <xs:sequence>
      <xs:element name="return" type="xs:string" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>

```



## 4.2 Interfaccia ISubscriptionMgt

L'interfaccia *ISubscriptionMgt* gestisce le sottoscrizioni effettuate dai consumer. In Figura 11 è riportata una rappresentazione UML dell'interfaccia.

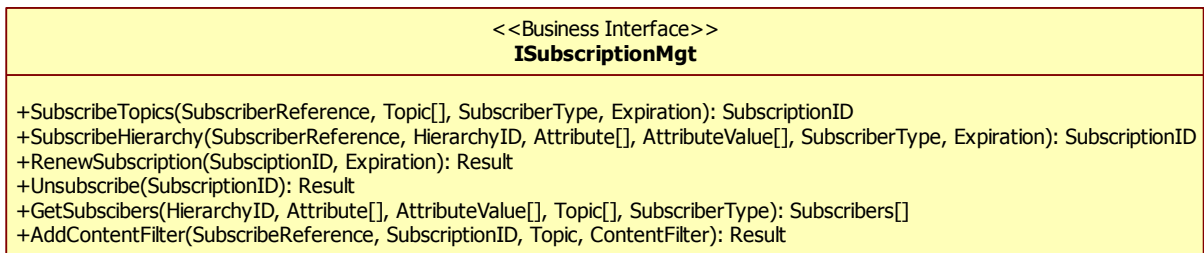


Figura 11. Interfaccia ISubscriptionMgt

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *ISubscriptionMgt*, con i relativi schemi XSD.

### 4.2.1 ISubscriptionMgtImpl.wsdl

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/ISubscriptionM
gt/" name="ISubscriptionMgtImpl"
xmlns="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/ISubscriptionM
gt/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-utility-1.0.xsd">
  <types>
    <xsd:schema>
      <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
```

```

e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionM
gt/" schemaLocation="ISubscriptionMgtImpl_schema1.xsd"/>
  </xsd:schema>
</types>
<message name="unsubscribe">
  <part name="parameters" element="tns:unsubscribe"/>
</message>
<message name="unsubscribeResponse">
  <part name="parameters" element="tns:unsubscribeResponse"/>
</message>
<message name="getSubscribers">
  <part name="parameters" element="tns:getSubscribers"/>
</message>
<message name="getSubscribersResponse">
  <part name="parameters" element="tns:getSubscribersResponse"/>
</message>
<message name="subscribeHierarchy">
  <part name="parameters" element="tns:subscribeHierarchy"/>
</message>
<message name="subscribeHierarchyResponse">
  <part name="parameters" element="tns:subscribeHierarchyResponse"/>
</message>
<message name="subscribeTopics">
  <part name="parameters" element="tns:subscribeTopics"/>
</message>
<message name="subscribeTopicsResponse">
  <part name="parameters" element="tns:subscribeTopicsResponse"/>
</message>
<message name="renewSubscription">
  <part name="parameters" element="tns:renewSubscription"/>
</message>
<message name="renewSubscriptionResponse">
  <part name="parameters" element="tns:renewSubscriptionResponse"/>
</message>
<message name="addContentFilter">
  <part name="parameters" element="tns:addContentFilter"/>
</message>
<message name="addContentFilterResponse">
  <part name="parameters" element="tns:addContentFilterResponse"/>
</message>
<portType name="ISubscriptionMgtImpl">
  <operation name="unsubscribe">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionM
gt/ISubscriptionMgtImpl/unsubscribeRequest" message="tns:unsubscribe"/>
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-

```

```

innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionMgt/ISubscriptionMgtImpl/unsubscribeResponse"
message="tns:unsubscribeResponse"/>
  </operation>
  <operation name="getSubscribers">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionMgt/ISubscriptionMgtImpl/getSubscribersRequest"
message="tns:getSubscribers"/>
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionMgt/ISubscriptionMgtImpl/getSubscribersResponse"
message="tns:getSubscribersResponse"/>
  </operation>
  <operation name="subscribeHierarchy">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionMgt/ISubscriptionMgtImpl/subscribeHierarchyRequest"
message="tns:subscribeHierarchy"/>
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionMgt/ISubscriptionMgtImpl/subscribeHierarchyResponse"
message="tns:subscribeHierarchyResponse"/>
  </operation>
  <operation name="subscribeTopics">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionMgt/ISubscriptionMgtImpl/subscribeTopicsRequest"
message="tns:subscribeTopics"/>
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionMgt/ISubscriptionMgtImpl/subscribeTopicsResponse"
message="tns:subscribeTopicsResponse"/>
  </operation>
  <operation name="renewSubscription">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionM

```

```

gt/ISubscriptionMgtImpl/renewSubscriptionRequest"
message="tns:renewSubscription"/>
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionM
gt/ISubscriptionMgtImpl/renewSubscriptionResponse"
message="tns:renewSubscriptionResponse"/>
  </operation>
  <operation name="addContentFilter">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionM
gt/ISubscriptionMgtImpl/addContentFilterRequest"
message="tns:addContentFilter"/>
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/ISubscriptionM
gt/ISubscriptionMgtImpl/addContentFilterResponse"
message="tns:addContentFilterResponse"/>
    </operation>
  </portType>
  <binding name="ISubscriptionMgtImplPortBinding"
type="tns:ISubscriptionMgtImpl">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
    <operation name="unsubscribe">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
    <operation name="getSubscribers">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
    <operation name="subscribeHierarchy">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>
      </input>

```

```

        <output>
            <soap:body use="literal"/>
        </output>
    </operation>
    <operation name="subscribeTopics">
        <soap:operation soapAction=""/>
        <input>
            <soap:body use="literal"/>
        </input>
        <output>
            <soap:body use="literal"/>
        </output>
    </operation>
    <operation name="renewSubscription">
        <soap:operation soapAction=""/>
        <input>
            <soap:body use="literal"/>
        </input>
        <output>
            <soap:body use="literal"/>
        </output>
    </operation>
    <operation name="addContentFilter">
        <soap:operation soapAction=""/>
        <input>
            <soap:body use="literal"/>
        </input>
        <output>
            <soap:body use="literal"/>
        </output>
    </operation>
</binding>
<service name="ISubscriptionMgtImpl">
    <port name="ISubscriptionMgtImplPort"
binding="tns:ISubscriptionMgtImplPortBinding">
        <soap:address location="REPLACE_WITH_ACTUAL_URL"/>
    </port>
</service>
</definitions>

```

## 4.2.2 ISubscriptionMgtImpl\_schema1.xsd

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InfSE/repository/wsd/ISubscriptionM
gt/"

```

```

xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/ISubscriptionM
gt/" xmlns:xs="http://www.w3.org/2001/XMLSchema">

    <xs:element name="addContentFilter" type="tns:addContentFilter"/>

    <xs:element name="addContentFilterResponse"
type="tns:addContentFilterResponse"/>

    <xs:element name="getSubscribers" type="tns:getSubscribers"/>

    <xs:element name="getSubscribersResponse"
type="tns:getSubscribersResponse"/>

    <xs:element name="renewSubscription" type="tns:renewSubscription"/>

    <xs:element name="renewSubscriptionResponse"
type="tns:renewSubscriptionResponse"/>

    <xs:element name="subscribeHierarchy"
type="tns:subscribeHierarchy"/>

    <xs:element name="subscribeHierarchyResponse"
type="tns:subscribeHierarchyResponse"/>

    <xs:element name="subscribeTopics" type="tns:subscribeTopics"/>

    <xs:element name="subscribeTopicsResponse"
type="tns:subscribeTopicsResponse"/>

    <xs:element name="unsubscribe" type="tns:unsubscribe"/>

    <xs:element name="unsubscribeResponse"
type="tns:unsubscribeResponse"/>

    <xs:complexType name="renewSubscription">
        <xs:sequence>
            <xs:element name="arg0" type="xs:string" minOccurs="0"/>
            <xs:element name="arg1" type="xs:dateTime" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="renewSubscriptionResponse">
        <xs:sequence>
            <xs:element name="return" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="addContentFilter">
        <xs:sequence>

```

```

        <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
        <xs:element name="arg1" type="xs:string" minOccurs="0"/>
        <xs:element name="arg2" type="tns:topicExpressionType"
minOccurs="0"/>
        <xs:element name="arg3" type="tns:contentFilter" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="addContentFilterResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="subscribeHierarchy">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
<xs:element name="arg1" type="xs:string" minOccurs="0"/>
<xs:element name="arg2" type="tns:attribute" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="arg3" type="tns:attributeValue" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="arg4" type="tns:subscriberType"
minOccurs="0"/>
<xs:element name="arg5" type="xs:dateTime" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="endpointReferenceType">
<xs:sequence>
<xs:element name="address" type="tns:attributedURIType"
minOccurs="0"/>
<xs:element name="metadata" type="tns:metadataType"
minOccurs="0"/>
<xs:element name="referenceParameters"
type="tns:referenceParametersType" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="contentFilter">
<xs:sequence>
<xs:element name="fieldName" type="xs:string" minOccurs="0"/>
<xs:element name="fieldValue" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="attributedURIType">
<xs:sequence>
<xs:element name="value" type="xs:string" minOccurs="0"/>

```

```

</xs:sequence>
</xs:complexType>

<xs:complexType name="metadataType">
<xs:sequence/>
</xs:complexType>

<xs:complexType name="referenceParametersType">
<xs:sequence/>
</xs:complexType>

<xs:complexType name="attribute">
<xs:sequence>
<xs:element name="attribute" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="attributeValue">
<xs:sequence>
<xs:element name="value" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="subscribeHierarchyResponse">
<xs:sequence>
<xs:element name="return" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="unsubscribe">
<xs:sequence>
<xs:element name="arg0" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="unsubscribeResponse">
<xs:sequence>
<xs:element name="return" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="subscribeTopics">
<xs:sequence>
<xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
<xs:element name="arg1" type="tns:topicExpressionType"
minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="arg2" type="tns:subscriberType"
minOccurs="0"/>
<xs:element name="arg3" type="xs:dateTime" minOccurs="0"/>
</xs:sequence>

```



```

</xs:complexType>

<xs:complexType name="topicExpressionType" mixed="true">
<xs:complexContent>
<xs:restriction base="xs:anyType">
<xs:sequence>
<xs:any processContents='lax' minOccurs="0" maxOccurs="1"/>
</xs:sequence>
<xs:attribute name="Dialect" use="required" type="xs:anyURI" />
<xs:anyAttribute/>
</xs:restriction>
</xs:complexContent>
</xs:complexType>

<xs:complexType name="subscribeTopicsResponse">
<xs:sequence>
<xs:element name="return" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="getSubscribers">
<xs:sequence>
<xs:element name="arg0" type="xs:string" minOccurs="0"/>
<xs:element name="arg1" type="tns:attribute" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="arg2" type="tns:attributeValue" minOccurs="0"
maxOccurs="unbounded"/>
<xs:element name="arg3" type="tns:topicExpressionType"
minOccurs="0" maxOccurs="unbounded"/>
<xs:element name="arg4" type="tns:subscriberType"
minOccurs="0"/>
</xs:sequence>
</xs:complexType>

<xs:complexType name="getSubscribersResponse">
<xs:sequence>
<xs:element name="return" type="tns:endpointReferenceType"
minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

<xs:simpleType name="subscriberType">
<xs:restriction base="xs:string">
<xs:enumeration value="PUSH"/>
<xs:enumeration value="PULL"/>
</xs:restriction>
</xs:simpleType>
</xs:schema>

```

### 4.3 Interfaccia INotificationBrokerMgt

L'interfaccia *INotificationBrokerMgt* supporta i meccanismi per la notifica e la gestione delle strutture dati, topic e gerarchie.

In Figura 12 è riportata una rappresentazione UML dell'interfaccia.

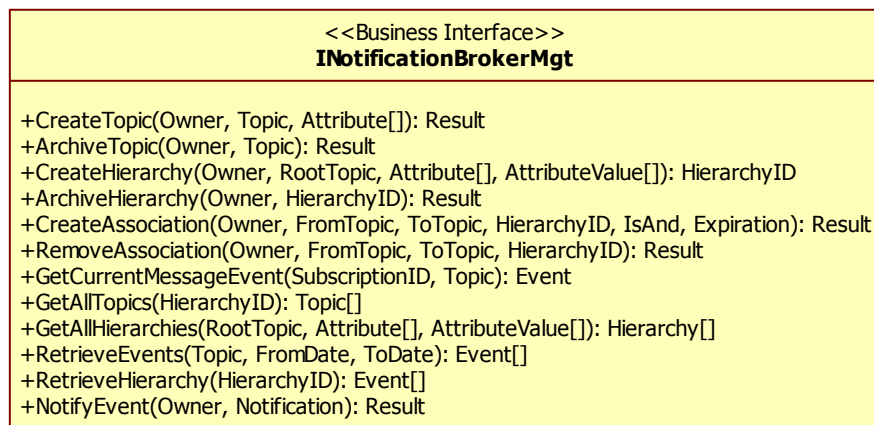


Figura 12. Interfaccia INotificationBrokerMgt

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *INotificationBrokerMgt*, con i relativi schemi XSD.

#### 4.3.1 INotificationBrokerMgtImpl.wsdl

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz-
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/" name="INotificationBrokerMgtImpl"
xmlns="http://schemas.xmlsoap.org/wsd/"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:soap="http://schemas.xmlsoap.org/wsd/soap/"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata">
```

```

xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-utility-1.0.xsd">
  <types>
    <xsd:schema>
      <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd1/INotificationB
rokerMgt/" schemaLocation="INotificationBrokerMgtImpl_schema1.xsd"/>
    </xsd:schema>
  </types>
  <message name="archiveTopic">
    <part name="parameters" element="tns:archiveTopic"/>
  </message>
  <message name="archiveTopicResponse">
    <part name="parameters" element="tns:archiveTopicResponse" />
  </message>
  <message name="notifyEvent">
    <part name="parameters" element="tns:notifyEvent"/>
  </message>
  <message name="notifyEventResponse">
    <part name="parameters" element="tns:notifyEventResponse" />
  </message>
  <message name="createTopic">
    <part name="parameters" element="tns:createTopic"/>
  </message>
  <message name="createTopicResponse">
    <part name="parameters" element="tns:createTopicResponse" />
  </message>
  <message name="getAllTopics">
    <part name="parameters" element="tns:getAllTopics"/>
  </message>
  <message name="getAllTopicsResponse">
    <part name="parameters" element="tns:getAllTopicsResponse"/>
  </message>
  <message name="getAllHierarchies">
    <part name="parameters" element="tns:getAllHierarchies"/>
  </message>
  <message name="getAllHierarchiesResponse">
    <part name="parameters" element="tns:getAllHierarchiesResponse"/>
  </message>
  <message name="retrieveEvents">
    <part name="parameters" element="tns:retrieveEvents"/>
  </message>
  <message name="retrieveEventsResponse">
    <part name="parameters" element="tns:retrieveEventsResponse"/>
  </message>
  <message name="getCurrentMessageEvent">
    <part name="parameters" element="tns:getCurrentMessageEvent"/>
  </message>
  <message name="getCurrentMessageEventResponse">

```

```

    <part name="parameters"
element="tns:getCurrentMessageEventResponse"/>
</message>
<message name="archiveHierarchy">
  <part name="parameters" element="tns:archiveHierarchy"/>
</message>
<message name="archiveHierarchyResponse">
  <part name="parameters" element="tns:archiveHierarchyResponse" />
</message>
<message name="removeAssociation">
  <part name="parameters" element="tns:removeAssociation"/>
</message>
<message name="removeAssociationResponse">
  <part name="parameters" element="tns:removeAssociationResponse" />
</message>
<message name="createAssociation">
  <part name="parameters" element="tns:createAssociation"/>
</message>
<message name="createAssociationResponse">
  <part name="parameters" element="tns:createAssociationResponse" />
</message>
<message name="retrieveHierarchy">
  <part name="parameters" element="tns:retrieveHierarchy"/>
</message>
<message name="retrieveHierarchyResponse">
  <part name="parameters" element="tns:retrieveHierarchyResponse"/>
</message>
<message name="createHierarchy">
  <part name="parameters" element="tns:createHierarchy"/>
</message>
<message name="createHierarchyResponse">
  <part name="parameters" element="tns:createHierarchyResponse"/>
</message>
<portType name="INotificationBrokerMgtImpl">
  <operation name="getAllTopics">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/getAllTopicsRequest"
message="tns:getAllTopics" />
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/getAllTopicsResponse"
message="tns:getAllTopicsResponse" />
    </operation>
  <operation name="notifyEvent">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi

```

```

one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/notifyEventRequest"
message="tns:notifyEvent" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/notifyEventResponse"
message="tns:notifyEventResponse" />
  </operation>
  <operation name="createTopic">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/createTopicRequest"
message="tns:createTopic" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/createTopicResponse"
message="tns:createTopicResponse" />
  </operation>
  <operation name="archiveTopic">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/archiveTopicRequest"
message="tns:archiveTopic" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/archiveTopicResponse"
message="tns:archiveTopicResponse" />
  </operation>
  <operation name="createHierarchy">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/createHierarchyRequest"
message="tns:createHierarchy" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd/INotificationB

```

```

rokerMgt/INotificationBrokerMgtImpl/createHierarchyResponse"
message="tns:createHierarchyResponse" />
  </operation>
  <operation name="getAllHierarchies">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/getAllHierarchiesRequest"
message="tns:getAllHierarchies" />
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/getAllHierarchiesResponse"
message="tns:getAllHierarchiesResponse" />
    </operation>
    <operation name="archiveHierarchy">
      <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/archiveHierarchyRequest"
message="tns:archiveHierarchy" />
      <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/archiveHierarchyResponse"
message="tns:archiveHierarchyResponse" />
      </operation>
      <operation name="createAssociation">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/createAssociationRequest"
message="tns:createAssociation" />
        <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/createAssociationResponse"
message="tns:createAssociationResponse" />
        </operation>
        <operation name="removeAssociation">
          <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB

```

```

rokerMgt/INotificationBrokerMgtImpl/removeAssociationRequest"
message="tns:removeAssociation" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/removeAssociationResponse"
message="tns:removeAssociationResponse" />
  </operation>
  <operation name="retrieveHierarchy">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/retrieveHierarchyRequest"
message="tns:retrieveHierarchy" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/retrieveHierarchyResponse"
message="tns:retrieveHierarchyResponse" />
  </operation>
  <operation name="retrieveEvents">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/retrieveEventsRequest"
message="tns:retrieveEvents" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/retrieveEventsResponse"
message="tns:retrieveEventsResponse" />
  </operation>
  <operation name="getCurrentMessageEvent">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/getCurrentMessageEventRequest"
message="tns:getCurrentMessageEvent" />
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/INotificationBrokerMgtImpl/getCurrentMessageEventResponse"
message="tns:getCurrentMessageEventResponse" />
  </operation>

```

```

</portType>
<binding name="INotificationBrokerMgtImplPortBinding"
type="tns:INotificationBrokerMgtImpl">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
  <operation name="archiveTopic">
    <soap:operation soapAction=""/>
    <input>
      <soap:body use="literal"/>
    </input>
    <output>
      <soap:body use="literal"/>
    </output>
  </operation>
  <operation name="notifyEvent">
    <soap:operation soapAction=""/>
    <input>
      <soap:body use="literal"/>
    </input>
    <output>
      <soap:body use="literal"/>
    </output>
  </operation>
  <operation name="createTopic">
    <soap:operation soapAction=""/>
    <input>
      <soap:body use="literal"/>
    </input>
    <output>
      <soap:body use="literal"/>
    </output>
  </operation>
  <operation name="getAllTopics">
    <soap:operation soapAction=""/>
    <input>
      <soap:body use="literal"/>
    </input>
    <output>
      <soap:body use="literal"/>
    </output>
  </operation>
  <operation name="getAllHierarchies">
    <soap:operation soapAction=""/>
    <input>
      <soap:body use="literal"/>
    </input>
    <output>
      <soap:body use="literal"/>
    </output>
  </operation>
  <operation name="retrieveEvents">

```



```

    <soap:operation soapAction=""/>
    <input>
      <soap:body use="literal"/>
    </input>
    <output>
      <soap:body use="literal"/>
    </output>
  </operation>
</operation name="getCurrentMessageEvent">
  <soap:operation soapAction=""/>
  <input>
    <soap:body use="literal"/>
  </input>
  <output>
    <soap:body use="literal"/>
  </output>
</operation>
<operation name="archiveHierarchy">
  <soap:operation soapAction=""/>
  <input>
    <soap:body use="literal"/>
  </input>
  <output>
    <soap:body use="literal"/>
  </output>
</operation>
<operation name="removeAssociation">
  <soap:operation soapAction=""/>
  <input>
    <soap:body use="literal"/>
  </input>
  <output>
    <soap:body use="literal"/>
  </output>
</operation>
<operation name="createAssociation">
  <soap:operation soapAction=""/>
  <input>
    <soap:body use="literal"/>
  </input>
  <output>
    <soap:body use="literal"/>
  </output>
</operation>
<operation name="retrieveHierarchy">
  <soap:operation soapAction=""/>
  <input>
    <soap:body use="literal"/>
  </input>
  <output>
    <soap:body use="literal"/>
  </output>

```

```

        </output>
    </operation>
    <operation name="createHierarchy">
        <soap:operation soapAction=""/>
        <input>
            <soap:body use="literal"/>
        </input>
        <output>
            <soap:body use="literal"/>
        </output>
    </operation>
</binding>
<service name="INotificationBrokerMgtImpl">
    <port name="INotificationBrokerMgtImplPort"
binding="tns:INotificationBrokerMgtImplPortBinding">
        <soap:address location="REPLACE_WITH_ACTUAL_URL"/>
    </port>
</service>
</definitions>

```

### 4.3.2 INotificationBrokerMgtImpl\_schema1.xsd

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/INotificationB
rokerMgt/" xmlns:xs="http://www.w3.org/2001/XMLSchema">

    <xs:element name="archiveHierarchy" type="tns:archiveHierarchy"/>

    <xs:element name="archiveHierarchyResponse"
type="tns:archiveHierarchyResponse"/>

    <xs:element name="archiveTopic" type="tns:archiveTopic"/>

    <xs:element name="archiveTopicResponse"
type="tns:archiveTopicResponse"/>

    <xs:element name="createAssociation" type="tns:createAssociation"/>

    <xs:element name="createAssociationResponse"
type="tns:createAssociationResponse"/>

```

```

<xs:element name="createHierarchy" type="tns:createHierarchy"/>

<xs:element name="createHierarchyResponse"
type="tns:createHierarchyResponse"/>

<xs:element name="createTopic" type="tns:createTopic"/>

<xs:element name="createTopicResponse"
type="tns:createTopicResponse"/>

<xs:element name="getAllHierarchies" type="tns:getAllHierarchies"/>

<xs:element name="getAllHierarchiesResponse"
type="tns:getAllHierarchiesResponse"/>

<xs:element name="getAllTopics" type="tns:getAllTopics"/>

<xs:element name="getAllTopicsResponse"
type="tns:getAllTopicsResponse"/>

<xs:element name="getCurrentMessageEvent"
type="tns:getCurrentMessageEvent"/>

<xs:element name="getCurrentMessageEventResponse"
type="tns:getCurrentMessageEventResponse"/>

<xs:element name="notifyEvent" type="tns:notifyEvent"/>

<xs:element name="notifyEventResponse"
type="tns:notifyEventResponse"/>

<xs:element name="removeAssociation" type="tns:removeAssociation"/>

<xs:element name="removeAssociationResponse"
type="tns:removeAssociationResponse"/>

<xs:element name="retrieveEvents" type="tns:retrieveEvents"/>

<xs:element name="retrieveEventsResponse"
type="tns:retrieveEventsResponse"/>

<xs:element name="retrieveHierarchy" type="tns:retrieveHierarchy"/>

<xs:element name="retrieveHierarchyResponse"
type="tns:retrieveHierarchyResponse"/>

<xs:complexType name="retrieveEvents">
  <xs:sequence>
    <xs:element name="arg0" type="tns:topicExpressionType"
minOccurs="0"/>
    <xs:element name="arg1" type="xs:dateTime" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

```

        <xs:element name="arg2" type="xs:dateTime" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="topicExpressionType" mixed="true">
    <xs:complexContent>
        <xs:restriction base="xs:anyType">
            <xs:sequence>
                <xs:any processContents='lax' minOccurs="0" maxOccurs="1"/>
            </xs:sequence>
            <xs:attribute name="Dialect" use="required" type="xs:anyURI" />
            <xs:anyAttribute/>
        </xs:restriction>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="retrieveEventsResponse">
    <xs:sequence>
        <xs:element name="return" type="tns:event" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="event">
    <xs:sequence>
        <xs:element name="creationDate" type="xs:dateTime" minOccurs="0"/>
        <xs:element name="eventID" type="xs:string" minOccurs="0"/>
        <xs:element name="msg" type="xs:string" minOccurs="0"/>
        <xs:element name="topicName" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="notifyEvent">
    <xs:sequence>
        <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
        <xs:element name="arg1" type="tns:event" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="notifyEventResponse">
    <xs:sequence>
        <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="endpointReferenceType">
    <xs:sequence>
        <xs:element name="address" type="tns:attributedURIType"
minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

```

```

        <xs:element name="metadata" type="tns:metadataType"
minOccurs="0"/>
        <xs:element name="referenceParameters"
type="tns:referenceParametersType" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="attributedURIType">
    <xs:sequence>
        <xs:element name="value" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="metadataType">
    <xs:sequence/>
</xs:complexType>

<xs:complexType name="referenceParametersType">
    <xs:sequence/>
</xs:complexType>

<xs:complexType name="getCurrentMessageEvent">
    <xs:sequence>
        <xs:element name="arg0" type="xs:string" minOccurs="0"/>
        <xs:element name="arg1" type="tns:topicExpressionType"
minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="getCurrentMessageEventResponse">
    <xs:sequence>
        <xs:element name="return" type="tns:event" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="getAllTopics">
    <xs:sequence>
        <xs:element name="arg0" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="getAllTopicsResponse">
    <xs:sequence>
        <xs:element name="return" type="tns:topicExpressionType"
minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="getAllHierarchies">
    <xs:sequence>

```

```

        <xs:element name="arg0" type="tns:topicExpressionType"
minOccurs="0"/>
        <xs:element name="arg1" type="tns:attribute" minOccurs="0"
maxOccurs="unbounded"/>
        <xs:element name="arg2" type="tns:attributeValue" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="attribute">
    <xs:sequence>
        <xs:element name="attribute" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="attributeValue">
    <xs:sequence>
        <xs:element name="value" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="getAllHierarchiesResponse">
    <xs:sequence>
        <xs:element name="return" type="tns:hierarchy" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="hierarchy">
    <xs:sequence>
        <xs:element name="creationDate" type="xs:dateTime" minOccurs="0"/>
        <xs:element name="hierarchyGraph" type="xs:string" minOccurs="0"/>
        <xs:element name="hierarchyID" type="xs:string" minOccurs="0"/>
        <xs:element name="owner" type="tns:endpointReferenceType"
minOccurs="0"/>
        <xs:element name="status" type="tns:status" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="createTopic">
    <xs:sequence>
        <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
        <xs:element name="arg1" type="tns:topicExpressionType"
minOccurs="0"/>
        <xs:element name="arg2" type="tns:attribute" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="createTopicResponse">

```

```

    <xs:sequence>
      <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="archiveHierarchy">
    <xs:sequence>
      <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
      <xs:element name="arg1" type="xs:string" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="archiveHierarchyResponse">
    <xs:sequence>
      <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="archiveTopic">
    <xs:sequence>
      <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
      <xs:element name="arg1" type="tns:topicExpressionType"
minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="archiveTopicResponse">
    <xs:sequence>
      <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="removeAssociation">
    <xs:sequence>
      <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
      <xs:element name="arg1" type="tns:topicExpressionType"
minOccurs="0"/>
      <xs:element name="arg2" type="tns:topicExpressionType"
minOccurs="0"/>
      <xs:element name="arg3" type="xs:string" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="removeAssociationResponse">
    <xs:sequence>
      <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>

```

```

<xs:complexType name="retrieveHierarchy">
  <xs:sequence>
    <xs:element name="arg0" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="retrieveHierarchyResponse">
  <xs:sequence>
    <xs:element name="return" type="tns:event" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="createAssociation">
  <xs:sequence>
    <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
    <xs:element name="arg1" type="tns:topicExpressionType"
minOccurs="0"/>
    <xs:element name="arg2" type="tns:topicExpressionType"
minOccurs="0"/>
    <xs:element name="arg3" type="xs:string" minOccurs="0"/>
    <xs:element name="arg4" type="xs:boolean"/>
    <xs:element name="arg5" type="xs:int"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="createAssociationResponse">
  <xs:sequence>
    <xs:element name="return" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="createHierarchy">
  <xs:sequence>
    <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
    <xs:element name="arg1" type="tns:topicExpressionType"
minOccurs="0"/>
    <xs:element name="arg2" type="tns:attribute" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="arg3" type="tns:attributeValue" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="createHierarchyResponse">
  <xs:sequence>
    <xs:element name="return" type="xs:string" minOccurs="0"/>
  </xs:sequence>

```



```
</xs:complexType>

<xs:simpleType name="status">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ACTIVE"/>
    <xs:enumeration value="ARCHIEVED"/>
  </xs:restriction>
</xs:simpleType>
</xs:schema>
```

## 4.4 Interfaccia IBrokerFederationMgt

*IBrokerFederationMgt* è l'interfaccia per la gestione delle federazioni di nodi broker. In Figura 13 è riportata una rappresentazione UML dell'interfaccia.

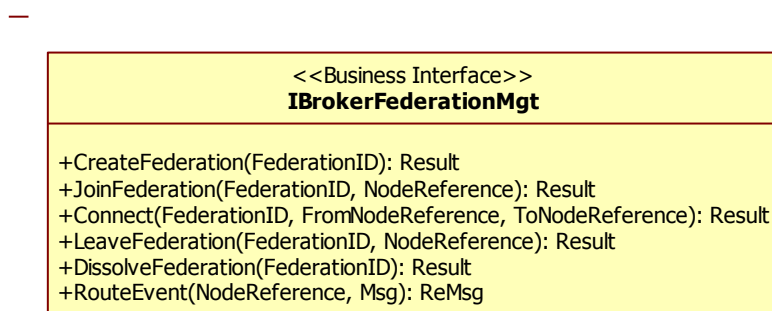


Figura 13. Interfaccia IBrokerFederationMgt

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IBrokerFederationMgt*, con i relativi schemi XSD.

### 4.4.1 IBrokerFederationMgtImpl.wsdl

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz-
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat-
ionMgt/" name="IBrokerFederationMgtImpl"
xmlns="http://schemas.xmlsoap.org/wsd/"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion-
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat-
ionMgt/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:soap="http://schemas.xmlsoap.org/wsd/soap/"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-utility-1.0.xsd">
  <types>
    <xsd:schema>
```

```

        <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederationMgt/"
schemaLocation="IBrokerFederationMgtImpl_schema1.xsd"/>
    </xsd:schema>
</types>
<message name="connect">
    <part name="parameters" element="tns:connect"/>
</message>
<message name="connectResponse">
    <part name="parameters" element="tns:connectResponse"/>
</message>
<message name="routeEvent">
    <part name="parameters" element="tns:routeEvent"/>
</message>
<message name="routeEventResponse">
    <part name="parameters" element="tns:routeEventResponse"/>
</message>
<message name="createFederation">
    <part name="parameters" element="tns:createFederation"/>
</message>
<message name="createFederationResponse">
    <part name="parameters" element="tns:createFederationResponse"/>
</message>
<message name="leaveFederation">
    <part name="parameters" element="tns:leaveFederation"/>
</message>
<message name="leaveFederationResponse">
    <part name="parameters" element="tns:leaveFederationResponse"/>
</message>
<message name="dissolveFederation">
    <part name="parameters" element="tns:dissolveFederation"/>
</message>
<message name="dissolveFederationResponse">
    <part name="parameters" element="tns:dissolveFederationResponse"/>
</message>
<message name="joinFederation">
    <part name="parameters" element="tns:joinFederation"/>
</message>
<message name="joinFederationResponse">
    <part name="parameters" element="tns:joinFederationResponse"/>
</message>
<portType name="IBrokerFederationMgtImpl">
    <operation name="connect">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederationMgt/IBrokerFederationImpl/connect"
message="tns:connect"/>

```

```

        <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/connectResponse"
message="tns:connectResponse"/>
        </operation>
        <operation name="routeEvent">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/routeEventRequest" message="tns:routeEvent"/>
        <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/routeEventResponse"
message="tns:routeEventResponse"/>
        </operation>
        <operation name="createFederation">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/createFederation"
message="tns:createFederation"/>
        <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/createFederationResponse"
message="tns:createFederationResponse"/>
        </operation>
        <operation name="leaveFederation">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/leaveFederation"
message="tns:leaveFederation"/>
        <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederat
ion/IBrokerFederationImpl/leaveFederationResponse"
message="tns:leaveFederationResponse"/>
        </operation>
        <operation name="dissolveFederation">
        <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi

```

```

one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederation/IBrokerFederationImpl/dissolveFederation"
message="tns:dissolveFederation"/>
  <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederation/IBrokerFederationImpl/dissolveFederationResponse"
message="tns:dissolveFederationResponse"/>
  </operation>
  <operation name="joinFederation">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederation/IBrokerFederationImpl/joinFederation" message="tns:joinFederation"/>
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IBrokerFederation/IBrokerFederationImpl/joinFederationResponse"
message="tns:joinFederationResponse"/>
    </operation>
  </portType>
  <binding name="IBrokerFederationMgtImplPortBinding"
type="tns:IBrokerFederationMgtImpl">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
    <operation name="connect">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
    <operation name="routeEvent">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
    <operation name="joinFederation">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>

```

```

        </input>
        <output>
            <soap:body use="literal"/>
        </output>
    </operation>
    <operation name="dissolveFederation">
        <soap:operation soapAction=""/>
        <input>
            <soap:body use="literal"/>
        </input>
        <output>
            <soap:body use="literal"/>
        </output>
    </operation>
    <operation name="createFederation">
        <soap:operation soapAction=""/>
        <input>
            <soap:body use="literal"/>
        </input>
        <output>
            <soap:body use="literal"/>
        </output>
    </operation>
    <operation name="leaveFederation">
        <soap:operation soapAction=""/>
        <input>
            <soap:body use="literal"/>
        </input>
        <output>
            <soap:body use="literal"/>
        </output>
    </operation>
</binding>
<service name="IBrokerFederationMgtImpl">
    <port name="IBrokerFederationMgtImplPort"
binding="tns:IBrokerFederationMgtImplPortBinding">
        <soap:address location="REPLACE_WITH_ACTUAL_URL"/>
    </port>
</service>
</definitions>

```

#### 4.4.2 IBrokerFederationMgtImpl\_schema1.xsd

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InfSE/repository/wsd/IBrokerFederat

```

```

ionMgt/"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazione-
e-
innovazione tecnologica/attivita/tse/InFSE/repository/wsd1/IBrokerFederationMgt/" xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:element name="connect" type="tns:connect"/>

  <xs:element name="connectResponse" type="tns:connectResponse"/>

  <xs:element name="createFederation" type="tns:createFederation"/>

  <xs:element name="createFederationResponse"
type="tns:createFederationResponse"/>

  <xs:element name="dissolveFederation" type="tns:dissolveFederation"/>

  <xs:element name="dissolveFederationResponse"
type="tns:dissolveFederationResponse"/>

  <xs:element name="joinFederation" type="tns:joinFederation"/>

  <xs:element name="joinFederationResponse"
type="tns:joinFederationResponse"/>

  <xs:element name="leaveFederation" type="tns:leaveFederation"/>

  <xs:element name="leaveFederationResponse"
type="tns:leaveFederationResponse"/>

  <xs:element name="routeEvent" type="tns:routeEvent"/>

  <xs:element name="routeEventResponse" type="tns:routeEventResponse"/>

  <xs:complexType name="joinFederation">
    <xs:sequence>
      <xs:element name="arg0" type="xs:string" minOccurs="0"/>
      <xs:element name="arg1" type="tns:endpointReferenceType"
minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="joinFederationResponse">
    <xs:sequence>
      <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="endpointReferenceType">
    <xs:sequence>

```

```

        <xs:element name="address" type="tns:attributedURIType"
minOccurs="0"/>
        <xs:element name="metadata" type="tns:metadataType"
minOccurs="0"/>
        <xs:element name="referenceParameters"
type="tns:referenceParametersType" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="attributedURIType">
    <xs:sequence>
        <xs:element name="value" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="metadataType">
    <xs:sequence/>
</xs:complexType>

<xs:complexType name="referenceParametersType">
    <xs:sequence/>
</xs:complexType>

<xs:complexType name="leaveFederation">
    <xs:sequence>
        <xs:element name="arg0" type="xs:string" minOccurs="0"/>
        <xs:element name="arg1" type="tns:endpointReferenceType"
minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="leaveFederationResponse">
    <xs:sequence>
        <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="dissolveFederation">
    <xs:sequence>
        <xs:element name="arg0" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="dissolveFederationResponse">
    <xs:sequence>
        <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="createFederation">
    <xs:sequence>

```



```

        <xs:element name="arg0" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="createFederationResponse">
    <xs:sequence>
        <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="routeEvent">
    <xs:sequence>
        <xs:element name="arg0" type="tns:endpointReferenceType"
minOccurs="0"/>
        <xs:element name="arg1" type="tns:event" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="event">
    <xs:sequence>
        <xs:element name="creationDate" type="xs:dateTime" minOccurs="0"/>
        <xs:element name="eventID" type="xs:string" minOccurs="0"/>
        <xs:element name="msg" type="xs:string" minOccurs="0"/>
        <xs:element name="topicName" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="routeEventResponse">
    <xs:sequence>
        <xs:element name="return" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="connect">
    <xs:sequence>
        <xs:element name="arg0" type="xs:string" minOccurs="0"/>
        <xs:element name="arg1" type="tns:endpointReferenceType"
minOccurs="0"/>
        <xs:element name="arg2" type="tns:endpointReferenceType"
minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="connectResponse">
    <xs:sequence>
        <xs:element name="return" type="xs:boolean"/>
    </xs:sequence>
</xs:complexType>
</xs:schema>

```

## 4.5 Interfaccia IConsumer

*IConsumer* è l'interfaccia che consente ai consumatori di ricevere le notifiche. In Figura 14 è riportata una rappresentazione UML dell'interfaccia.

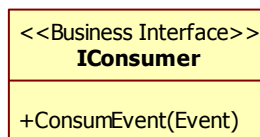


Figura 14. Interfaccia IConsumer

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IConsumer*, con i relativi schemi XSD.

### 4.5.1 IConsumerImpl.wsdl

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions targetNamespace="http://iconsumer.infse.cnr.com/"
name="IConsumerImpl" xmlns="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:tns="http://iconsumer.infse.cnr.com/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-utility-1.0.xsd">
  <types>
    <xsd:schema>
      <xsd:import namespace="http://iconsumer.infse.cnr.com/"
schemaLocation="IConsumerImpl_schema1.xsd"/>
    </xsd:schema>
  </types>
  <message name="consumEvent">
    <part name="parameters" element="tns:consumEvent"/>
  </message>
  <message name="consumEventResponse">
    <part name="parameters" element="tns:consumEventResponse"/>
  </message>
  <portType name="IConsumerImpl">
    <operation name="consumEvent">
```

```

        <input
wsam:Action="http://iconsumer.infse.cnr.com/IConsumerImpl/consumEventReq
uest" message="tns:consumEvent"/>
        <output
wsam:Action="http://iconsumer.infse.cnr.com/IConsumerImpl/consumEventRes
ponse" message="tns:consumEventResponse"/>
    </operation>
</portType>
<binding name="IConsumerImplPortBinding" type="tns:IConsumerImpl">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
    <operation name="consumEvent">
        <soap:operation soapAction=""/>
        <input>
            <soap:body use="literal"/>
        </input>
        <output>
            <soap:body use="literal"/>
        </output>
    </operation>
</binding>
<service name="IConsumerImpl">
    <port name="IConsumerImplPort"
binding="tns:IConsumerImplPortBinding">
        <soap:address location="REPLACE_WITH_ACTUAL_URL"/>
    </port>
</service>
</definitions>

```

## 4.5.2 IConsumerImpl\_schema1.xsd

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
targetNamespace="http://iconsumer.infse.cnr.com/"
xmlns:tns="http://iconsumer.infse.cnr.com/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">

    <xs:element name="consumEvent" type="tns:consumEvent"/>

    <xs:element name="consumEventResponse"
type="tns:consumEventResponse"/>

    <xs:complexType name="consumEvent">
        <xs:sequence>
            <xs:element name="arg0" type="tns:event" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>

```

```
<xs:complexType name="event">
  <xs:sequence>
    <xs:element name="creationDate" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="eventID" type="xs:string" minOccurs="0"/>
    <xs:element name="msg" type="xs:string" minOccurs="0"/>
    <xs:element name="topicName" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="consumEventResponse">
  <xs:sequence/>
</xs:complexType>
</xs:schema>
```

## 5 Gestore dei Documenti

Questa sezione presenta le interfacce WSDL della componente *Gestore dei Documenti*.

### 5.1 Interfaccia IDocumentMgt

*IDocumentMgt* è l'interfaccia per la gestione dei documenti nei repository.

In Figura 15 è riportata una rappresentazione UML dell'interfaccia.

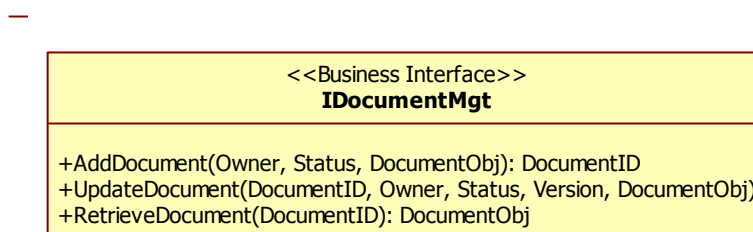


Figura 15. Interfaccia IDocumentMgt

Di seguito si riporta la codifica in linguaggio WSDL dell'interfaccia *IDocumentMgt*, con i relativi schemi XSD.

#### 5.1.1 IDocumentMgtImpl.wsdl

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<definitions
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IDocumentMgt/"
name="IDocumentMgtImpl" xmlns="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsp="http://www.w3.org/ns/ws-policy"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsdl/IDocumentMgt/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:wsp1_2="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-utility-1.0.xsd">
```

```

<types>
  <xsd:schema>
    <xsd:import
namespace="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IDocumentMgt/"
schemaLocation="IDocumentMgtImpl_schema1.xsd"/>
    </xsd:schema>
  </types>
  <message name="updateDocument">
    <part name="parameters" element="tns:updateDocument"/>
  </message>
  <message name="updateDocumentResponse">
    <part name="parameters" element="tns:updateDocumentResponse"/>
  </message>
  <message name="addDocument">
    <part name="parameters" element="tns:addDocument"/>
  </message>
  <message name="addDocumentResponse">
    <part name="parameters" element="tns:addDocumentResponse"/>
  </message>
  <message name="retrieveDocument">
    <part name="parameters" element="tns:retrieveDocument"/>
  </message>
  <message name="retrieveDocumentResponse">
    <part name="parameters" element="tns:retrieveDocumentResponse"/>
  </message>
  <portType name="IDocumentMgtImpl">
    <operation name="updateDocument">
      <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IDocumentMgt/I
DocumentMgtImpl/updateDocumentRequest" message="tns:updateDocument"/>
      <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IDocumentMgt/I
DocumentMgtImpl/updateDocumentResponse"
message="tns:updateDocumentResponse"/>
      </operation>
    <operation name="addDocument">
      <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IDocumentMgt/I
DocumentMgtImpl/addDocumentRequest" message="tns:addDocument"/>
      <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-

```

```

innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IDocumentMgt/I
DocumentMgtImpl/addDocumentResponse" message="tns:addDocumentResponse"/>
  </operation>
  <operation name="retrieveDocument">
    <input
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IDocumentMgt/I
DocumentMgtImpl/retrieveDocumentRequest"
message="tns:retrieveDocument"/>
    <output
wsam:Action="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazi
one-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd/IDocumentMgt/I
DocumentMgtImpl/retrieveDocumentResponse"
message="tns:retrieveDocumentResponse"/>
    </operation>
  </portType>
  <binding name="IDocumentMgtImplPortBinding"
type="tns:IDocumentMgtImpl">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"
style="document"/>
    <operation name="updateDocument">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
    <operation name="addDocument">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
    <operation name="retrieveDocument">
      <soap:operation soapAction=""/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
  </binding>
</service name="IDocumentMgtImpl">

```

```

    <port name="IDocumentMgtImplPort"
binding="tns:IDocumentMgtImplPortBinding">
    <soap:address location="REPLACE_WITH_ACTUAL_URL"/>
    </port>
</service>
</definitions>

```

## 5.1.2 IDocumentMgtImpl\_schema1.xsd

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema version="1.0"
targetNamespace="http://www.innovazionepa.gov.it/idipartimenti/digitaliz
zazione-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IDocumentMgt/"
xmlns:tns="http://www.innovazionepa.gov.it/idipartimenti/digitalizzazion
e-e-
innovazionetecnologica/attivita/tse/InFSE/repository/wsd1/IDocumentMgt/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="addDocument" nillable="true"
type="tns:addDocument"/>

  <xs:element name="addDocumentResponse" nillable="true"
type="tns:addDocumentResponse"/>

  <xs:element name="retrieveDocument" nillable="true"
type="tns:retrieveDocument"/>

  <xs:element name="retrieveDocumentResponse" nillable="true"
type="tns:retrieveDocumentResponse"/>

  <xs:element name="updateDocument" nillable="true"
type="tns:updateDocument"/>

  <xs:element name="updateDocumentResponse" nillable="true"
type="tns:updateDocumentResponse"/>

  <xs:complexType name="addDocument">
    <xs:sequence>
      <xs:element name="arg0" type="xs:string" minOccurs="0"/>
      <xs:element name="arg1" type="xs:string" minOccurs="0"/>
      <xs:element name="arg2" type="tns:document" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="document">
    <xs:sequence>
      <xs:element name="document" type="xs:base64Binary" minOccurs="0"/>
      <xs:element name="documentName" type="xs:string" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

```



```

        <xs:element name="documentType" type="xs:string" minOccurs="0"/>
        <xs:element name="styleSheet" type="xs:base64Binary"
minOccurs="0"/>
        <xs:element name="styleSheetName" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="addDocumentResponse">
    <xs:sequence>
        <xs:element name="return" type="tns:documentIdentifier"
minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="documentIdentifier">
    <xs:sequence>
        <xs:element name="documentID" type="xs:string" minOccurs="0"/>
        <xs:element name="IDocumentMgtUrl" type="xs:string"
minOccurs="0"/>
        <xs:element name="IDocumentUrl" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="retrieveDocument">
    <xs:sequence>
        <xs:element name="arg0" type="tns:documentIdentifier"
minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="retrieveDocumentResponse">
    <xs:sequence>
        <xs:element name="return" type="tns:document" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="updateDocument">
    <xs:sequence>
        <xs:element name="arg0" type="tns:documentIdentifier"
minOccurs="0"/>
        <xs:element name="arg1" type="xs:string" minOccurs="0"/>
        <xs:element name="arg2" type="xs:string" minOccurs="0"/>
        <xs:element name="arg3" type="xs:string" minOccurs="0"/>
        <xs:element name="arg4" type="tns:document" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="updateDocumentResponse">
    <xs:sequence/>
</xs:complexType>
</xs:schema>

```

## **Bibliografia**

- [1] InFSE – Linee guida
- [2] InFSE – Specifica delle interfacce