

# **Knowledgebase tools for working with Ontology**

*description*

## Main panel. Sight

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On sl.2 we can see the dictionary panel for working with concepts of our ontology.

From your right we have the list of concepts and their dependence for type of relations (triples).

The triples you can see from your left part where we can point the dependence for each concepts. As result we have a dictionary in the format on sl.4.

The tools can works with XML / JSON / RDF formats of files.

***\*JSON and RDF needs some corrections***

# Dictionary XML file

```
<?xml version="1.0" encoding="UTF-8"?>
- <hierarchy-types>
  - <is-type-relation>
    <triple id="0">0. Entity : isProperty : Property|isProperty</triple>
    <triple id="1">1. Property : inEntity : Entity|inEntity</triple>
    <triple id="2">2. Property : isDataType : DataType|isDataType</triple>
    <triple id="3">3. Property : isEntityType : EntityType|isEntityType</triple>
  </is-type-relation>
  - <types>
    - <type id="0">
      <name>BusinessEvent</name>
      <s1>X</s1>
      <o3>X</o3>
      <o7>X</o7>
    </type>
    - <type id="1">
      <name>eventID</name>
      <o1>X</o1>
      <s3>X</s3>
      <s5>X</s5>
    </type>
    - <type id="2">
      <name>subEvent</name>
      <o1>X</o1>
      <s3>X</s3>
      <s7>X</s7>
    </type>
    - <type id="3">
      <name>conditions</name>
      <o1>X</o1>
      <s3>X</s3>
```

## Panel for working with relations

On sl.6 we can see the panel for working with semantic relations among concepts of our ontology. We have the table's presentation of semantic relations among concepts.

Here, clicking the mouse, we can easy make relation "X" between subject and object. The name of table presentation is equal to the type of relations. So, when we see on sl.2 we will have 4 types of relations: "isProperty", "inEntity", "isDataType", "isEntityType".

On. sl.6 we can see the relations of properties with entity "BusinessEvent". We add other entities, but will make relations when they will have their. After, we save file we will have it on sl.7.

We execute this procedure for all type of relations (sl.8-11)

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```

- <subject id="0">
  <subject_name>BusinessEvent</subject_name>
  <object_name>eventID</object_name>
  <object_name>subEvent</object_name>
  <object_name>conditions</object_name>
  <object_name>sponsor</object_name>
  <object_name>businessCondition</object_name>
  <object_name>startDate</object_name>
  <object_name>performer</object_name>
  <object_name>transaction</object_name>
  <object_name>offers</object_name>
  <object_name>location</object_name>
  <object_name>language</object_name>
  <object_name>funder</object_name>
  <object_name>eventStatus</object_name>
  <object_name>endDate</object_name>
  <object_name>duration</object_name>
  <object_name>doorTime</object_name>
  <object_name>contributor</object_name>
  <object_name>btEvent</object_name>
  <object_name>attendee</object_name>
  <object_name>eventActivity</object_name>
  <object_name>eventRisk</object_name>
  <object_name>superEvent</object_name>
  <object_name>eventName</object_name>
</subject>
- <subject id="1">
  <subject_name>BusinessCondition</subject_name>
</subject>
- <subject id="2">
  <subject_name>BusinessProtocol</subject_name>
  <object_name>event</object_name>
</subject>
- <subject id="3">
  <subject_name>Person</subject_name>
</subject>
- <subject id="4">
  <subject_name>Organization</subject_name>

```







GraphOf Types      GraphBy\_Fields      Graph\_3 XML      Property by Types      toShow Relations

☒ XML/RDF

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# Conclusion

- When we have data we can program once taxonomy and generate it many times automatically when we need after improving or changing

How it works with taxonomy I can show when I will design it. Will try on next week.

Thank you