Purpose:

This API documentation is intended to assist the user with understanding how the CHORUS Funder Dashboard Service delivers aggregated data and paths to actual articles, please see http://www.chorusaccess.org/services/dashboard-service/ for more information regarding the Agency Dashboard Service.

Basic Mechanism:

To use this document, you should be familiar with API concepts. All APIs return response as JSON by default. In case a response is need in XML the Content-Type of the request header needs to be set to either text/xml or application/xml.

This API will only work for the FunderID’s for those Funder Dashboards that were created.

Data Provenance is Crossref.

General: Default limit is 50

Funder Agency Dashboard APIs:

Four APIs were created to return dashboard data.
### Table

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET /agencies/:id/histories</td>
<td>Returns data of indicator history table</td>
</tr>
<tr>
<td>GET /agencies/:id/publishers</td>
<td>Returns data of publisher breakdown table</td>
</tr>
<tr>
<td>GET /agencies/:id/histories/yyyy/mm/dd</td>
<td>Returns works associated with numbers displayed in indicator history table</td>
</tr>
<tr>
<td>GET /agencies/:id/histories/current</td>
<td>Returns works associated with ALL numbers displayed in indicator history table</td>
</tr>
<tr>
<td>GET /agencies/:id/publishers/:memberId</td>
<td>Returns work records corresponding to numbers in publisher table</td>
</tr>
</tbody>
</table>

**Note** - If 'chorus_member' query parameter = true with no specific agency id, results will contain only publishers that are CHORUS members. However, of query parameter = false with a specific member id, results will be empty if the publisher is not a CHORUS member.

**Example: chorus_member parameter**

https://api.chorusaccess.org/v1.1/publishers/16/agencies/100000001?chorus_member=true

**API 1: For fetching the data of indicator history table**

**API Endpoint:** /agencies/:id/histories

**Method:** GET

**Parameters to be passed:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>:id(Required)</td>
<td>URL</td>
<td>Funder id of agency whose data is to be fetched</td>
</tr>
</tbody>
</table>

**Headers:**

In order to request data in XML format, following header needs to be set for the API call:

'Content-Type: text/xml'

OR

'Content-Type: application/xml' (JSON is returned by default)

**Response Codes:**

200 – Successful Request
404 – Requested agency not found in dashboard database
500 – Something went wrong with the server
Response:
- agency_id – ID of agency/funder whose data was requested
- agency_name – Name of Agency
- tallies – An array of object corresponding to all rows in indicator history table

Example cURL requests:
curl "https://api.chorusaccess.org/v1.1/agencies/100000001/histories"
In case data is needed as XML:
curl -H "Content-Type: text/xml" "https://api.chorusaccess.org/v1.1/agencies/100000001/histories"

Sample Response:
{
  "agency_id": "100000001",
  "agency_name": "National Science Foundation",
  "tallies": [
    {
      "date": "12/31/2016",
      "total_works": 97841,
      "publicly_accessible_yes": 19599,
      "publicly_accessible_unknown": 78272,
      "reuse_terms_available_yes": 37056,
      "reuse_terms_available_unknown": 60815,
      "archived_yes": 82192,
      "archived_unknown": 15679,
      "passed_overall_audit": 16571
    }
  ]
}

API 2: For fetching the data of publisher breakdown table
API Endpoint: /agencies/:id/publishers
Method: GET
Note(s): The parameters, headers, and response codes section for this API are the same as in API 1 above.

Response:
- agency_id – ID of agency/funder whose data was requested
- agency_name – Name of Agency
- publishers – An array of object corresponding to all rows in publisher table
Example cURL requests:
curl "https://api.chorusaccess.org/v1.1/agencies/100000001/publishers"
In case data is needed as XML:
curl -H "Content-Type: text/xml"
"https://api.chorusaccess.org/v1.1/agencies/100000001/publishers"

Sample Response:
{
"agency_id": "100000001",
"agency_name": "National Science Foundation",
"publishers": [
{
"publisher": "American Diabetes Association",
"total_works": 4,
"publicly_accessible_yes": 3,
"publicly_accessible_unknown": 1,
"reuse_terms_available_yes": 4,
"reuse_terms_available_unknown": 0,
"archived_yes": 4,
"archived_unknown": 0,
"passed_overall_audit": 3
}
}

API 3: For fetching the works associated with numbers displayed in indicator history table
API Endpoint: /agencies/:id/histories/:yyyy/:mm/:dd
Method: GET
Note(s): This API returns 50 records per request; setting limit query parameter to a higher value while making request can increase this limit. The headers and response codes section for this API are the same as in API 1 above.
Example: https://api.chorusaccess.org/v1.1/agencies/100000161/histories/2021/01/31

Parameters to be passed:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>:id (Required)</td>
<td>URL</td>
<td>Funder Id of agency whose data is to be fetched</td>
</tr>
<tr>
<td>:yyyy (Required)</td>
<td>URL</td>
<td>Year of date of which data is to be fetched</td>
</tr>
<tr>
<td>Parameter</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>---------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>:mm (Required)</td>
<td>URL</td>
<td>Month of date of which data is to be fetched</td>
</tr>
<tr>
<td>:dd (Required)</td>
<td>URL</td>
<td>Day of date of which data is to be fetched</td>
</tr>
<tr>
<td>category (Optional)</td>
<td>Query</td>
<td>This can be one of, publicly_accessible, archive, license and total_acceptable. Default value for this parameter is ‘all’.</td>
</tr>
<tr>
<td>subcategory (Optional)</td>
<td>Query</td>
<td>This can be one of 'yes' or 'unknown'. If only category is passed as query parameter with request, subcategory defaults to 'yes'</td>
</tr>
<tr>
<td>limit (Optional)</td>
<td>Query</td>
<td>Number of records to be returned per request/page. Defaults to 50</td>
</tr>
<tr>
<td>offset (Optional)</td>
<td>Query</td>
<td>Pagination offset. Default value is 0</td>
</tr>
<tr>
<td>If Modified Since (Optional)</td>
<td>Query</td>
<td>Records modified since a date</td>
</tr>
</tbody>
</table>

**Note:** exchanging (:yyyy/:mm/:dd) with “current” will yield ALL results up to the current date.

**Note:** Publicly Accessible on Publisher Site dates are only available for DOIs that have been verified by CHORUS as publicly accessible on the publisher site. Therefore, the subcategory must be used in the parameter to retrieve DOIs that have been verified as being publicly available on the publisher site.

**Response:**
- agency_id – ID of agency/funder whose data was requested
- agency_name – Name of Agency
- breakdown_for – Date whose data is requested
- category – category parameter passed with request
- subcategory – subcategory parameter that was passed with request
- items – Array of work records
- limit – Number of records requested
- offset – Result offset
- total_results – Total number records matching the request

**Example cURL requests:**
curl "https://api.chorusaccess.org/v1.1/agencies/100000161/histories/2015/2/23?category=archive&subcategory=yes&limit=100"
In case data is needed as XML:
curl -H "Content-Type: text/xml"
Sample Response:
{
  "agency_id": "100000161",
  "agency_name": "National Institute of Standards and Technology",
  "breakdown_for": "2015/2/23",
  "category": "archive",
  "subcategory": "yes",
  "items": [
    {
      "DOI": "10.1063/1.3554755",
      "URL": "http://dx.doi.org/10.1063/1.3554755",
      "publisher": "AIP Publishing",
      "authors": [
        {"author": "Zhu M.","affiliation": ""},
        {"author": "Soe B. D.","affiliation": ""},
        {"author": "McMichael R. D.","affiliation": ""},
        {"author": "Carey M. J.","affiliation": ""},
        {"author": "Maat S.","affiliation": ""},
        {"author": "Childress J. R.","affiliation": ""}],
      "title": "Enhanced magnetization drift velocity and current polarization in (CoFe)1−xGex alloys",
      "journal_name": "Applied Physics Letters",
      "last_audited_on": "8/5/2015",
      "publicly_accessible_on_publisher_site": null,
      "license_type": null,
      "licenseUrl": null,
      "orcid_profile": [{"ORCID": "http://orcid.org/0000-0002-1372-664X",
                        "id": "5e5c70fd454801e877e212ec",
                        "family": "McMichael",
                        "given": "Robert",
                        "source": "orcid",
                        "updatedAt": "2020-03-02"}],
      "updated": "6/23/2023",
      "added": "3/20/2020",
      "funders": ["NIST", "NSF"],
      "funderIDs": ["10.13039/100000161", "10.13039/100000001"],
      "published_print": "2/14/2011",
      "published_online": null,
      "reuse_license_start_date": null,
      "type": "journal-article",
      "grant_ids": null,
      "archived_status": "Yes",
      "datasets": null,
      "agency_portal_url": null,
      "auditSource": "CHORUS",
      "Funder Source": "Crossref"
    }
  ],
  "limit": 1,
  "offset": 0,
  "total_results": 61
}
API 4: For fetching work records corresponding to numbers in publisher table

API Endpoint: /agencies/:id/publishers/:memberId

Method: GET

Note(s): This API returns 50 records per request; setting limit query parameter to a higher value while making request can increase this limit. The headers and response codes section for this API are the same as in API 1 above.

Note: Publicly Accessible on Publisher Site dates are only available for DOIs that have been verified by CHORUS as publicly accessible on the publisher site. Therefore, the subcategory must be used in the parameter to retrieve DOIs that have been verified as being publicly available on the publisher site.

Parameters to be passed:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>:id (Required)</td>
<td>URL</td>
<td>Funder ID of agency whose data is to be fetched</td>
</tr>
<tr>
<td>:memberId (Required)</td>
<td>URL</td>
<td>Member id of publisher whose data is to be fetched</td>
</tr>
<tr>
<td>category (Optional)</td>
<td>Query</td>
<td>This can be one of, publicly_accessible, archive, license and total_acceptable. Default value for this parameter is 'all'.</td>
</tr>
<tr>
<td>subcategory (Optional)</td>
<td>Query</td>
<td>This can be one of 'yes' or 'unknown'. If only category is passed as query parameter with request, subcategory defaults to 'yes'</td>
</tr>
<tr>
<td>limit (Optional)</td>
<td>Query</td>
<td>Number of records to be returned per request/page. Defaults to 50</td>
</tr>
<tr>
<td>offset (Optional)</td>
<td>Query</td>
<td>Pagination offset. Default value is 0</td>
</tr>
</tbody>
</table>

Response:
- agency_id – ID of agency/funder whose data was requested
- agency_name – Name of Agency
- breakdown_for – Publisher whose data is requested
- category – category parameter passed with request
- subcategory – subcategory parameter that was passed with request
- items – Array of work records
- limit – Number of records requested
- offset – Result offset
- total_results – Total number records matching the request

**Example cURL requests:**
curl
"https://api.chorusaccess.org/v1.1/agencies/100000161/publishers/16?category=publicly_accessible&subcategory=yes"
In case data is needed as XML:
curl -H "Content-Type: text/xml"
"https://api.chorusaccess.org/v1.1/agencies/100000161/publishers/16?category=publicly_accessible&subcategory=yes"

**Sample Response:**
```
{
  "agency_id": "100000161",
  "agency_name": "National Institute of Standards and Technology",
  "breakdown_for": "American Physical Society (APS)",
  "category": "publicly_accessible",
  "subcategory": "yes",
  "items": [
    {
      "DOI": "10.1103/physrevlett.108.145305",
      "URL": "http://dx.doi.org/10.1103/physrevlett.108.145305",
      "publisher": "American Physical Society (APS)","authors":
      "title": "Measurements of Tan’s Contact in an Atomic Bose-Einstein Condensate",
      "journal_name": "Physical Review Letters",
      "last_audited_on": "10/29/2014",
      "publicly_accessible_on_publisher_site": "4/5/2012",
      "license_type": "AM",
      "licenseUrl": "http://link.aps.org/licenses/aps-default-accepted-manuscript-license",
      "agency_portal_url": ["http://par.nsf.gov/biblio/10003519"],
      "orcid_profile":
      [{"ORCID": "http://orcid.org/0000-0002-4800-5172",
        "id": "5e5c84c4454801e877e2774c",
        "family": "Wild","given": "Robert",
        "source": "orcid",
        "updatedAt": "2020-03-02"}],
      "member_id": "",
      "updated": "7/10/2023",
      "added": "3/20/2020",
      "published_print": null,
      "published_online": "4/5/2012",
      "reuse_license_start_date": "04/05/2013",
      "type": "journal-article",
      "archived_status": "Yes",
      "datasets": null,
      "grant_ids": null
    }
  ]
}
```
"funders": ["NIST","NSF","Office of Naval Research"],
"funderIDs": ["10.13039/100000161","10.13039/10000001","10.13039/10000006"],
"auditSource": "CHORUS",
"Funder Source": "Crossref"},

"limit": 50,
"offset": 0,
"total_results": 590} }

### Additional examples of “limit” parameter:

100 results -
https://api.chorusaccess.org/v1.1/agencies/100000001/publishers/16?chorus_member=true&limit=100

Next 100 results -
https://api.chorusaccess.org/v1.1/agencies/100000001/publishers/16?chorus_member=true&limit=100

OR

500 result -
https://api.chorusaccess.org/v1.1/agencies/100000001/publishers/16?chorus_member=true&limit=500

Next 500 results-
https://api.chorusaccess.org/v1.1/agencies/100000001/publishers/16?chorus_member=true&limit=500

### Examples of If Modified Since parameter to return only those records that have been modified since a particular date. Example

### API Change Log:

<table>
<thead>
<tr>
<th>Revisions Date</th>
<th>Change</th>
<th>Reason for change</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/20/2016</td>
<td>Added Data Provenance</td>
<td>Clarification</td>
</tr>
<tr>
<td>11/6/2016</td>
<td>Added additional parameters to API 3</td>
<td>To return results of data up to the current date, not limited to a particular date parameter</td>
</tr>
<tr>
<td>11/29/2016</td>
<td>• Changed and tags added to API 3</td>
<td>Clarification</td>
</tr>
<tr>
<td>Date</td>
<td>Change</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>5/2017</td>
<td>Added the following fields</td>
<td>Align metadata found in dashboards and reports.</td>
</tr>
<tr>
<td></td>
<td>• published_online</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• published_print</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• added</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• updated</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• agency portal URL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• grant ids</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• type</td>
<td></td>
</tr>
<tr>
<td>5/23/2019</td>
<td>Added chorus_member parameter</td>
<td>To return results of data for only chorus_members.</td>
</tr>
<tr>
<td>3/23/2023</td>
<td>Limits parameter expanded</td>
<td>Limits expanded so that more records can be returned.</td>
</tr>
<tr>
<td>7/26/2023</td>
<td>Added the following fields</td>
<td>Align metadata found in dashboards and reports.</td>
</tr>
<tr>
<td></td>
<td>• datasets</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• auditSource</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Funder Source</td>
<td></td>
</tr>
<tr>
<td>8/17/2023</td>
<td>Added “If Modified Since” parameter</td>
<td>To return records that have been modified since a date. Results will include “Updated”, Updated and Added dates.</td>
</tr>
</tbody>
</table>

**Change Notification Process:**

Changes and/or updates will be communicated by notifying the technical representative noted in the CHORUS participant account details.

**Issues/questions:**

If you find a bug in this documentation or would like to propose an improvement to the API, please send an email to (support@chorusaccess.org). If you have a suggestion how to fix it, include that as well.