class Figure 31: Context Diagram: Sample

From ISO 19156 Observations, measurements and samples - Conceptual observation schema

«interface»
Observation

+ phenomenonTime: TM_Object
+ resultTime: TM_Object
+ validTime: TM_Period [0..*]

constraints
{/rec/obs-cpt/Observation/observedProperty-con}
{/rec/obs-cpt/Observation/observerhost-con}
{/rec/obs-cpt/Observation/observingProcedure-con}
{/rec/obs-cpt/Observation/phenomenonTimeResult-con}
{/rec/obs-cpt/Observation/result-con}
{/rec/obs-cpt/Observation/uom-con}
{/req/obs-cpt/Observation/uom}

+relatedObservation

role: GenericName

0..*

«interface»
Procedure

From ISO 19156 Observations, measurements and samples - Abstract observation core

«DataType»
NamedValue

+ name: GenericName
+ value: Any

From ISO 19156 Observations, measurements and samples - Conceptual sample schema

«interface»
Sampling

0..* +sampling

«interface»
PreparationProcedure

+processingDetails
0..*

«interface»
Sample

+relatedSample
context: GenericName
0..*

«interface»
PreparationStep

0..* +samplePreparationStep

0..* +preparationStep

From ISO 19156 Observations, measurements and samples - Abstract sample core

«FeatureType»
AbstractSample

+ sampleType: AbstractSampleType [0..*]
+ parameter: NamedValue [0..*]

«use»

«CodeList»
AbstractSampleType

tags
asDictionary = true
extensibility = any

«use»

From ISO 19103 Conceptual schema language - Any type

+sampledFeature
/1..*

«interface»
Any

+metadata
0..*

«CodeList»
SampleTypeByGeometryType

constraints
{/req/sam-basic/SampleTypeByGeometryType/SampleTypeByGeometryType-con}
{/req/sam-basic/SampleTypeByGeometryType/SampleTypeByGeometryType-sem}

tags
asDictionary = true
extensibility = open
vocabulary = http://www.opengis.net/def/sample-type/OGC/0/by-geometry-type

«FeatureType»
Sample

«FeatureType»
SpatialSample

+ shape: Geometry [0..1]
+ horizontalPositionalAccuracy: Any [0..1]
+ verticalPositionalAccuracy: Any [0..1]

«FeatureType»
MaterialSample

+ size: PhysicalDimension [0..*]
+ storageLocation: NamedLocation [0..1]
+ sourceLocation: Geometry [0..1]

«FeatureType»
StatisticalSample

+ classification: StatisticalClassification [0..*]

«use»

«DataType»
NamedLocation

+ name: GenericName [0..*]
+ representativeGeometry: Geometry [0..1]
+ address: Any [0..*]

«use»

«DataType»
PhysicalDimension

+ dimension: URI
+ value: Measure

«use»

«DataType»
StatisticalClassification

+ concept: URI
+ classification: URI