A sensor measurement case

sensor-iof: TurbidityMeasuement

sensor-iof: TemperatureMeasurement

sensor-iof: TurbiditySensor

sensor-iof: TemperatureSensor

saref:Device

saref:Measurement

iof-core:MeasurementInformationContentEntity

Iof-core:PieceOfEquipment

oc:6518bddd-6e4c-486a-911c-554014ff9e74

oc:37a74125-b08c-4edc-9540-4d064034a440

dolce:NonAgentivephysicalObject

dolce:NonPhysicalEndurant

DOLCE

BFO

bfo:0000031

bfo:0000030

Bridge Terms

IOF-Core

SAREF-Core

Sensor-measures-iof.owl

Sensor-core.owl and measure-core.owl are two files containing bridge terms oc:37a74125-b08c-4edc-9540-4d064034a440 and oc:6518bddd-6e4c-486a-911c-554014ff9e74 respectively along with their corresponding mappings to BFO and DOLCE.

iof-core-mapping.owl contains the mapping of IOF-Core terms to bridge terms. saref-mapping.owl contains the mapping of SAREF-Core to the bridge terms.

sensor-measures-iof.owl and sensor-measures-saref.owl are application ontologies declaring some terms under the IOF-Core and Saref-core respectively.

No files contain any import declaration. BFO and DOLCE source ontologies can be found at <https://github.com/OntoCommons/OntologyFramework/tree/main/owl/TRO/TLOs> and the mappings between them at <https://github.com/OntoCommons/OntologyFramework/tree/main/owl/TRO/META>

IOF-Core can be imported from <https://spec.industrialontologies.org/iof/ontology/core/Core/>

SAREF-Core can be imported from <https://saref.etsi.org/core/>

Case 1: Deduce the imports for sensor-measures-iof.owl with both BFO and DOLCE as TLO

Case 2: Deduce the imports for sensor-measures-saref.owl with only DOLCE as TLO