

### **Organizational Agent - OWL Ontology:**

The OWL ontology is used to delegate queries to the responsible Personal Agents. It is called upon by the Prova knowledge base.

- **Responsible:**

This is the most commonly used aspect of the OWL ontology. Each topic queried in the ontology has a PA which is responsible for it. It is defined by:

```
...  
  
<owl:ObjectProperty rdf:ID="responsible">  
  <rdfs:comment>  
    This role conducts the actual work/owns the problem. There should  
    be only one R. If multiple R s are listed, then the work needs to  
    be further subdivided to a lower level.  
  </rdfs:comment>  
  <rdf:type rdf:resource="owl:FunctionalProperty"/>  
  <rdfs:domain rdf:resource="#WhatDomainResponsibilityIsIn-eg-OAName"/>  
  <rdfs:range rdf:resource="#Responsibility"/>  
</owl:ObjectProperty>  
  
<owl:Class rdf:ID="Responsibility">  
  <rdfs:subClassOf rdf:resource="#TheOrganizationalAgentName"/>  
</owl:Class>  
  
<Responsibility rdf:ID="A-PA-Name"/>  
  
<SomeUniqueName rdf:ID="TheOrganizationalAgentName ">  
  <responsible rdf:resource="#A-Responsible-Topic"/>  
</SomeUniqueName>  
  
...
```

Note that the hash (#) denotes the remainder of the ontology, e.g.:

*"TheOrganizationalAgentName\_A-Responsible-Topic"*

Here is an example for WellnessRules following the one seen above:

...

```

<owl:ObjectProperty rdf:ID="responsible">
  <rdfs:comment>
    This role conducts the actual work/owns the problem. There should
    be only one R. If multiple R s are listed, then the work needs to
    be further subdivided to a lower level.
  </rdfs:comment>
  <rdf:type rdf:resource="owl:FunctionalProperty"/>
  <rdfs:domain rdf:resource="#Activity"/>
  <rdfs:range rdf:resource="#Responsibility"/>
</owl:ObjectProperty>

<owl:Class rdf:ID="Activity_Walking">
  <rdfs:subClassOf rdf:resource="#Activity"/>
</owl:Class>

<Activity_Walking rdf:ID="Walking">
  <responsible rdf:resource="#Walking"/>
</Activity_Walking>

...

```