FUNDING AGENCY DASHBOARD SERVICE API v1.1
21 August 2023

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.

API Endpoint	HTTP	Description

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

Parameter	Type	Description
:id(*Required*)	URL	Funder Id of agency whose data is to be fetched

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:

Parameter	Type	Description
:id (*Required*)	URL	Funder Id of agency whose data is to be fetched
:yyyy (*Required*)	URL	Year of date of which data is to be fetched

:mm (*Required*)	URL	Month of date of which data is to be fetched
:dd (*Required*)	URL	Day of date of which data is to be fetched
category (*Optional*)	Query	This can be one of, publicly_accessible, archive, license and total_acceptable. Default value for this parameter is 'all'.
subcategory (*Optional*)	Query	This can be one of 'yes' or 'unknown'. If only category is passed as query parameter with request, subcategory defaults to 'yes'
limit (*Optional*)	Query	Number of records to be returned per request/page. Defaults to 50
offset (*Optional*)	Query	Pagination offset. Default value is 0
If Modified Since (*Optional*)	Query	Records modified since a date

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"

CHORUS – Funding Agency Dashboard Service API v1.1

"https://api.chorusaccess.org/v1.1/agencies/100000161/histories/2015/2/23?category=archive&subcategory=yes&limit=100"

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:

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

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"

<u>Sample Response:</u>

```
{
"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":
[{"author": "Wild R. J.","affiliation": ""},{"author": "Makotyn
P.","affiliation": ""},{"author": "Pino J. M.","affiliation": ""},{"author": "Cornell
E. A.","affiliation": ""},{"author": "Jin D. S.","affiliation": ""}],
"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","10.13039/100000001","10.13039/100000006"],
"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
http://api.chorusaccess.org/agencies/100000001/histories/current?If-Modified-Since=2023/7/21.

API Change Log:

Revisions Date	Change	Reason for change
6/20/2016	Added Data Provenance	Clarification
11/6/2016	Added additional parameters to API 3	To return results of data up to the current date, not limited to a particular date parameter
11/29/2016	• Changed and tags added to API 3	Clarification

	- issue_date changed to DOI_Issued_date - publicly_accessible change to publicly_accessible_on_publisher_site - verified changed to "Last Audited On" - license changed to "Reuse License Start Date" - added: "License Type"	
5/2017	Added the following fields - published_online - published_print - added - updated - agency portal URL - grant ids - type	Align metadata found in dashboards and reports.
5/23/2019	Added chorus_member parameter	To return results of data for only chorus_members.
3/23/2023	Limits parameter expanded	Limits expanded so that more records can be returned
7/26/2023	Added the following fields - datasets - auditSource - Funder Source	Align metadata found in dashboards and reports.
8/17/2023	Added "If Modified Since" parameter	To return records that have been modified since a date. Results will include "Updated", Updated and Added dates.

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.