Mapping from iSamples core 1.0 sample description schema to IGSN element schema.

| iSamplesSchemaCore1.0 | iSamples notes | **IGSN Element** | Definition |
| --- | --- | --- | --- |
| -- affiliation identifier | organization in an affiliation does not have an identifier in iSamples, could put in affiliation. | registrant/ affiliation/identifier | has identifier type |
| -- geometry spatial reference system | Not applicable, iSamples requires WGS84 | geometry/sridType | controlled vocabulary; only value is '4326', apparently requiring use of WGS84? |
| -- location URI | An identifier for the geographical locality where the material sample was collected. | toponym/identifier |  |
| -- metadata update date | Update date not currently included | logElement [event = updated] @timeStamp |  |
| -- name identifier scheme name | no iSamples property. | collector/identifier/ identifierType |  |
| -- publication year | Time stamp for when the sample registration information is made public through the identifier authority; not currently included in iSamples metadata, use year of sample registration; If an embargo period has been in effect, use the date when the embargo period ends. | logElement [eventtype = registered] @timeStamp | Log of events relevant to the object. Events have eventType, timeStamp and comments. eventType in {submitted, registered, updated, deprecated, destroyed} |
| -- related identifier type | no iSamples equivalent. Default to PURL, unless you can determine its one of the others in the DataCite vocabulary. | relatedIdentifierType | Has relatedIdentifierType in {doi, handle, lsid, url, urn, igsn} |
| alternate\_identifiers/ identifier |  | alternateIdentifier |  |
| alternate\_identifiers/ scheme\_name |  | alternateIdentifier/ identifierType |  |
| curation/ access\_constraints | cultural, legal or other policy issues that bear on access to view, borrow, or subsample a sample (Curation) | sampleAccess |  |
| description | free text description of the physical sample, and any related information. Include as much detail as will be useful for users to find the sample and understand its context. | description | Free text, anything else that might be useful to know about the sample at its ‘birth’. |
| has\_material\_sample\_object\_type/ label | repeat label and uri, from iSamples Material Sample Object Type vocabulary. | alternateResourceType | map to iSamples vocabulary |
| keywords/keyword | An identifier for the nomenclatural (not taxonomic) details of a scientific name. | alternateResourceType | alternateMaterial | include verbatim as keywords; map resourceType and material to iSamples vocabulary if possible. |
| keywords/keyword [scheme\_name= IGSN\_description] |  | resourceType, material | controlled vocabulary {feature, sample, collection} and {uses ODM2 medium vocabulary} |
| label | a human intelligible string used to identify the sample; i.e. the name to use for the sample; should be unique in the scope of a sample collection. This will typically be a sample identifier or label assigned by the original collector | name | Text string for people to understand what is identified. What would typically be presented in a user interface. |
| produced\_by/ SamplingEvent/ responsibility | the responsibility is an agent-- could be person or organization, with role = 'collector'. Other agents associated with the sampling event could be included, e.g. with roles like 'sponsor', 'funder'.... | collector | Who collected the sample. has identifier, identifierType, name, affiliation that map to iSamples Agent |
| produced\_by/ SamplingEvent/ responsibility [role=collector]/ affiliation | only one affiliation associated with person in this role. | collector/affiliation/ name & affiliation/identifier | has affiliation identifier |
| produced\_by/ SamplingEvent/ responsibility [role=collector]/ identifier | only one identifier associated with person in this role. iSamples identifier value is a string. | collector/identifier |  |
| produced\_by/ SamplingEvent/ responsibility [role=collector]/name | string, name of a person. Format: {firstName MI lastName}. | collector/name |  |
| produced\_by/ SamplingEvent/ responsibility/identifier |  | contributor/identifier |  |
| produced\_by/ SamplingEvent/ responsibility/name |  | contributor/name |  |
| produced\_by/ SamplingEvent/ responsibility/role |  | contributor/ contributorType | Controlled Vocabulary |
| produced\_by/ SamplingEvent/ responsibility[roles other than 'collector', 'funder'], | Agents associated with sampling event, agent/role is subclass of 'contributor'. Need mapping from iSample roles to DataCite contributorType | contributors |  |
| produced\_by/ SamplingEvent/ sampling\_site/ place\_name | iSamples can have multiple values. | toponym/name |  |
| produced\_by/ SamplingEvent/ sampling\_site/ sample\_location or place\_name | for DCAT, use whichever is there | geoLocations | Where was the sample acquired relative to the Earth (or another celestial body...). Some samples might be ‘non-geographic’: mineral specimen, synthetic material. geometry types allowed: {LineString, MultiLineString, point, multipoint, polygon, multipolygon}. Allows different spatial reference systems |
| produced\_by/ SamplingEvent/description |  | collectionMethod | alternateCollectionMethod | collectionMethod has controlled vocabulary, looks similar to SESAR |
| produced\_by/ SamplingEvent/result\_time | Date on which the sample was collected. | collectionTime | When was the sample collected. instant or interval. |
| produced\_by/label && produced\_by/ description && produced\_by/ authorized\_by | concatenate iSamples SamplingEvent label and description; include information in 'authorized\_by' | collectionMethod | Term to categorize the process through which the sample was acquired as an independent object. |
| registrant [role=registrant]/name/ | identification of the agent that registered the sample, with contact information. Role = 'registrant' | registrant/ registrantName | allocating agent. appears in Registration and description, but labels are slightly different. |
| registrant/affiliation |  | registrant/ affiliation |  |
| registrant/identifier |  | registrant/ nameIdentifier | name identifier has scheme in {ORCID, ISNI, VIAF, researcherID} |
| related\_resource [relationship= 'hasOtherMetadata'] |  | supplementalMetadata/ record |  |
| related\_resource/ relationship | nature of relationship between sample and resource that is the target of the relationship. See vocabulary in development: https://docs.google.com/spreadsheets/d/1yk3ZEWzEc1cXBOwb-foCtq3isaBBa95Rv8eA6TIyieM | relatedResourceIdentifier @relationType (relatedIdentifier/ relationType in Description schema) | controlled vocabulary |
| related\_resource/target | identifier for the target resource in the relationship. Should be a resolvable URI. | relatedResourceIdentifier (relatedIdentifier in Description schema) | Identifiers of related resources. Has relatedIdentifierType in {doi, handle, lsid, url, urn, igsn} |
| sample\_identifier | unique identifier for the physical object, ideally a URI that is physically attached to the material sample object, an IGSN or ARK | sampleNumber | The Identifier is a unique string that identifies a resource. At present, the only allowed value is an IGSN handle. |