

Contextual Data ClearingHouse Datastore and API specification

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Change History

Document Version	Date	Author	Notes
1.0.0	2019-02-28	Vishnukumar Balavenkataraman Kadhirvelu	Initial version.
1.0.1	2019-10-30	Vishnukumar Balavenkataraman Kadhirvelu	 Curation bulk insertion Retrieve curation by attribute pre or post name Multiple Assertion Evidence support with Identifier Upgraded to latest AAP services
1.0.2	2019-11-15	Vishnukumar Balavenkataraman Kadhirvelu	Validation implemented to avoid duplicate curation
1.0.3	2020-10-05	Vishnukumar Balavenkataraman Kadhirvelu	Removed datasubs email support
1.0.4	2020-10-28	Vishnukumar Balavenkataraman Kadhirvelu	 Added data type for covid19 Skip OLS validation for cofid19 data type
1.0.5	2021-02-03	Vishnukumar Balavenkataraman Kadhirvelu	Added filters provider name, record type, start and end time
1.0.6	2021-11-30	Vishnukumar Balavenkataraman Kadhirvelu	Made the curations post response ordered and consistent
1.0.7	2022-01-27	Vishnukumar Balavenkataraman Kadhirvelu	Changed application log format
1.0.8	2022-02-14	Vikas Gupta	 Added record Id validation for adding and reading the Curations. Introduced 'study' as



				a new recordType.
1.0.9	2022-05-26	Vishnukumar Balavenkataraman Kadhirvelu	•	Removed totalRecords field from the readAPI
1.0.10	2022-06-28	Vishnukumar Balavenkataraman Kadhirvelu	•	Update Life science login in the document



Introduction

This document describes the datastore and Application Programming Interface (API) specification for the Contextual Data ClearingHouse (CDCH), the purpose of which is to enable extension, correction and improvement of publicly available annotations on sample and sequence records available in Elixir archive data resources. The CDCH data store and APIs aim to provide a seamless method of exchange for curated contextual data available in external resources and community curation efforts, with ELIXIR data resources.

Figure 1 outlines the flow of contextual data into the CDCH data store. The data store is a MongoDB database accessed through read and write APIs managed by a load balanced VM architecture. The data store captures contextual data, associated metadata and provenance information, with incoming blocks of curation data separated into individual rows of curated contextual data attribute pairs.

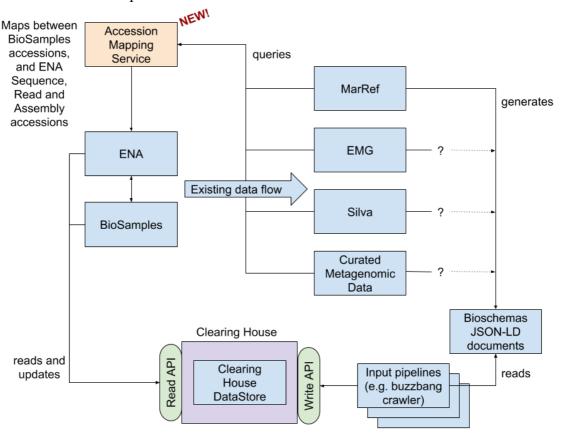


Figure 1. Contextual data flow surrounding Clearing House Data Store.



Authentication

The CDCH is an authenticated service in order to ensure contextual data provenance and authenticity.

Users/services wanting to supply contextual data to the CDCH need to first register for a Life Science ID here: https://signup.aai.lifescience-ri.eu/fed/registrar/?vo=lifescience

Alternatively, users can directly create the AAP account here: https://aai.ebi.ac.uk/registerUser

Once you have an account you will need to obtain an authentication token in order to interact with the CDCH APIs. To authenticate you first need to obtain a bearer authentication token, this is obtained by using the link https://api.aai.ebi.ac.uk/sso in the browser and supplying the credentials from when you registered for an account.

Alternatively, you can obtain a bearer authentication token by supplying your AAP username and password programmatically, for example:

curl -u <your aap username>:<your aap password> https://api.aai.ebi.ac.uk/auth

The response will provide a bearer token, for example:

eyJhbGciOiWerFg78ghY.eyJpc3MiOiJodHRwhdsL3RzaS5lYmkuYWMudWsiLCJleHAiOjE1MDc4MjIxNzEsImp0aSI6Il NWUndCYWlubTA1MFIEZHJaWFRMbWciLCJpYXQiOjE1MDc4MTg1NzEsInN1YiI6InVzci0wZmRhM2YzZS0wM2I1LTQzOTgtOGRjOS02ZmU4MWVkMzNhOTciLCJlbWFpbCl6Imthcm9seUBlYmkuYWMudWsiLCJuaWNrbmFtZSI6ImthcmVsIiwibmFtZSI6Ikthcm9seSBFcmRvcyIsImRvbWFpbnMiOlsiYWFwLXVzZXJzLWRvbWFpbiJdfQ.MnLeqmPdxGMy7ln3mlMFqhdNVDrf0uvilbe2pqngper56sjUYUOMnzvCK6ht2Q65P25VdJAA_nSOQJ03ZEqnp2ZB0urGpCY_sK0JV834ZSe1atLKww7wa2Ntq5EJakUfxrma9lHLTylGxJzYc3ej1s8pTE5Jj6tprvcV5s3eNEmYFUJL9RwhKmDA9-5E7TfOVYvEQSMw7lqXMiVSSQNU10dfalp-

PYIqer9mTR2MPIMAaA2wdr7jKVDXzI7zKlprIRLVyJAiEPIeWzNYN8FC2RdigwqbcBt9UTTDrwDH5Op3fAJPrYWNpRD4-wV8mn5DWzd7cNm6dMqwm1C12WEg

NOTE: The token will be valid for 1 hour, after which you will need to request another token.

You need to supply this token as an Authorisation header in all of your write API requests. The format is "Authorization: Bearer <TOKEN>". There are examples of its usage in the examples section below.

The write API can be utilised to supply contextual data by any user with a valid Authentication, Authorisation and Profile service (AAP) account. Further information on AAP accounts can be found here https://aai.ebi.ac.uk/home. The EMBL-EBI AAP service is fully compatible with Life Science Authentication and Authorization Infrastructure (AAI; https://lifescience-ri.eu/ls-login.html) and accepts Life Science credentials for authentication.

The authenticated AAP account ID will be recorded in the CDCH datastore against your supplied data to verify authenticity and provenance of the provided information.

The read API does not require authentication.

The archive processing status write endpoint will be restricted to specific AAP accounts associated with each Elixir Archive or external data resource that is consuming the contextual data. To register for the ability to record processing status for your archive/resource in the CDCH please contact our helpdesk using https://www.ebi.ac.uk/ena/browser/support with the



subject "Contextual Data ClearingHouse archive authenticated access" which will add you to the AAP domain that authorises this functionality.

A test version of the CDCH is also available to enable users to develop against the available APIs and setup their workflows. The test version utilises a different authentication service. For the test version, users will need to register for a seperate Explore AAP account at https://explore.aai.ebi.ac.uk/registerUser

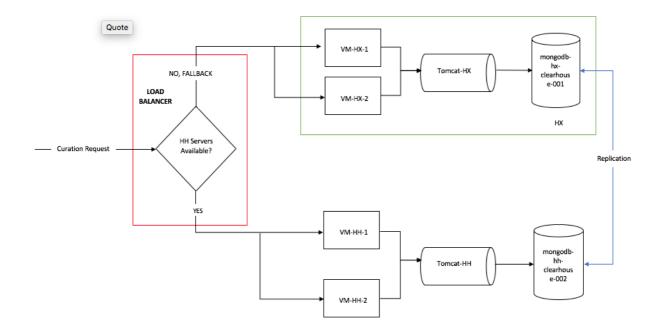
For the test version of the CDCH the bearer token is obtained from the explore API: curl -u <your_aap_username>:<your_aap_password> https://explore.api.aai.ebi.ac.uk/auth

Base URL

Production API URL: https://www.ebi.ac.uk/ena/clearinghouse/api

Test API URL: https://wwwdev.ebi.ac.uk/ena/clearinghouse/api (Note: For developer use/feature testing only. This instance is backed by a development database and data stored here may be removed without notice.)

The load balancer will process incoming API request routing according to this server VM design (approved by EMBL-EBI web production) the schema for this architecture is available here:



Write endpoints

Base URL: https://www.ebi.ac.uk/ena/clearinghouse/api

List of API endpoints for the following URI: base url / endpoint ? filter



Endpoint	Verb	Action	Filters	Success Status- code
/curations	POST	Creates new curation record(s)		201 Created
/curations/{id}	PATCH	Changes the status of the curation record		200 OK
/curations/{id}/suppress	PATCH	Suppresses the curation record		200 OK

Read endpoints

Base URL: https://www.ebi.ac.uk/ena/clearinghouse/api

List of API endpoints for the following URI: base url / endpoint ? filter

Endpoint	Verb	Action	Filters	Success Status- code
/curations	GET	Retrieve the curation records	offset limit dataTypeId entifier endTime startTime providerNa me recordType	200 OK
/curations/{id}	GET	Retrieve the curation by Curation ID or Record ID and attribute names (pre or post)	attributeNa me	200 OK

Use cases and required attribute and value fields

To add a new attribute and value pair:

Required: attribute post & value post

To modify the name of an existing attribute:

Required: attribute pre, attribute post, value pre & value post (same as value pre)

To replace an attribute/value pair with a new attribute/value pair:

Required: attribute_pre, attribute_post, value pre & value post

To remove an attribute:

Required: attribute pre & attribute delete (true)

To suppress a previously supplied curation

Required: UUID. Use write endpoint /curations/{uuid}/suppress



Status codes

General convention for status codes.

GET - Read:

- 200 (OK)
- 401 (Unauthorised for this action, please authenticate)
- 404 (Record Not Found, if ID not found or invalid).
- 400 (Bad Request, if ID is failed in pattern matching)

POST - Create:

- 201 (CREATED, if all the curations of the batch are successful)
- 207 (MULTI-STATUS, if the curation of the batch are partially successful)
- 401 (Unauthorised for this action, please authenticate)
- 403 (Forbidden, when non-archive users attempt to edit archive information)
- 404 (Record Not Found, if ID not found or invalid)
- 400 (Bad request, will include error response from error response messages below, including malformed JSON or missing mandatory information).

Example Commands

Key

110)
Example CURL request
Example success response
Example failure response

Create Curation Data

Field	Example	Туре	Requirement	Notes
recordType	'sample'/'sequ ence'/'study'	String. controlled list (sample sequenc e study)	Mandatory	Target type to determine which archives will be interested. API will throw error if not value from controlled list.
recordId	SAMEXXXX XXX/ERRXX XXX/PRJXX XXXXX	free text string (validated – Please Refer to Table–1 in Appendix–A)	Mandatory	archive record identifier. Initially will be free text string with no validation. Future versions of CDCH may utilise dependent archive accession



_				
				validation code/APIs.
dataType	covid19	String. controlled list (covid19)	Optional	Target type to determine the data type of the record. API will throw error if not value from controlled list.
dataIdentifier	COVDI26	free text string	Optional (Mandatory only if datatype is mentioned)	Data identifier for the given dataType.
attributePre	sex/location/br eed	free text string	Optional (at least one of attribute_pre or attribute_post is required)	Preexisting attribute to correct. See use cases section for appropriate usage.
valuePre	male/UK/Ram bouillet	free text string	Optional	Pre-existing value to curate. See use cases section for appropriate usage.
attributePost	sex/location/br eed	free text string	Optional (at least one of attribute_pre or attribute_post is required)	Replace current attribute with this one. See use cases section for appropriate usage.
valuePost	male/UK/Ram bouillet	free text string	Optional	Replace current value with this one. See use cases section for appropriate usage.
attributeDelete	true	boolean	Optional	Flag for deleting the attribute listed in attribute_pre. Must not specify attribute_post or value_post
assertionMethod	'automatic assertion'/'ma	Valid text or synonym that is	Mandatory	Whether curation was determined



	nual assertion'	ontology child of ECO_0000217 assertion method		manually or automatically taken from Evidence & Conclusion Ontology (ECO)
assertionEvidence s	AssertionEvid ence	List. See below.	Mandatory	Supporting evidence for the assertion taken from Evidence & Conclusion Ontology (ECO)
assertionSource		Valid URI	Optional (could make mandatory for some values of assertion_evid ence)	Valid URI link either to the supporting publication or external reference database that supports the stated assertion
assertionAddition alInfo		free text	Optional	Additional free text info to support assertion
providerName	MarRef/EMG/ Silva	free text	Mandatory	name of provider
providerUrl	https://mmp.sf b.uit.no/databa ses/marref/	Valid URI	Optional	URL of the provider

Creation

curl -X POST "https://www.ebi.ac.uk/ena/clearinghouse/api/curations" -H "accept: */*" - H "Authorization: Bearer

 $eyJhbGciOiJSUz11NiJ9.eyJpc3MiOiJodHRwczovL2V4cGxvcmUuYWFpLmViaS5hYy51ay9zcCIsImp0aSI6IIBBMFNMVWxoaHNzZVhzVHRabWF0OEEiLCIpYXQiOjE1NDg3NzQ3ODksInN1YiI6InVzci05OGY5NDlkMi1hNTY1LTQzOWQtYWVmMy01MjI3NDNlN2VIZjkiLCJlbWFpbC16InZpc2hidGVjaEBnbWFpbC5jb20iLCJuaWNrbmFtZSI6InZpc2hidGVjaEBnbWFpbC5jb20iLCJuYW1IIjoidmlzaG51a3VtYXIiLCJkb21haW5zIjpbXSwiZXhwIjoxNTQ4Nzc4Mzg5fQ.ONF2xH42n3_5EIILfPUMAJmuu-0gehAyWQF1Z8lgatA025yM6xAORGb2QK9ZZ6IaIeESiwvk0tt684fVrNm_Ju1y-F2-$

 $9 \\ YjS3DxPfMYKNFk4Y4RPnVVUUHjYAFVia9v2eR_4wWxVGx6Y109vzCkzSgQgkYlvTQ3vn0XBiNC5tNEB-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuG-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHug-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHug-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHug-evlkQzsl_yZsR396qe7LoUFKVF8crk2jDi6gIjoDJw8-1VlzaeFWuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd20MbFtwsHuy1SicP5dBz2hIOpf0uhd2$

6 QwNREN54 mypDBMjOPEKxRu8E0 nDh4 mVmqPleiay1 uzD0 iMB5 uiIk0BHlPpfk1ZXkLrVmKTQOhynO9W83 kwA"-Hu20 hypDBMjOPEKxRu8E0 nDh4 mVmqPleiay1 uzD0 iMB5 uiIk0BHlPpfk1ZXkLrVmKTQOhynO9W83 uiIk0BHlPpfk1ZXkLrVmKTQOhynO9W84 uiIk0BHlPpfk1ZXkLrVmKTQOhynO9W84 uiIk0BHlPpfk1ZXkLrVmKTQOhynO9W84 uiIk0BHl

"Content-Type: application/json" -d "{ \"curations\": [{ \"assertionAdditionalInfo\":

\"Curator spotted error during project review\", \"assertionEvidences\": [{\"label\":

\"inference based on individual clinical experience used in manual assertion\"}], \"assertionSource\":

\"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391\", \"attributePost\":

\"geographic location\", \"attributePre\": \"isolation source\", \"providerName\":

\"MarRef\", \"providerUrl\":



```
\"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391\", \"recordId\":
\"SAMN02469391\", \"recordType\": \"sample\", \"attributeDelete\": \"true\"}]}"
Status: 201 CREATED
      "timestamp": "2019-01-29T16:18:05.423+0000",
       "curationIds": [
             "d7b6eed1-945e-48be-b7ec-66375813ef31"
       "errors": []
Status: 400 BAD REQUEST
       "timestamp": "2019-01-29T16:21:31.586+0000",
       "curationIds": [
             "ERR-10b60c4a-9469-443f-9179-86bc075078f7"
      "errors": [{
             "errorId": "ERR-10b60c4a-9469-443f-9179-86bc075078f7",
             "message": "recordType must not be null for the curation record: 1"
      }]
Status: 400 BAD REQUEST
       "timestamp": "2021-11-23T13:05:35.098+0000",
       "curationIds": ["ERR-cafe3d70-2498-4103-bde4-f40f94daaaa9"],
       "errors": [{
             "errorId": "ERR-cafe3d70-2498-4103-bde4-f40f94daaaa9",
             "recordId": "ERR00001",
             "message": "System Error"
      }]
Status: 400 BAD REQUEST
  "timestamp": "2022-02-14T11:04:06.153+0000",
  "curationIds": [
    "ERR-3bd47252-042c-4a34-abe8-cb428ca0c1a4"],
       "errorId": "ERR-3bd47252-042c-4a34-abe8-cb428ca0c1a4",
       "message": "curations[0] For RecordType 'sequence', supplied Record Id 'ERR0001'
format is not valid for the curation record: 1"
    }]
```



```
curl -X POST "https://www.ebi.ac.uk/ena/clearinghouse/api/curations" -H "accept: */*" -H
"Authorization: Bearer
eyJhbGciOiJSUzI1NiJ9.eyJpc3MiOiJodHRwczovL2V4cGxvcmUuYWFpLmViaS5hYy51ay9zcCIsImp0aSI6IjVWV1A2VWltnXJRNI
BDMFVxbGk3X1EiLCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzei03MjkxOTMzOC01NjUyLTRhNGEtOGQxOS02NWRmZTQ4NzEiLCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzei03MjkxOTMzOC01NjUyLTRhNGEtOGQxOS02NWRmZTQ4NzEiLCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzei03MjkxOTMzOC01NjUyLTRhNGEtOGQxOS02NWRmZTQ4NzEilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzei03MjkxOTMzOC01NjUyLTRhNGEtOGQxOS02NWRmZTQ4NzEilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzei03MjkxOTMzOC01NjUyLTRhNGEtOGQxOS02NWRmZTQ4NzEilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzei03MjkxOTMzOC01NjUyLTRhNGEtOGQxOS02NWRmZTQ4NzEilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzei03MjkxOTMzOC01NjUyLTRhNGEtOGQxOS02NWRmZTQ4NzEilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOjE1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOje1Njk0OTIwNjlsInN1Yil6InVzeilCJpYXQiOje1Njk0OTIwNjlsInVxeilClpYXQiOje1Njk0OTIwNjlsInVxeilClpYXQiOje1Njk0OTIwNjlsInVxeilClpYXQiOje1Njk0OTiwNjlsInVxeilClpYXQiOje1Njk0OTiwNjlsInVxeilClpYXQiOje1Njk0OTiwNjlsInVxeilClpYXQiOje1Njk0OTiwNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittinNittin
ExYmMiLCJlbWFpbCI6ImthZGhpcnZlbHVAZWJpLmFjLnVrliwibmlja25hbWUiOil2M2QxMDY1NGNlZDBlNmIyMWQ3NDk4Mj
QzYTM0NjhlMzE5MDZlMDRkIiwibmFtZSI6IlZpc2hudWt1bWFyIEJhbGF2ZW5rYXRhcmFtYW4gS2FkaGlydmVsdSIsImRvbWFpb
nMiOltdLCJleHAiOjE1Njk0OTU2NjJ9.H6G8ghul64fTWkdtJaspuElFz9qjxdjr_JWhtfr454PyAg1B6O35x-A0ATHeBtwRAuk3apN_4lpLws2DQGpLyBcb6bOA_pIugR0BrHikHA7W_QZEtMNKPpPZzvix9eqjJahBkkuMTLefo157C3nzzzHZ_
UFdGT_lrqZLTWk53BI0I4uJTJcM5jB7OI2uy9NDgvgWXGLXLOlkXlDC8GdxPPG6mv-
hZ2JUveIGsk7RtPIVOYg7jedFoY2gXdfwiAQJeaTz7rpbOrrO1TScoY-\\
q_q_oKx5wHLbSWyZCCKJ6k1qMIonj0TWQ1ApD6OphSYKHFCfGghLI3zLhcsM3sfSKKg" -H "Content-Type:
application/json" -d "{ \"curations\": [ { \"assertionAdditionalInfo\": \"Curator spotted error
during project review\", \"assertionEvidences\": [{/"label/": \"inference based on individual
clinical experience used in manual assertion\"}], \"assertionMethod\": \"manual assertion\",
\"assertionSource\": \"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391\",
\"attributeDelete\": false, \"attributePost\": \"geographic location\", \"attributePre\":
\"geographic location\", \"providerName\": \"MarRef\", \"providerUrl\":
\"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391\", \"recordId\":
\"SAMN02469391\", \"recordType\": \"sample\", \"valuePost\": \"Norway: Lysefjord
fjord\", \"valuePre\": \"Norway: Trondheim fjord\" }, { \"assertionAdditionalInfo\":
\"Curator spotted error during project review\", \"assertionEvidences\": [{\"label\":
\"inference based on individual clinical experience used in manual assertion\"}],
\"assertionMethod\": \"manual assertion\", \"assertionSource\":
\"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469392\", \"attributeDelete\":
false, \"attributePost\": \"geographic location\", \"attributePre\": \"geographic location\",
\"providerName\": \"MarRef\", \"providerUrl\":
\"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391\", \"recordId\":
\"SAMN02469391\", \"recordType\": \"sample\", \"valuePost\": \"Norway: Lysefjord
fjord\", \"valuePre\": \"Norway: Trondheim fjord\" \ ] \}"
Status: 201 CREATED
             "timestamp": "2019-09-26T10:42:32.021+0000",
             "curationIds": [
                           "8f086c7a-b211-4006-b673-62e19510d77c",
                           "6c60076a-cc9a-4f37-a38f-013dfddee3e9"
             "errors": []
Status: 400 BAD REQUEST
             "timestamp": "2019-09-26T10:49:51.882+0000",
             "curationIds": [
                          "ERR-tufc3d70-1234-5678-hut3-d98f94dbbbb9",
                          "ERR-cafe3d70-2498-4103-bde4-f40f94daaaa9"
             "errors": [{
                          "errorId": "ERR-tufc3d70-1234-5678-hut3-d98f94dbbbb9",
                          "recordId": " SAMN02469391",
```

```
"message": " System Error "
       }, {
             "errorId": "ERR-cafe3d70-2498-4103-bde4-f40f94daaaa9",
             "recordId": "SAMN02469391",
             "message": "System Error"
      }]
Status: 207 MULTI-STATUS
       "timestamp": "2019-09-26T10:49:51.882+0000",
       "curationIds": [
             "1d75f552-e9e2-4f27-9e0d-62c0a88d6925",
             "ERR - cafe3d70 - 2498 - 4103 - bde4 - f40f94daaaa9"
      ],
      "errors": [{
              "errorId": "ERR-cafe3d70-2498-4103-bde4-f40f94daaaa9",
             "recordId": " SAMN02469391",
             "message": "System Error"
      }]
```

NOTE: The order of the response has been maintained based on the requested curation order irrespective of success or failure. Failures of the curation are responded with the Error code (E.g., ERR-cafe3d70-2498-4103-bde4-f40f94daaaa9) in the curationIds list and errors list of the json.



Update Curation Status (Only by archive users)

Field	Example	Туре	Requirement	Notes
Curation ID	623a1df1- eeeb-483a- 9938- abf24f2f5187	String	Mandatory	ID of the submitted curation as path variable. It can only be added by authenticated archive
archiveName	biosamples	Free text	Mandatory	can only be added by authenticated archive
archiveProcessing Status	processed/on_ hold/rejected	Controlled list	Mandatory	can only be added by authenticated archive
archiveProcessing Notes	Accepted but formatted to meet archive convention	free text	Optional	can only be added by authenticated archive

```
curl -X PATCH "https://www.ebi.ac.uk/ena/clearinghouse/api/curations/faf1032a-8166-44e1-b197-6d2e58a6dc14" -H "accept: */*" -H "Authorization: Bearer
```

eyJhbGciOiJSUzI1NiJ9.eyJpc3MiOiJodHRwczovL2V4cGxvcmUuYWFpLmViaS5hYy51ay9zcCIsImp0aSI6Ink2cGM1Y0hValhxaHI5VFpYeHZqdEEiLCJpYXQiOjE1NDg3NzkwMjksInN1YiI6InVzci04MGZlNzc0Ni03NTgwLTRiZDYtOWQ0MC01MDNjNWQ5ZTQ2M2UiLCJIbWFpbCI6ImthZGhpcnZlbHVAZWJpLmFjLnVrliwibmlja25hbWUiOiJ2aXNobnVrdW1hciIsIm5hbWUiOiJWaXNobnVrdW1hciBCYWxhdmVua2F0YXJhbWFuIEthZGhpcnZlbHUiLCJkb21haW5zIjpbInNlbGYuY2xlYXJpbmdob3VzZSIsInNlbGYuY2xlYXJpbmdob3VzZV9hcmNoaXZlcyJdLCJIeHAiOjE1NDg3ODI2Mjl9.lyTh_XTsjf2UONMiIcoNYZdnc7RpN1RRpv1Lfj-32r5XGV8NBmD4643QH-VckxMXATU0rEq8rpjYdp6Hze2W9g_wEKT0Hnw0qiUqH54vZoRhuz8O1cpzcqbh-HFyUaQwmeqXGZBpM4i2kaH5vongDCXBVTdaV9OUKEDI5iffWtU06E-qxPz9wnoHackabWHFPtH_dN9yllgsIU62P12yV3IP_ZYPdI_DX8CNY0-yXWIHLe_6BV59ejt1KRHBi3HjGHCHjIdJhyFDYgHzdfucguPAQaUcMrmqnSP3FmhMeeMfYwPZpIICqrIxG9lg6EiDSE7aQZAcRcf2dQi3JD9hA"-H "Content-Type: application/json"-d "{ \"archiveName\": \"biosamples\", \"archiveProcessingStatus\":

```
Status: 200 OK

{
    "id": "faf1032a-8166-44e1-b197-6d2e58a6dc14",
    "message": "Curation Status added",
    "success": true,
    "timestamp": "2019-01-29T16:24:21.772+0000"
}

Status: 404 NOT FOUND
```

```
{
"id": "faf1032a-8166-44e1-b197-6d2e58a6dc141",
"message": "Record not found",
```

\"processed\"}"



```
"success": false,
"timestamp": "2019-01-29T16:25:30.743+0000"
}
```

Suppress Curation Status (Only by the curation data owner)

Field	Example	Туре	Requirement	Notes
Curation ID	623a1df1- eeeb-483a- 9938- abf24f2f5187	String	Mandatory	ID of the submitted curation to be suppressed as path variable

curl -X PATCH "https://www.ebi.ac.uk/ena/clearinghouse/api/curations/623a1df1-eeeb-483a-9938-abf24f2f5187/suppress" -H "accept: */*" -H "Authorization: Bearer eyJhbGciOiJSUzI1NiJ9.eyJpc3MiOiJodHRwczovL2V4cGxvcmUuYWFpLmViaS5hYy51ay9zcCIsImp0aSI6InVENkFGM3YtaUlCUW

 $eyJhbGciOiJSUzI1NiJ9.eyJpc3MiOiJodHRwczovL2V4cGxvcmUuYWFpLmViaS5hYy51ay9zcCIsImp0aSI6InVENkFGM3YtaUlCUWF0b3VoYlh4UVEiLCJpYXQiOjE1NDg3Nzg1OTEsInN1YiI6InVzci05OGY5NDlkMi1hNTY1LTQzOWQtYWVmMy01Mjl3NDNlN2VIZjkiLCJlbWFpbC16InZpc2hidGVjaEBnbWFpbC5jb20iLCJuaWNrbmFtZSI6InZpc2hidGVjaEBnbWFpbC5jb20iLCJuYW1lIjoidmlzaG51a3VtYXIiLCJkb21haW5zIjpbXSwiZXhwIjoxNTQ4NzgyMTkxfQ.SQYdSALTeCX2RvuNEECSDioF6v5eyMUBCbl_glMaSbmLariA1DbLEtZ6rJB9IPzL9O6xW8bg51Z2-EDyGeLdLFo0hHtEMCO1Wsa4Y6jzzPAaFastP5bG-$

 $FahX8xb5ilf3SYtGTs0uzJohUcW7Ti9PSreDdV5VaQ8nKlrjfTALvmhH-SQBJ9s6ekbz8Ie3LGMsYAklwpFrR316Ppb_L-_2m-gs0i-mY553Xv3bm8YX-dQCx11DjYx0cui2c2C9Y-$

7gqQIpNQas7Bq6WAShrDPOOgwO3yPBGbtb8KFdcXgIJ5se7FyT_WF0cKQk72vDeflM7ob5R3keN2IX7yyXP1RPA"

```
Status: 200 OK

{
   "id": "623a1df1-eeeb-483a-9938-abf24f2f5187",
   "message": "Suppressed the data",
   "success": true,
   "timestamp": "2019-01-29T16:28:08.763+0000"
}

Status: 404 NOT FOUND

{
   "id": "623a1df1-eeeb-483a-9938-abf24f2f51871",
   "message": "Record not found",
   "success": false,
   "timestamp": "2019-01-29T16:28:45.335+0000"
}
```



Retrieve all curation data

Field	Example	Туре	Requirement	Notes
offset	0	number	Optional	Number of records to be skipped
limit	10	number	Optional	Number of records to be limited
dataTypeIdentifie r	Covid19/COV ID26	string	Optional	Number of records to be fetched based on data type or data identifier
providerName	MarRef	string	Optional	Number of records to be fetched based on provider name
recordType	sequence	string. controlled list (sample sequenc e)	Optional	Number of records to be fetched based on the record type
startTime	2019-01- 29T14:20:44.1 09+0000	ISO Date	Optional	Number of records to be fetched based on the start time
endTime	2019-01- 29T14:20:44.1 09+0000	ISO Date	Optional	Number of records to be fetched based on the end time. If the startTime has not given, then the endTime becomes redundant.

```
curl -X GET "https://www.ebi.ac.uk/ena/clearinghouse/api/curations?limit=2&offset=0" -H "accept: */*"

Status: 200 OK {
    "curations": [{
```

```
"id": "faf1032a-8166-44e1-b197-6d2e58a6dc14",
              "recordType": "sample",
              "recordId": "SAMN02469391",
              "attributePre": "geographic location",
              "valuePre": "Norway: Trondheim fjord",
              "attributePost": "geographic location",
              "valuePost": "Norway: Lysefjord fjord",
              "attributeDelete": false,
              "assertionMethod": "manual assertion",
              "assertionEvidences": [{"identifier": "ECO:0006019",
"shortForm": "0006019", "label": "inference based on individual clinical experience used in
manual assertion"}],
              "assertionSource":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "assertionAdditionalInfo": "Curator spotted error during project review",
              "providerName": "MarRef",
              "providerUrl":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "submittedTimestamp": "2019-01-29T14:04:37.498+0000",
              "archiveProcessing": [{
                     "archiveName": "biosamples",
                     "archiveProcessingStatus": "processed",
                     "archiveProcessingNotes": "processed the curation",
                     "timestamp": "2019-01-29T16:24:21.633+0000"
              "updatedTimestamp": "2019-01-29T16:24:21.633+0000",
              "suppressed": false
       }, {
              "id": "36619ac9-88bb-435f-bece-40d09205e149",
              "recordType": "sample",
              "recordId": "SAMN02469391",
              "attributePre": "isolation source",
              "attributePost": "geographic location",
              "attributeDelete": true,
              "assertionMethod": "manual assertion",
              "assertionEvidences": [{"identifier":" ECO:0006019", "shortForm":"
ECO 0006019", "label": "inference based on individual clinical experience used in manual
assertion"}],
              "assertionSource":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "assertionAdditionalInfo": "Curator spotted error during project review",
              "providerName": "MarRef",
              "providerUrl":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "submittedTimestamp": "2019-01-29T14:20:44.109+0000",
              "updatedTimestamp": "2019-01-29T14:20:44.109+0000",
              "suppressed": false
       "totalAttributes": "2"
```



}		
[]		



Retrieve curation by Curation ID

Field	Example	Туре	Requirement	Notes
Curation ID	623a1df1- eeeb-483a- 9938- abf24f2f5187	String	Mandatory	ID of the submitted curation

```
curl -X GET "https://www.ebi.ac.uk/ena/clearinghouse/api/curations/faf1032a-8166-44e1-b197-6d2e58a6dc14" -H "accept: */*"
```

```
Status: 200 OK
       "curations": [{
              "id": "3051ca86-8584-4acb-8f49-c8cc75eeec4b",
              "recordType": "sample",
              "recordId": "SAMN02469391",
              "attributePre": "geographic location",
              "valuePre": "Norway: Trondheim fjord",
              "attributePost": "geographic location",
              "valuePost": "Norway: Lysefjord fjord",
              "attributeDelete": false,
              "assertionMethod": "manual assertion",
              "assertionEvidences": [{"identifier": "ECO:0006019",
"shortForm": "ECO 0006019", "label": "inference based on individual clinical experience
used in manual assertion"}],
              "assertionSource":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "assertionAdditionalInfo": "Curator spotted error during project review",
              "providerName": "MarRef",
              "providerUrl":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "archiveProcessing": [{
                             "archiveName": "biosamples",
                            "archiveProcessingStatus": "on hold",
                             "archiveProcessingNotes": "notes for biosamples",
                            "timestamp": "2019-02-15T13:23:41.414+0000"
                            "archiveName": "string",
                            "archiveProcessingStatus": "processed",
                            "archiveProcessingNotes": "string",
                             "timestamp": "2019-02-18T16:27:41.643+0000"
                            "archiveName": "biosamples",
```





Retrieve curation by Record ID

Field	Example	Туре	Requirement	Notes
Record ID	SAMN024693 91	String	Mandatory	Archive record identifier as path variable
attributeName	geographic location	String	Optional	Attribute Pre or Attribute Post of the submitted curation

curl -X GET

"https://www.ebi.ac.uk/ena/clearinghouse/api/curations/SAMN02469391?attributeName=g eographic%20location" -H "accept: */*"

```
Status: 200 OK
       "curations": [{
              "id": "3051ca86-8584-4acb-8f49-c8cc75eeec4b",
              "recordType": "sample",
              "recordId": "SAMN02469391",
              "attributePre": "geographic location",
              "valuePre": "Norway: Trondheim fjord",
              "attributePost": "geographic location",
              "valuePost": "Norway: Lysefjord fjord",
              "attributeDelete": false,
              "assertionMethod": "manual assertion",
              "assertionEvidences": [{"identifier": "ECO:0006019", "shortForm": "
ECO 0006019", "label": "inference based on individual clinical experience used in manual
assertion"}],
              "assertionSource":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "assertionAdditionalInfo": "Curator spotted error during project review",
              "providerName": "MarRef",
              "providerUrl":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "archiveProcessing": [{
                     "archiveName": "biosamples",
                     "archiveProcessingStatus": "on hold",
                     "archiveProcessingNotes": "notes for biosamples",
                     "timestamp": "2019-02-15T13:23:41.414+0000"
              }, {
                     "archiveName": "string",
                     "archiveProcessingStatus": "processed",
                     "archiveProcessingNotes": "string",
```



```
"timestamp": "2019-02-18T16:27:41.643+0000"
              }, {
                     "archiveName": "biosamples",
                     "archiveProcessingStatus": "processed",
                     "archiveProcessingNotes": "sample accepted",
                     "timestamp": "2019-02-22T14:29:59.175+0000"
              }],
              "submittedTimestamp": "2019-02-15T13:09:26.847+0000",
              "updatedTimestamp": "2019-02-22T14:36:12.065+0000",
              "suppressed": true
              "id": "0020f090-a081-4be7-ae51-0743a3a120f1",
              "recordType": "sample",
              "recordId": "SAMN02469391",
              "attributePre": "isolation source",
              "attributePost": "geographic location",
              "attributeDelete": true,
              "assertionMethod": "manual assertion",
              "assertionEvidences": [{"identifer":"ECO:0006019", "shortForm":"
ECO 0006019", "label": "inference based on individual clinical experience used in manual
assertion"}],
              "assertionSource":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "assertionAdditionalInfo": "Curator spotted error during project review",
              "providerName": "MarRef",
              "providerUrl":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "archiveProcessing": [{
                     "archiveName": "biosamples",
                     "archiveProcessingStatus": "processed",
                     "archiveProcessingNotes": "test notes for biosamples",
                     "timestamp": "2019-02-18T09:51:28.833+0000"
              }, {
                     "archiveName": "biosamples",
                     "archiveProcessingStatus": "processed",
                     "archiveProcessingNotes": "test notes for biosamples 1",
                     "timestamp": "2019-02-18T09:51:34.824+0000"
              }, {
                     "archiveName": "biosamples",
                     "archiveProcessingStatus": "processed",
                     "archiveProcessingNotes": "test notes for biosamples 2",
                     "timestamp": "2019-02-18T09:51:39.589+0000"
              }, {
                     "archiveName": "biosamples",
                     "archiveProcessingStatus": "processed",
                     "archiveProcessingNotes": "test notes for biosamples 3",
                     "timestamp": "2019-02-18T10:16:42.055+0000"
              "submittedTimestamp": "2019-02-18T09:50:13.485+0000",
```

```
"updatedTimestamp": "2019-02-18T10:16:42.055+0000",
              "suppressed": false
       }, {
              "id": "7f26c676-cb4a-496a-abb6-3449ace2a987",
              "recordType": "sample",
              "recordId": "SAMN02469391",
              "attributePre": "geographic location",
              "valuePre": "Norway: Trondheim fjord",
              "attributePost": "geographic location",
              "valuePost": "Norway: Lysefjord fjord",
              "attributeDelete": false,
              "assertionMethod": "manual assertion",
              "assertionEvidences": [{"identifier": "ECO:0006019", "shortForm": "
ECO 0006019", "label": "inference based on individual clinical experience used in manual
assertion"}],
              "assertionSource":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "assertionAdditionalInfo": "Curator spotted error during project review",
              "providerName": "MarRef",
              "providerUrl":
"https://mmp.sfb.uit.no/databases/marref/#/records/MMP02469391",
              "submittedTimestamp": "2019-02-22T14:02:20.691+0000",
              "updatedTimestamp": "2019-02-22T14:02:20.691+0000",
              "suppressed": false
       }],
       "totalAttributes": 3
Status: 404 NOT FOUND
 "success": false,
 "timestamp": "2019-01-29T16:31:46.467+0000",
 "errors": [
   "message": "Record Not Found"
Status: 400 BAD REQUEST
       "success": false,
       "timestamp": "2019-02-25T14:30:22.469+0000",
       "errors": [{
              "message": "Curation/Record ID is invalid."
       }]
```



Duplication Handling

Duplication of curation data during the creation has been handled based on the below scenarios.

- Each new curation record will be compared with the existing record available based on the recordId and provider name.
- If the existing record is available, then compare each value of the record with existing record except curation id, created timestamp and updated timestamp.
- If all the values are matching, then new curation record cannot be created, and the existing curation id will be returned in API.
- If some or none of the values are matching, then new curation record can be created.

Error Response messages

- 1. **Record Not found** If no records are found from the curations data store.
- 2. **Forbidden** If the user doesn't have permission to perform the actions. E.g. Only Archive users can change the status of the Curations data
- 3. **UnAuthorized** If the user is not authorized by the AAP. E.g. If the user token is invalid or expired
- 4. **Field name> must not be null -** If any of the mandatory fields are missed
- 5. **Curation ID is invalid** For updated operations (HTTP PATCH), if the Id provided does not match the valid curation ID pattern (UUID).
- 6. **Curation ID/Record ID is invalid** For read operation (HTTP GET), if the Id provided does not match the valid curation ID pattern or a supported Accession pattern.
- 7. No data identifier specified for <datatype> datatype If data type is given and data identifier is missing



Database fields

Curation record

Field	Example	Туре	Requirement	Notes
_id	dee11d4e- 63c6-4d90- 983c- 5c9f1e79e96c	System set uuid	System set	System set uuid. Set by MongoDB UUID() command.
recordType	'sample'/'sequ ence'	String. controlled list (sample sequenc e)	Mandatory	Target type to determine which archives will be interested. API will throw error if not value from controlled list.
recordId	SAMEXXXX XXX/ERRXX XXX	free text string	Mandatory	archive record identifier. Initially will be free text string with no validation. Future versions of CDCH may utilise dependent archive accession validation code/APIs.
dataType	covid19	String. controlled list (covid19)	Optional	Target type to determine the data type of the record. API will throw error if not value from controlled list.
dataIdentifier	COVDI26	free text string	Optional (Mandatory only if datatype is mentioned)	Data identifier for the given dataType.
attributePre	sex/location/br eed	free text string	Optional (at least one of	Preexisting attribute to



			I	
			attribute_pre or attribute_post is required)	correct. See use cases section for appropriate usage.
valuePre	male/UK/Ram bouillet	free text string	Optional	Pre-existing value to curate. See use cases section for appropriate usage.
attributePost	sex/location/br eed	free text string	Optional (at least one of attribute_pre or attribute_post is required)	Replace current attribute with this one. See use cases section for appropriate usage.
valuePost	male/UK/Ram bouillet	free text string	Optional	Replace current value with this one. See use cases section for appropriate usage.
attributeDelete	true	boolean	Optional	Flag for deleting the attribute listed in attribute_pre. Must not specify attribute_post or value_post
assertionMethod	'automatic assertion'/'ma nual assertion'	Valid text or synonym that is ontology child of ECO_0000217 assertion method	Mandatory	Whether curation was determined manually or automatically taken from Evidence & Conclusion Ontology (ECO)
assertionEvidence s	AssertionEvid ence	List. See below.	Mandatory	Supporting evidence for the assertion taken from Evidence & Conclusion Ontology (ECO)
assertionSource		Valid URI	Optional (could make mandatory for some values of	Valid URI link either to the supporting publication or external reference



			assertion_evid ence)	database that supports the stated assertion
assertionAddition alInfo		free text	Optional	Additional free text info to support assertion
aapAccount	<u>User</u>	DBRef	System captured from authorisation token	Record AAP Details of provider.
providerName	MarRef/EMG/ Silva	free text	Mandatory	name of provider
providerUrl	https://mmp.sf b.uit.no/databa ses/marref/	Valid URI	Optional	URL of the provider
submittedTimesta mp	2018-11- 30T09:15:15.3 53Z	ISODATE	System captured	Timestamp always saves in UTC datetime. Set first time record is created.
updatedTimestam p	2018-11- 30T09:15:15.3 53Z	ISODATE	System captured	Timestamp always saves in UTC datetime. Set every time record is updated.
suppressed	true/false	boolean	Optional	Curation data can be suppressed only by the record owner
archiveProcessing	ArchiveProces sing	List. See below.	Optional	can only be edited by authenticated archive

Assertion Evidence

Field	Example	Type	Requirement	Notes
identifier	ECO_0006019 Or ECO:0006019	Valid Identifier that is ontology child of ECO_0000000 evidence	Optional (at least identifier or label is required)	Supporting evidence for the assertion taken from Evidence & Conclusion Ontology



				(ECO). It will also update the according assertion text in the curation record
label	author statement from published clinical study	Valid text or synonym that is ontology child of ECO_00000000 evidence	Optional (at least identifier or label is required)	Supporting evidence for the assertion taken from Evidence & Conclusion Ontology (ECO). It will also update the according ECO Identifier in the curation record

NOTE: If both ECO Identifier and assertion text has been passed, then ECO Identifier takes the precedence and overwrite its assertion text accordingly

Archive Processing

Field	Example	Type	Requirement	Notes
archiveName	biosamples	Free text	Mandatory	can only be edited by authenticated archive
archiveProcessi ngStatus	processed/on_h old/rejected	Controlled list	Mandatory	can only be edited by authenticated archive
archiveProcessi ngNotes	Accepted but formatted to meet archive convention	free text	Optional	can only be edited by authenticated archive
timestamp	2018-11- 30T09:15:15.35 3Z	ISODATE	System captured	Timestamp always saves in UTC datetime. Set every time archive data are added.



User

Field	Example	Type	Requirement	Notes
_id	usr-c29baadb- 3d75-4b49- 8888- d42fea25732b	valid AAP account	System captured from authorisation token	record AAP ID of provider. Obtained from AAP, userReference field
userName	Joe Bloggs	valid AAP account	System captured from authorisation token	AAP name field. This field is restricted and will not be in public read API. Will only be available to approved authenticated archives. Subject to GDPR.
email	person@somepl ace.com	valid AAP account	System captured from authorisation token	AAP email field. This field is restricted and will not be in public read API. Will only be available to approved authenticated archives. Subject to GDPR.



Appendix - A

Table -1 RecordId Validation Patterns

RecordType	Pattern Identifier	Validation Pattern
Sequence	SEQUENCE_REGEX	([A-Z][0-9]{5,6}(\\.[0-9]+) ([A-Z]{2}[0-9]{5,6}(\\.[0-9]+)) ([a-zA-Z]{4}[0-9]{2}S[0-
Sequence	DIN DECEY	9]{6,8}(\\.[0-9]+)))
	RUN REGEX SAMPLE REGEX	([ESDR]RR[0-9]{6,}) ([EDSR]RS[0-9]{6,})
Sample	BIO SAMPLE REGEX	(SAME[A]?[0-9]{6,} SAM[ND][0-9]{8})
1	RUN REGEX	([ESDR]RR[0-9]{6,})
Study	PROJECT REGEX	(PRJ[A-Z]{2}[0-9]+)
	STUDY REGEX	([ESDR]RP[0-9]{6,})