```xml
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions targetNamespace="urn:fws"
xmlns:fwsmodel="http://model.ws.foundation.groundwork.org"
xmlns:apachesoap="http://xml.apache.org/xml-soap" xmlns:impl="urn:fws"
xmlns:intf="urn:fws"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsdlsoap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<!--
Collage - The ultimate data integration framework.
Copyright (C) 2004-2007  GroundWork Open Source Inc.
info@groundworkopensource.com

    This program is free software; you can redistribute it and/or modify
    it under the terms of version 2 of the GNU General Public License
    as published by the Free Software Foundation.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
-->

    <wsdl:import namespace="urn:fwsmodel"
            xmlns:fwsmodel="http://model.ws.foundation.groundwork.org"
            location="../fwsmodel.wsdl" />

    <wsdl:message name="logoutRequest">
    </wsdl:message>

    <wsdl:message name="loginResponse">
       <wsdl:part name="loginReturn" type="xsd:string"/>
    </wsdl:message>

    <wsdl:message name="loginRequest">
       <wsdl:part name="userName" type="xsd:string"/>
       <wsdl:part name="password" type="xsd:string"/>
       <wsdl:part name="realUserName" type="xsd:string"/>
    </wsdl:message>

    <wsdl:message name="logoutResponse">
    </wsdl:message>

    <wsdl:message name="getAttributeDataRequest">
       <wsdl:part name="type" type="fwsmodel:AttributeQueryType"/>
    </wsdl:message>

    <wsdl:message name="getAttributeDataResponse">
       <wsdl:part name="getAttributeDataReturn"
```

```xml
      type="fwsmodel:WSFoundationCollection"/>
</wsdl:message>

<wsdl:message name="getAttributeDataByStringRequest">
   <wsdl:part name="type" type="xsd:string"/>
</wsdl:message>

<wsdl:message name="getAttributeDataByStringResponse">
   <wsdl:part name="getAttributeDataByStringReturn"
   type="fwsmodel:WSFoundationCollection"/>
</wsdl:message>

<wsdl:message name="executeQueryRequest">
   <wsdl:part name="sessionID" type="xsd:int"/>
</wsdl:message>

<wsdl:message name="executeQueryResponse">
   <wsdl:part name="executeQueryReturn"
   type="fwsmodel:WSFoundationCollection"/>
</wsdl:message>

<wsdl:message name="cancelQueryRequest">
   <wsdl:part name="sessionID" type="xsd:int"/>
</wsdl:message>

<wsdl:message name="cancelQueryResponse">
   <wsdl:part name="cancelQueryReturn" type="xsd:string"/>
</wsdl:message>

<wsdl:message name="WSFoundationException">
   <wsdl:part name="fault" element="fwsmodel:WSFoundationException"/>
</wsdl:message>

<wsdl:message name="getEntityTypesRequest">
</wsdl:message>

<wsdl:message name="getEntityTypesResponse">
   <wsdl:part name="getEntityTypesReturn"
   type="fwsmodel:WSFoundationCollection"/>
</wsdl:message>

<wsdl:message name="getEntityTypePropertiesRequest">
   <wsdl:part name="entityType" type="xsd:string"/>
   <wsdl:part name="applicationType" type="xsd:string"/>
   <wsdl:part name="componentProperties" type="xsd:boolean"/>
</wsdl:message>

<wsdl:message name="getEntityTypePropertiesResponse">
   <wsdl:part name="getEntityTypePropertiesReturn"
   type="fwsmodel:WSFoundationCollection"/>
</wsdl:message>

<wsdl:message name="performEntityQueryRequest">
   <wsdl:part name="entityType" type="xsd:string"/>
```

```xml
      <wsdl:part name="filter" type="fwsmodel:Filter"/>
      <wsdl:part name="sort" type="fwsmodel:Sort"/>
      <wsdl:part name="firstResult" type="xsd:int"/>
      <wsdl:part name="maxResults" type="xsd:int"/>
</wsdl:message>

<wsdl:message name="performEntityQueryResponse">
      <wsdl:part name="performEntityQueryReturn"
      type="fwsmodel:WSFoundationCollection"/>
</wsdl:message>

<wsdl:message name="performEntityCountQueryRequest">
      <wsdl:part name="entityType" type="xsd:string"/>
      <wsdl:part name="filter" type="fwsmodel:Filter"/>
</wsdl:message>

<wsdl:message name="performEntityCountQueryResponse">
      <wsdl:part name="performEntityCountQueryReturn" type="xsd:int"/>
</wsdl:message>

<wsdl:message name="getActionsByApplicationTypeRequest">
      <wsdl:part name="appType" type="xsd:string"/>
      <wsdl:part name="bIncludeSystem" type="xsd:boolean"/>
</wsdl:message>

<wsdl:message name="getActionsByApplicationTypeResponse">
      <wsdl:part name="getActionsByApplicationTypeReturn"
      type="fwsmodel:WSFoundationCollection"/>
</wsdl:message>

<wsdl:message name="getActionsByCriteriaRequest">
      <wsdl:part name="filter" type="fwsmodel:Filter"/>
      <wsdl:part name="sort" type="fwsmodel:Sort"/>
      <wsdl:part name="firstResult" type="xsd:int"/>
      <wsdl:part name="maxResults" type="xsd:int"/>
</wsdl:message>

<wsdl:message name="getActionsByCriteriaResponse">
      <wsdl:part name="getActionsByCriteriaReturn"
      type="fwsmodel:WSFoundationCollection"/>
</wsdl:message>

<wsdl:message name="performActionsRequest">
      <wsdl:part name="actionPerforms" type="fwsmodel:ActionPerform[]"/>
</wsdl:message>

<wsdl:message name="performActionsResponse">
      <wsdl:part name="performActionsReturn"
      type="fwsmodel:WSFoundationCollection"/>
</wsdl:message>

<wsdl:message name="searchEntityRequest">
      <wsdl:part name="text" type="xsd:string"/>
       <wsdl:part name="maxresults" type="xsd:int"/>
```

```xml
    </wsdl:message>

<wsdl:message name="searchEntityResponse">
    <wsdl:part name="searchEntityReturn"
    type="fwsmodel:WSFoundationCollection"/>
</wsdl:message>

<wsdl:portType name="WSCommon">
    <wsdl:operation name="login" parameterOrder="userName password
    realUserName">
        <wsdl:input message="impl:loginRequest" name="loginRequest"/>
        <wsdl:output message="impl:loginResponse" name="loginResponse"/>
    </wsdl:operation>
    <wsdl:operation name="logout">
        <wsdl:input message="impl:logoutRequest" name="logoutRequest"/>
        <wsdl:output message="impl:logoutResponse" name="logoutResponse"/>
    </wsdl:operation>
    <wsdl:operation name="getAttributeData" parameterOrder="type">
        <wsdl:input message="impl:getAttributeDataRequest"
        name="getAttributeDataRequest"/>
        <wsdl:output message="impl:getAttributeDataResponse"
        name="getAttributeDataResponse"/>
        <wsdl:fault message="impl:WSFoundationException"
        name="WSFoundationException"/>
    </wsdl:operation>
    <wsdl:operation name="getAttributeDataByString" parameterOrder="type">
        <wsdl:input message="impl:getAttributeDataByStringRequest"
        name="getAttributeDataByStringRequest"/>
        <wsdl:output message="impl:getAttributeDataByStringResponse"
        name="getAttributeDataByStringResponse"/>
        <wsdl:fault message="impl:WSFoundationException"
        name="WSFoundationException"/>
    </wsdl:operation>

    <wsdl:operation name="cancelQuery" parameterOrder="sessionID">
        <wsdl:input message="impl:cancelQueryRequest"
        name="cancelQueryRequest"/>
        <wsdl:output message="impl:cancelQueryResponse"
        name="cancelQueryResponse"/>
        <wsdl:fault message="impl:WSFoundationException"
        name="WSFoundationException"/>
    </wsdl:operation>
    <wsdl:operation name="executeQuery" parameterOrder="sessionID">
        <wsdl:input message="impl:executeQueryRequest"
        name="executeQueryRequest"/>
        <wsdl:output message="impl:executeQueryResponse"
        name="executeQueryResponse"/>
        <wsdl:fault message="impl:WSFoundationException"
        name="WSFoundationException"/>
    </wsdl:operation>

    <wsdl:operation name="getEntityTypes">
        <wsdl:input message="impl:getEntityTypesRequest"
        name="getEntityTypesRequest"/>
```

```xml
      <wsdl:output message="impl:getEntityTypesResponse"
      name="getEntityTypesResponse"/>
      <wsdl:fault message="impl:WSFoundationException"
      name="WSFoundationException"/>
</wsdl:operation>

<wsdl:operation name="getEntityTypeProperties"
parameterOrder="entityType applicationType componentProperties">
      <wsdl:input message="impl:getEntityTypePropertiesRequest"
      name="getEntityTypePropertiesRequest"/>
      <wsdl:output message="impl:getEntityTypePropertiesResponse"
      name="getEntityTypePropertiesResponse"/>
      <wsdl:fault message="impl:WSFoundationException"
      name="WSFoundationException"/>
</wsdl:operation>

<wsdl:operation name="performEntityQuery" parameterOrder="entityType
filter sort firstResult maxResults">
      <wsdl:input message="impl:performEntityQueryRequest"
      name="performEntityQueryRequest"/>
      <wsdl:output message="impl:performEntityQueryResponse"
      name="performEntityQueryResponse"/>
      <wsdl:fault message="impl:WSFoundationException"
      name="WSFoundationException"/>
</wsdl:operation>

<wsdl:operation name="performEntityCountQuery"
parameterOrder="entityType filter">
      <wsdl:input message="impl:performEntityCountQueryRequest"
      name="performEntityCountQueryRequest"/>
      <wsdl:output message="impl:performEntityCountQueryResponse"
      name="performEntityCountQueryResponse"/>
      <wsdl:fault message="impl:WSFoundationException"
      name="WSFoundationException"/>
</wsdl:operation>

<wsdl:operation name="getActionsByApplicationType"
parameterOrder="appType bIncludeSystem">
      <wsdl:input message="impl:getActionsByApplicationTypeRequest"
      name="getActionsByApplicationTypeRequest"/>
      <wsdl:output message="impl:getActionsByApplicationTypeResponse"
      name="getActionsByApplicationTypeResponse"/>
      <wsdl:fault message="impl:WSFoundationException"
      name="WSFoundationException"/>
</wsdl:operation>

<wsdl:operation name="getActionsByCriteria" parameterOrder="filter sort
firstResult maxResults">
      <wsdl:input message="impl:getActionsByCriteriaRequest"
      name="getActionsByCriteriaRequest"/>
      <wsdl:output message="impl:getActionsByCriteriaResponse"
      name="getActionsByCriteriaResponse"/>
      <wsdl:fault message="impl:WSFoundationException"
      name="WSFoundationException"/>
```

```xml
      </wsdl:operation>

      <wsdl:operation name="performActions" parameterOrder="actionPerforms">
         <wsdl:input message="impl:performActionsRequest"
         name="performActionsRequest"/>
         <wsdl:output message="impl:performActionsResponse"
         name="performActionsResponse"/>
         <wsdl:fault message="impl:WSFoundationException"
         name="WSFoundationException"/>
      </wsdl:operation>

      <wsdl:operation name="searchEntity" parameterOrder="text maxresults">
         <wsdl:input message="impl:searchEntityRequest"
         name="searchEntityRequest"/>
         <wsdl:output message="impl:searchEntityResponse"
         name="searchEntityResponse"/>
         <wsdl:fault message="impl:WSFoundationException"
         name="WSFoundationException"/>
      </wsdl:operation>
   </wsdl:portType>

   <wsdl:binding name="commonSoapBinding" type="impl:WSCommon">
      <wsdlsoap:binding style="rpc"
      transport="http://schemas.xmlsoap.org/soap/http"/>
      <wsdl:operation name="login">
         <wsdlsoap:operation soapAction=""/>
         <wsdl:input name="loginRequest">
            <wsdlsoap:body
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            namespace="urn:fws" use="literal"/>
         </wsdl:input>
         <wsdl:output name="loginResponse">
            <wsdlsoap:body
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            namespace="urn:fws" use="literal"/>
         </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="logout">
         <wsdlsoap:operation soapAction=""/>
         <wsdl:input name="logoutRequest">
            <wsdlsoap:body
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            namespace="urn:fws" use="literal"/>
         </wsdl:input>
         <wsdl:output name="logoutResponse">
            <wsdlsoap:body
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            namespace="urn:fws" use="literal"/>
         </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="getAttributeData">
         <wsdlsoap:operation soapAction="/foundation-
         webapp/services/wscommon"/>
         <wsdl:input name="getAttributeDataRequest">
```

```xml
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:input>
   <wsdl:output name="getAttributeDataResponse">
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:output>
   <wsdl:fault name="WSFoundationException">
      <wsdlsoap:fault
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      name="WSFoundationException" use="literal"/>
   </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="getAttributeDataByString">
   <wsdlsoap:operation soapAction="/foundation-
   webapp/services/wscommon"/>
   <wsdl:input name="getAttributeDataByStringRequest">
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:input>
   <wsdl:output name="getAttributeDataByStringResponse">
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:output>
   <wsdl:fault name="WSFoundationException">
      <wsdlsoap:fault
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      name="WSFoundationException" use="literal"/>
   </wsdl:fault>
</wsdl:operation>

<wsdl:operation name="cancelQuery">
   <wsdlsoap:operation soapAction="/foundation-
   webapp/services/wscommon"/>
   <wsdl:input name="cancelQueryRequest">
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:input>
   <wsdl:output name="cancelQueryResponse">
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:output>
   <wsdl:fault name="WSFoundationException">
      <wsdlsoap:fault
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      name="WSFoundationException" use="literal"/>
   </wsdl:fault>
</wsdl:operation>
```

```xml
<wsdl:operation name="executeQuery">
   <wsdlsoap:operation soapAction="/foundation-
   webapp/services/wscommon"/>
   <wsdl:input name="executeQueryRequest">
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:input>
   <wsdl:output name="executeQueryResponse">
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:output>
   <wsdl:fault name="WSFoundationException">
      <wsdlsoap:fault
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      name="WSFoundationException" use="literal"/>
   </wsdl:fault>
</wsdl:operation>

<wsdl:operation name="getEntityTypes">
   <wsdlsoap:operation soapAction="/foundation-
   webapp/services/wscommon"/>
   <wsdl:input name="getEntityTypesRequest">
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:input>
   <wsdl:output name="getEntityTypesResponse">
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:output>
   <wsdl:fault name="WSFoundationException">
      <wsdlsoap:fault
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      name="WSFoundationException" use="literal"/>
   </wsdl:fault>
</wsdl:operation>

<wsdl:operation name="getEntityTypeProperties">
   <wsdlsoap:operation soapAction="/foundation-
   webapp/services/wscommon"/>
   <wsdl:input name="getEntityTypePropertiesRequest">
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:input>
   <wsdl:output name="getEntityTypePropertiesResponse">
      <wsdlsoap:body
      encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
      namespace="urn:fws" use="literal"/>
   </wsdl:output>
```

```xml
        <wsdl:fault name="WSFoundationException">
           <wsdlsoap:fault
           encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
           name="WSFoundationException" use="literal"/>
        </wsdl:fault>
</wsdl:operation>

<wsdl:operation name="performEntityQuery">
    <wsdlsoap:operation soapAction="/foundation-
    webapp/services/wscommon"/>
    <wsdl:input name="performEntityQueryRequest">
        <wsdlsoap:body
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="urn:fws" use="literal"/>
    </wsdl:input>
    <wsdl:output name="performEntityQueryResponse">
        <wsdlsoap:body
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="urn:fws" use="literal"/>
    </wsdl:output>
    <wsdl:fault name="WSFoundationException">
        <wsdlsoap:fault
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        name="WSFoundationException" use="literal"/>
    </wsdl:fault>
</wsdl:operation>

<wsdl:operation name="performEntityCountQuery">
    <wsdlsoap:operation soapAction="/foundation-
    webapp/services/wscommon"/>
    <wsdl:input name="performEntityCountQueryRequest">
        <wsdlsoap:body
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="urn:fws" use="literal"/>
    </wsdl:input>
    <wsdl:output name="performEntityCountQueryResponse">
        <wsdlsoap:body
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="urn:fws" use="literal"/>
    </wsdl:output>
    <wsdl:fault name="WSFoundationException">
        <wsdlsoap:fault
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        name="WSFoundationException" use="literal"/>
    </wsdl:fault>
</wsdl:operation>

<wsdl:operation name="getActionsByApplicationType">
    <wsdlsoap:operation soapAction="/foundation-
    webapp/services/wscommon"/>
    <wsdl:input name="getActionsByApplicationTypeRequest">
        <wsdlsoap:body
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="urn:fws" use="literal"/>
```

```xml
        </wsdl:input>
        <wsdl:output name="getActionsByApplicationTypeResponse">
            <wsdlsoap:body
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            namespace="urn:fws" use="literal"/>
        </wsdl:output>
        <wsdl:fault name="WSFoundationException">
            <wsdlsoap:fault
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            name="WSFoundationException" use="literal"/>
        </wsdl:fault>
    </wsdl:operation>

    <wsdl:operation name="getActionsByCriteria">
        <wsdlsoap:operation soapAction="/foundation-
        webapp/services/wscommon"/>
        <wsdl:input name="getActionsByCriteriaRequest">
            <wsdlsoap:body
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            namespace="urn:fws" use="literal"/>
        </wsdl:input>
        <wsdl:output name="getActionsByCriteriaResponse">
            <wsdlsoap:body
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            namespace="urn:fws" use="literal"/>
        </wsdl:output>
        <wsdl:fault name="WSFoundationException">
            <wsdlsoap:fault
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            name="WSFoundationException" use="literal"/>
        </wsdl:fault>
    </wsdl:operation>

    <wsdl:operation name="performActions">
        <wsdlsoap:operation soapAction="/foundation-
        webapp/services/wscommon"/>
        <wsdl:input name="performActionsRequest">
            <wsdlsoap:body
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            namespace="urn:fws" use="literal"/>
        </wsdl:input>
        <wsdl:output name="performActionsResponse">
            <wsdlsoap:body
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            namespace="urn:fws" use="literal"/>
        </wsdl:output>
        <wsdl:fault name="WSFoundationException">
            <wsdlsoap:fault
            encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
            name="WSFoundationException" use="literal"/>
        </wsdl:fault>
    </wsdl:operation>
```

```xml
<wsdl:operation name="searchEntity">
    <wsdlsoap:operation soapAction="/foundation-
    webapp/services/wscommon"/>
    <wsdl:input name="searchEntityRequest">
        <wsdlsoap:body
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="urn:fws" use="literal"/>
    </wsdl:input>
    <wsdl:output name="searchEntityResponse">
        <wsdlsoap:body
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        namespace="urn:fws" use="literal"/>
    </wsdl:output>
    <wsdl:fault name="WSFoundationException">
        <wsdlsoap:fault
        encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
        name="WSFoundationException" use="literal"/>
    </wsdl:fault>
</wsdl:operation>
</wsdl:binding>

<wsdl:service name="WSCommonService">
    <wsdl:port binding="impl:commonSoapBinding" name="wscommon">
        <wsdlsoap:address location="http://localhost:8080/foundation-
        webapp/services/wscommon"/>
    </wsdl:port>
</wsdl:service>

</wsdl:definitions>
```