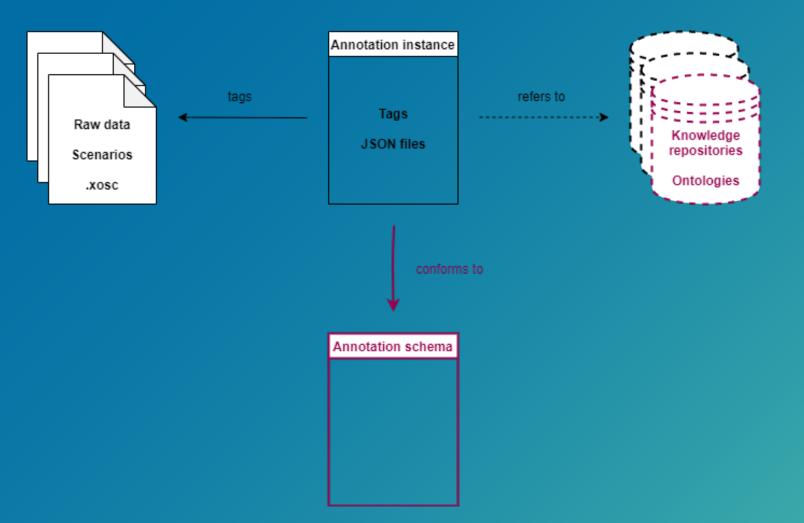
Intro To Scenario Tagging

OpenLABEL V1.0.0 Release Webinar



Intro to Scenario Tagging

OpenLABEL V1.0.0



Documentation:

- Presents the ontology providing the set of standardized ASAM OpenLABEL scenario tags.
- Explains the semantics and the logic governing the semantics of the ASAM OpenLABEL scenario tags.
- Documents the annotation schema to which valid ASAM OpenLABEL scenario tagging annotation instances should conform to.
- Explains the mechanisms that govern the reference to external knowledge repositories, such as ontologies, that organize and define the semantics of the labels.



OpenLABEL V1.0.0 Scenario Tagging

tags

```
example.xosc
<?xml version="1.0" encoding="utf-8"?>
 <FileHeader revMajor="1"
            revMinor="0"
            date="2020-06-16T10:00:00"
            description="Example Scenario"
            author="John Doe">
 </fileHeader>
 </ManeuverGroup>
  <StartTrigger>
   <ConditionGroup>
      <Condition name="ExampleCondition"</pre>
                     delay="0" conditionEdge="rising">
       <BvValueCondition>
         <SimulationTimeCondition value="0"
                                 rule="greaterThan" />
       </ByValueCondition>
     </Condition>
   </ConditionGroup>
  </StartTrigger>
  </Act>
  </Story>
  <Story name="CutInStory">
    <Act name="CutInAct">
     <ManeuverGroup maximumExecutionCount="1"
                    name="CutInSequence">
      <Actors selectTriggeringEntities="false">
        <EntityRef entityRef="CutInVehicle" />
```

```
example.json
  "openlabel": {
     "metadata":
        "schema_version": "1.0.0",
        "tagged_file": "../resources/scenarios/example.xosc"
     "ontologies":
       "0": {
          "uri": "https://openlabel.asam.net/V1-0-0/
ontologies/openlabel_ontology_scenario_tags.ttl"
     "tags":
"0": {
          "type": "RoadTypeMinor",
          "ontology_uid": "0"
          "type": "MotionCutIn",
          "ontology_uid": "0"
        "2": {
          "type": "scenarioVersion",
          "ontology uid": "0",
          "tag data": {
               "type": "value"
               "val": "1.0"
```

```
openlabel_ontology_scenario_tags.ttl
@base <https://openlabel.asam.net/V1-0-0/ontologies/>
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
<RoadTypeMinor> a rdfs:Class
rdfs:subClassOf <DrivableAreaTvpe>
<MotionCutIn> a rdfs:Class ;
rdfs:subClassOf <BehaviourMotion>
<scenarioVersion> a rdfs:Property
  rdfs:label "Scenario version"@en
  rdfs:domain <Scenario>
  rdfs:range rdfs:Literal
```

refers to

conforms to

```
openlabel_json_schema.json
  "openlabel" : {
    "properties":
      "metadata": {..
      "ontologies": {...}
       "tags": {...}
```



JSON Schema Scenario Tagging Structure

OpenLABEL V1.0.0

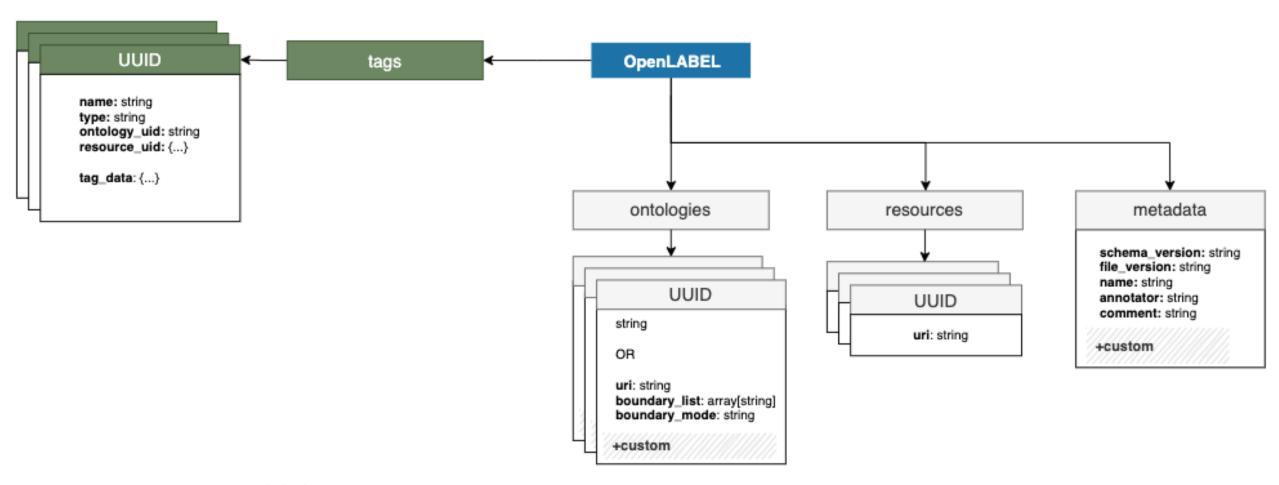


Figure 64. ASAM OpenLABEL labeling structure



Scenario Tagging Standardized Tags

Tags are delivered as a file expressed in RDF Turtle Syntax

ODD Tags Behaviour Tags Admin Tags Operational Domain Design Behavior tags: Behavior tags Administration tags: (ODD) tags: ODD tags describe describe the types of road users Administration tags describe things the environmental conditions and and the behaviors exhibited by about a scenario which cannot or them in a scenario, such as a may not easily be derived from a road features present in a scenario, such as rainfall and pedestrian who is walking scenario, such as the creation date of a scenario junction. The ASAM OpenLABEL ODD tags are aligned with and share their definitions with the BSI PAS 1883 ODD Taxonomy,



Thank you for your attention!

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