


WEEK 7 TASK

Tim Cheeseman

Show that MSG1134 is type Message

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- MSG1134 is type N4242Spectrometry

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- N4242Spectrometry is equivalent to a Message having a specific format value

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- MSG1134 is type Message (entailed)

Use Pellet to Entail

- `./pellet.sh explain --instance http://ontonet.org/full-example.rdf#MSG1134,http://ontonet.org/message.owl#Message full-example.rdf`
- Axiom:
MSG1134 type Message
- Explanation:
MSG1134 type N4242Spectrometry
N4242Spectrometry equivalentTo Message
and format value

Add New Instance

```
<msg:Message rdf:about="&ex;#MSG1999"> <msg:format
rdf:resource="&nist-ansi-n4242xsd;#" />
  <msg:source>
    <cbr2:Fixed-FT-IR rdf:about="#Sensor05AB">
      <msg:org rdf:resource="&orgs;#NEAir-Haz" />
    </cbr2:Fixed-FT-IR>
  </msg:source>
  <cbr:nuclideDetected>
    <cbr2:Am-241 >
      <cbr:confidence>97.0</cbr:confidence>
      <cbr2:concentration>0.011</cbr2:concentration>
    </cbr2:Am-241 >
  </cbr:nuclideDetected>
</msg:Message>
```

Show that MSG1999 is type N4242Spectrometry



- MSG1999 is type *Message*

- MSG1999 has a specific format value

- N4242Spectrometry is equivalent to a *Message* having the same format value

- MSG1999 is type N4242Spectrometry (entailed)

Use Pellet to Entail

- `./pellet.sh explain --instance http://ontonet.org/full-example.rdf#MSG1999,http://ontonet.org/cbr2.owl#N4242Spectrometry full-example-modified.rdf`
- Axiom:
MSG1999 type N4242Spectrometry
- Explanation:
MSG1999 type Message
MSG1999 format
N4242Spectrometry equivalentTo Message
and format value