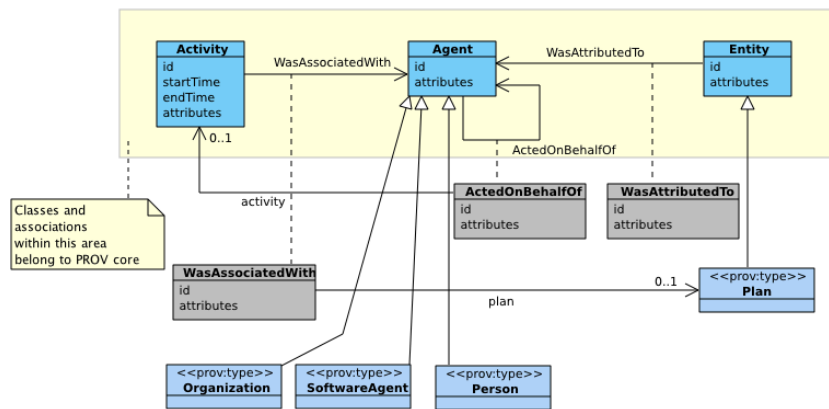


PROV Data Model - RDF Interoperability –

Data Properties, Object Properties, UML Attributes, UML Associations

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In PROV-O, prov:atLocation, rdf:type, prov:hadRole:

- are object properties
- are not data properties
- expect an URI as object

```
ex:MonaLisa a prov:Entity,  
ex:StillImage;
```

```
prov:hadLocation ex:Paris.
```

```
entity(ex:MonaLisa,  
  [ prov:location="Paris",  
    prov:type="StillImage" ] )
```

In PROV-DM/PROV-N: prov:location, prov:type, prov:role:

- are defined as attributes
- are not association between top-level classes
- allow for strings as values.

- provtoolbox roundtrip conversion require a map from the other, and vice-versa
- Solution directions:
 - Both data/object properties?
 - Both UML attributes/associations?
 - Adhoc translations?
 - Learn from JSON-LD context?