Top level IGSN

-IGSN
-ResourceURI
-Registrant
-timeStamp
-Status

Characteristic operations:

Put or post Identifier

Validate registration, ResourceURI

Restrict registrants to trusted authorities

Register namespace, registrant

Dereference IGSN-- to local instance metadata

Registrant is an object including a URI for the agent that registered the IGSN, with contact information. Probably a link to some other registry of trusted parties.

Top Level SESAR

-IGSN
-Registrant
-MetadataTimeStamp
-Title
-Description
-SamplingLocation
-SamplingTime
-Distributor
-Originator
-SpecimenType
-MaterialClass
-SamplingMethod

Characteristic operations:

Put or post Identifier

Register namespace

Registrant specifies the party that created the specimen registration

Sampling location is a lat-long bounding box (more specific location information provided in local schema)

Distributor is object including information on party currrently curating sample, where it is, how to access the sample

Originator is an object including organization, project, cruise, people associated with sample collection

Specimen type uses weakly controlled vocabulary; may have multiple values

Material class uses, high-level material type controlled vocabulary like {rock, sediment, organic fluid, inorganic fluid, biologic material...}

Sampling method used weakly controlled vocabulary; may have multiple values.

Controlled vocabulary instances should include a URI for the containing vocabulary, URI for term, and a label (plain language) for the term

Local SESAR Node

-IGSN
-SamplePhysicalSize
-SampleEvent
-RelatedResource
-SamplingMethodDetails
-ProcessingHistory
-CurationHistory
-more local detail...

Local nodes provide all top level SESAR metadata content using same namespace and encoding, but may add additional content specific to their requirements

Characteristic operations:

Register specimen

Some example content information that may be included for domain-specific local repositories.

Most of these items would be objects with a variety of bundled content.