

## Nirmal Shah

---

**From:** Justin Chen <Justin.Chen@clarivate.com>  
**Sent:** 07 November 2022 21:22  
**To:** Gurleen Kaur1; Timothy Auger; Hope Harley  
**Cc:** Arghya Mitra; Arin Suryavanshi; Nirmal Shah; Priyanka Terala  
**Subject:** Re: Fail to get fli02 access token on sandbox  
**Attachments:** INN-Reach D2IR API Reference v2.3-release.pdf

Gurleen,

We could try creating a few transactions if you provide test patron on fli01 and fli02.

Attached please find the D2IR v2.3 API doc if you don't have it already, you can check out the "Initiating Transactions" section on page 42. We created two locals for each partners on sandbox so that our partners have better control on creating new requests for their development and testing.

Once you have contributed bibs and items from fli01 and fli02, you would be able to request items as lender and borrower between fli01 and fli02. You can visit <https://d2irm.iii.com>, which allows you to search and place requests on your items either from fli01 or fli02. A borrowing patron provided in the webPAC discovery service for placing a request will be verified by the borrowing site. Hence, it is why we checked outbound requests to your oauth endpoints earlier. If you provide test patrons, we could further test your verifypatron endpoints as well.

Thank you for the heads up on the new servers. However, I am not sure about impact against our configuration.

Do we need change our configuration so that we call verifypatron, getbibrecord, and circulation action endpoints such as itemshipped, itemreceived, etc. against a different server?

Thanks,  
Justin

---

**From:** Gurleen Kaur1 <Gurleen\_Kaur1@epam.com>  
**Date:** Monday, November 7, 2022 at 1:01 AM  
**To:** Justin Chen <Justin.Chen@clarivate.com>, Timothy Auger <TAuger@ebSCO.com>, Hope Harley <Hope.Harley@Clarivate.com>  
**Cc:** Arghya Mitra <Arghya\_Mitra@epam.com>, Arin Suryavanshi <Arin\_Suryavanshi@epam.com>, Nirmal Shah <Nirmal\_Shah@epam.com>, Priyanka Terala <Priyanka\_Terala@epam.com>  
**Subject:** RE: Fail to get fli02 access token on sandbox

Thanks Justin, glad to hear it worked.

May I request you (or your colleagues) to create few transactions and we can check it if those are visible and usable to us.

Also, just wanted to give you a heads up (maybe you are aware of it) these rancher environments of edge-inn-reach/mod-inn-reach are getting decommissioned and moving into new rancher space. It would be good to check the connectivity with the new rancher endpoints too.

Below are the endpoint details of the new rancher environments.

**UI:** <https://folio-dev-volaris-2nd-dikuvolaris.ci.folio.org/>  
**Okapi:** <https://folio-dev-volaris-2nd-okapi.ci.folio.org/>  
**Edge:** <https://folio-dev-volaris-2nd-edge.ci.folio.org/>  
**Sip2:** <https://folio-dev-volaris-2nd-sip2.ci.folio.org/>

Below are for the volaris1 in new rancher --

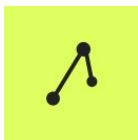
**UI:** <https://folio-dev-volaris-diku.ci.folio.org/>  
**Okapi:** <https://folio-dev-volaris-okapi.ci.folio.org/>  
**Edge:** <https://folio-dev-volaris-edge.ci.folio.org/>  
**Sip2:** <https://folio-dev-volaris-sip2.ci.folio.org/>

```
"id": "28b0080b-bde1-4a50-b9e0-12ba6e33a856",  
"password": "d517a7a4-6386-4920-834d-7f433e80a121"
```

## Gurleen Kaur

Lead Software Engineer  
epam anywhere

**Email** [Gurleen\\_Kaur1@epam.com](mailto:Gurleen_Kaur1@epam.com)  
**Microsoft Teams** [call on Teams](#)  
working remotely



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**From:** Justin Chen <Justin.Chen@clarivate.com>  
**Sent:** 04 November 2022 20:33  
**To:** Gurleen Kaur1 <Gurleen\_Kaur1@epam.com>; Timothy Auger <TAuger@ebSCO.com>; Hope Harley <Hope.Harley@Clarivate.com>  
**Subject:** Re: Fail to get fli02 access token on sandbox

Hi Gurleen,

Welcome and thank you for confirming the credential.

I just corrected the sandbox configuration for fli02 local and conducted a quick test by a cURL with successful response.

```
curl --location --request POST 'https://volaris-2nd-edge-inn-reach.ci.folio.org/innreach/v2/oauth2/token' \  
--header 'Content-Type: application/x-www-form-urlencoded' \  
--header 'Accept: application/json' \  
--header 'Authorization: Basic YThiNmZhMzctNjk1NS00ZGEyLTk3OTQtMjBhMmFmZTc4NWw5OjZjODBlNDU0LTewMmMtNGJIYS04MDA5LThkMzRmYjEzNjg3Nw==' \  
--data-urlencode 'grant_type=client_credentials' \  
--data-urlencode 'scope=innreach_tp'  
200 OK
```



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**From:** Timothy Auger <[TAuger@ebsco.com](mailto:TAuger@ebsco.com)>  
**Sent:** 04 November 2022 00:42  
**To:** Justin Chen <[Justin.Chen@clarivate.com](mailto:Justin.Chen@clarivate.com)>; Hope Harley <[Hope.Harley@Clarivate.com](mailto:Hope.Harley@Clarivate.com)>; Gurleen Kaur1 <[gurleen\\_kaur1@epam.com](mailto:gurleen_kaur1@epam.com)>  
**Subject:** Re: Fail to get fli02 access token on sandbox

Hi Justin,

Thank you. I've added Gurleen to this thread.

And thanks for the details below. Certainly helpful!

Best,  
Tim

---

**From:** Justin Chen <[Justin.Chen@clarivate.com](mailto:Justin.Chen@clarivate.com)>  
**Date:** Thursday, November 3, 2022 at 8:31 AM  
**To:** Timothy Auger <[TAuger@ebsco.com](mailto:TAuger@ebsco.com)>, Hope Harley <[Hope.Harley@Clarivate.com](mailto:Hope.Harley@Clarivate.com)>  
**Subject:** Re: Fail to get fli02 access token on sandbox

**CAUTION:** External E-mail

Tim,

It is fine to include Gurleen in the email thread instead of forwarding emails on behave of each other.

I was probably not being clear on the d2irm.iii.com configuration.

The d2irm has the same FOLIO configuration as in d2ir. I.e., same locations, local code and agencies code, etc. but with differ on the item types and patron types.

You can call the D2IR v2 endpoints as your earlier exercise by changing the central to d2irm.

However, you may also need to review/revise the API request where centralItemTypes and centralPatronTypes are the required request parameters .

A few cURL examples on fli01 and fli02 joining d2irm by the access token either generated from fli01 or fli02 credential.

- Obtain an access token for fli01 local  
`curl --location --request POST 'https://rssandbox-api.iii.com/auth/v1/oauth2/token' \`  
`--header 'Content-Type: application/x-www-form-urlencoded' \`  
`--header 'Accept: application/json' \`

```
--header 'Authorization: Basic
YjU1Zjl1NjgtZTAzYS00Y2MyLThmMzAtNWZiNjIhYTE0ZjVmOjBjM2FIN2YzLTRlNzAtNGQ1ZC1iOTRkLTVhNjYwN
TE2NjQ5NA=='\
--data-urlencode 'grant_type=client_credentials'\
--data-urlencode 'scope=innreach_tp'
200 OK
{
  "access_token": "2f6ede3ec289fc9decff4e686b5ca33f",
  "token_type": "Bearer",
  "expires_in": 599
}
```

You can base64 decode the Authorization value and see that the id and passcode value are the same as provided for d2ir configuration.

- GET D2IRM Item Types

```
curl --location --request GET 'https://rssandbox-api.iii.com/innreach/v2/contribution/itemtypes' \
--header 'X-From-Code: fli01' \
--header 'X-To-Code: d2irm' \
--header 'Accept: application/json' \
--header 'Authorization: Bearer 2f6ede3ec289fc9decff4e686b5ca33f'
200 OK
{
  "status": "ok",
  "reason": "success",
  "errors": [],
  "itemTypeList": [
    {
      "centralItemType": 200,
      "description": "IR Book"
    },
    {
      "centralItemType": 201,
      "description": "Digital Media"
    },
    ...
  ]
}
```

- GET D2IRM patron types

```
curl --location --request GET 'https://rssandbox-api.iii.com/innreach/v2/circ/patrontypes' \
--header 'Accept: application/json' \
--header 'X-From-Code: fli02' \
--header 'X-To-Code: d2irm' \
--header 'Authorization: Bearer 63951bc7051c5985d0cd0e5d13a4015c'
200 OK
{
  "status": "ok",
  "reason": "success",
  "errors": [],
  "patronTypeList": [
    {
      "centralPatronType": 200,
      "description": "IR undergrad"
    },
    {
      "centralPatronType": 201,
      "description": "IR grad"
    }
  ]
}
```

```

    },
    ...
  ]
}
- Fli01 Contribute items (ie., a bib was contributed 1st)
curl --location --request POST 'https://rssandbox-api.iii.com/innreach/v2/contribution/items/38675' \
--header 'Accept: application/json' \
--header 'Content-Type: application/json' \
--header 'X-From-Code: fli01' \
--header 'X-To-Code: d2irm' \
--header 'Authorization: Bearer 224b2a76700f239029bf11ec4a04be9c' \
--data-raw '{
  "itemInfo":[
    {
      "itemId":"2475459",
      "agencyCode":"fl1g1",
      "centralItemType":200,
      "locationKey":"scded",
      "itemCircStatus":"Available",
      "copyNumber":1
    },
    {
      "itemId":"3242345",
      "agencyCode":"fl1g2",
      "centralItemType":200,
      "locationKey":"scded",
      "itemCircStatus":"Available"
    }
  ]
}'
200 OK
{
  "status": "ok",
  "reason": "success",
  "bibInfo": null,
  "errors": []
}

```

Before we can test circulation, we need to resolve the following issue. This is configured to obtain access token for fli02 local.

```

curl --location --request POST 'https://volaris-2nd-edge-inn-reach.ci.folio.org/innreach/v2/oauth2/token' \
--header 'Content-Type: application/x-www-form-urlencoded' \
--header 'Accept: application/json' \
--header 'Authorization: Basic
NzJmYmY3NTQtNTg4OC00OTAzLWUyYzEtYjQ4MzZiM2YwMTA2Ojc0Y2ZkMWFjLWNlYjMtNDE1ZS1hZDdiLTQyZjMzND
hiNjgzOA==' \
--data-urlencode 'grant_type=client_credentials' \
--data-urlencode 'scope=innreach_tp'
401 Unauthorized
{
  "error": "invalid_token",
  "error_description": "Tenant mapping for local server key: 72fbf754-5888-4903-a2c1-b4836b3f0106 not found!"
}

```

The Authorization header is generated from the following credential provided earlier. Could you confirm if they are correct?

Id: 72fbf754-5888-4903-a2c1-b4836b3f0106  
Password: 74cfd1ac-ceb3-415e-ad7b-42f3348b6938

Thanks,  
Justin

---

**From:** Timothy Auger <[TAuger@ebSCO.com](mailto:TAuger@ebSCO.com)>  
**Date:** Tuesday, November 1, 2022 at 9:32 PM  
**To:** Justin Chen <[Justin.Chen@clarivate.com](mailto:Justin.Chen@clarivate.com)>, Hope Harley <[Hope.Harley@Clarivate.com](mailto:Hope.Harley@Clarivate.com)>  
**Subject:** FW: Fail to get fli02 access token on sandbox

Hi Justin and Hope,

Please see the below emails from Gurleen, the dev lead for Team Volaris who are now supporting this product. Not sure if I mentioned this previously but, Gurleen is the team lead for Volaris (agile teams get fun names). If okay with the both of you, I'd like to pull her into our conversations to create efficiency of communication. She does work for EPAM and located in India in case we need some real-time communication. Otherwise, we can go with email. Please let me know.

Tim

---

**From:** Gurleen Kaur1 <[Gurleen\\_Kaur1@epam.com](mailto:Gurleen_Kaur1@epam.com)>  
**Date:** Tuesday, November 1, 2022 at 2:23 AM  
**To:** Timothy Auger <[TAuger@ebSCO.com](mailto:TAuger@ebSCO.com)>  
**Cc:** Arin Suryavanshi <[arin\\_suryavanshi@epam.com](mailto:arin_suryavanshi@epam.com)>, Arghya Mitra <[arghya\\_mitra@epam.com](mailto:arghya_mitra@epam.com)>, Nirmal Shah <[nirmal\\_shah@epam.com](mailto:nirmal_shah@epam.com)>, Priyanka Terala <[priyanka\\_terala@epam.com](mailto:priyanka_terala@epam.com)>, Giorgi Ninua <[giorgi\\_ninua@epam.com](mailto:giorgi_ninua@epam.com)>, Steve Ellis <[SEllis@ebSCO.com](mailto:SEllis@ebSCO.com)>  
**Subject:** RE: Fail to get fli02 access token on sandbox

**CAUTION:** External E-mail

Hi Tim,

For the d2irm can you please request the d2ir team to share a document for sandbox configuration for D2IRM site to FOLIO which indicates some information as shown below and at our end then we can create central server configuration within inn-reach.

FYI – for the oauth endpoint issue they can also use volari1st rancher to create the transactions, if my previous email is not solving the issue then please let me know I can share the localServerKey and localServerSecret" for the same.

## Configuration

Two local servers are set up for each 3<sup>rd</sup> party, which allows testing circulation request sites.

### - Provided by Innovative

| Central Server   |  |                |                               |
|--|--|----------------|-------------------------------|
| Central Server Code: <a href="#">d2ir</a>  |  |                |                               |
| Local Servers  |  |                |                               |
| Local Code:  | <a href="#">fli01</a>                                | Local Code:    | <a href="#">fli02</a>         |
| Agency Code:   | <a href="#">fl1g1</a>                                | Agency Code:   | <a href="#">fl2g1</a>         |
| Agency Code:   | <a href="#">fl1g2</a>                                | Agency Code:   | <a href="#">fl2g2</a>         |
| API Key/Secret   |  | API Key/Secret |                               |
| Key:   | <a href="#">b55f2568-e03a-4cc2-8f30-5fb69aa14f5f</a> | Key:           | <a href="#">864f73de-585c</a> |
| Secret:  | <a href="#">0c3ae7f3-4e70-4d5d-b94d-5a6605166494</a> | Secret:        | <a href="#">0d8ca72d-28f3</a> |
| API Authentication   |  |                |                               |
| Using <a href="https://rssandbox-api.iii.com/auth/v1/oauth2/token">https://rssandbox-api.iii.com/auth/v1/oauth2/token</a> and the API key/secret for authenticating D2IR API requests. |  |                |                               |

## Gurleen Kaur

Lead Software Engineer

[epam anywhere](#)

Email [Gurleen\\_Kaur1@epam.com](mailto:Gurleen_Kaur1@epam.com)

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**From:** Gurleen Kaur1

**Sent:** 01 November 2022 14:36

**To:** Timothy Auger <[TAuger@ebSCO.com](mailto:TAuger@ebSCO.com)>

**Cc:** Arin Suryavanshi <[Arin\\_Suryavanshi@epam.com](mailto:Arin_Suryavanshi@epam.com)>; Arghya Mitra <[Arghya\\_Mitra@epam.com](mailto:Arghya_Mitra@epam.com)>; Nirmal Shah <[Nirmal\\_Shah@epam.com](mailto:Nirmal_Shah@epam.com)>; Priyanka Terala <[Priyanka\\_Terala@epam.com](mailto:Priyanka_Terala@epam.com)>; Giorgi Ninua <[Giorgi\\_Ninua@epam.com](mailto:Giorgi_Ninua@epam.com)>; Steve Ellis <[SEllis@ebSCO.com](mailto:SEllis@ebSCO.com)>

**Subject:** RE: Fail to get fli02 access token on sandbox

Hi Tim,

Can you please forward these credentials to the Clarivate team.

I have added another central server configuration for the local server code fli01 - <https://volaris-2nd.ci.folio.org/settings/innreach/central-server-configurations/7e68c7fa-671f-4a9e-aed0-2f709508fc2c/edit>  
Hoping that it will work.



Edit

Name \*

D2IR1

Description

Central server code \*

d2ir1

Local server code \*

fli01

Local agency \*

fl1g1

fl1g2

FOLIO libraries \*

Datalogisk Institut X

Online X

Borrowed item loan type \*

INN-Reach Sandbox

## ^ Server connection

Central server address \*

Central server key \*

**Gurleen Kaur**

Lead Software Engineer  
epam anywhere

Email [Gurleen\\_Kaur1@epam.com](mailto:Gurleen_Kaur1@epam.com)

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From: Timothy Auger <[TAuger@ebSCO.com](mailto:TAuger@ebSCO.com)>

Sent: 01 November 2022 00:52

**To:** Gurleen Kaur1 <[gurleen\\_kaur1@epam.com](mailto:gurleen_kaur1@epam.com)>  
**Subject:** Fwd: Fail to get fli02 access token on sandbox

Another follow up

Get [Outlook for iOS](#)

---

**From:** Justin Chen <[Justin.Chen@clarivate.com](mailto:Justin.Chen@clarivate.com)>  
**Sent:** Monday, October 31, 2022 11:12 AM  
**To:** Timothy Auger <[TAuger@ebSCO.com](mailto:TAuger@ebSCO.com)>; Hope Harley <[Hope.Harley@Clarivate.com](mailto:Hope.Harley@Clarivate.com)>; Brooks Travis <[BTravis@ebSCO.com](mailto:BTravis@ebSCO.com)>  
**Subject:** Re: Fail to get fli02 access token on sandbox

**CAUTION:** External E-mail

Tim,

Welcome and thank you for looking into the oauth endpoint issue.

While checking oauth endpoints on your end, it is possible to explore the new d2irm.iii.com. I.e., the site code is d2irm.

I.e., using the same fli01 and fli02 credential for calling D2IR v2 endpoints.

```
curl --location --request GET 'https://rssandbox-api.iii.com/innreach/v2/contribution/itemtypes' \  
--header 'X-From-Code: fli01' \  
--header 'X-To-Code: d2irm' \  
--header 'Accept: application/json' \  
--header 'Authorization: Bearer c06b681dae7ad230f7e5bfc63a97df48'
```

You may also consider uploading some records to d2irm for developing and testing on the sandbox env.

For circulation tests, we need to do that after the oauth endpoint issue is resolved given that two locals are setup for each partner.

This enables/allows a 3<sup>rd</sup> party partner to see the full circulation flow from either lender → borrower or borrower → lender in hoping to reduce communication/coordination overhead for partner's sandbox development and testing.

Thanks,  
Justin

---

**From:** Timothy Auger <[TAuger@ebSCO.com](mailto:TAuger@ebSCO.com)>  
**Date:** Monday, October 31, 2022 at 10:16 AM  
**To:** Hope Harley <[Hope.Harley@Clarivate.com](mailto:Hope.Harley@Clarivate.com)>, Brooks Travis <[BTravis@ebSCO.com](mailto:BTravis@ebSCO.com)>  
**Cc:** Justin Chen <[Justin.Chen@clarivate.com](mailto:Justin.Chen@clarivate.com)>  
**Subject:** Re: Fail to get fli02 access token on sandbox

Thanks Hope. I've asked the EBSCO Volaris team to review.

Tim

---

**From:** Hope Harley <[Hope.Harley@Clarivate.com](mailto:Hope.Harley@Clarivate.com)>  
**Date:** Monday, October 31, 2022 at 9:50 AM  
**To:** Brooks Travis <[BTravis@ebSCO.com](mailto:BTravis@ebSCO.com)>, Timothy Auger <[TAuger@ebSCO.com](mailto:TAuger@ebSCO.com)>  
**Cc:** Justin Chen <[Justin.Chen@clarivate.com](mailto:Justin.Chen@clarivate.com)>  
**Subject:** Fw: Fail to get fli02 access token on sandbox

**CAUTION:** External E-mail



```
"expires_in": 599
}
```

However, it fails to get an access token from 2nd FOLIO local, fli02, by the following credential.

*Client\_id: 72fbf754-5888-4903-a2c1-b4836b3f0106*

*Client\_password: 74cfd1ac-ceb3-415e-ad7b-42f3348b6938*

```
curl --location --request POST 'https://volaris-2nd-edge-inn-reach.ci.folio.org/innreach/v2/oauth2/token' \
--header 'Accept: application/json' \
--header 'Authorization: Basic
NzJmYmY3NTQtNTg4OC00OTAzLWEyYzEtYjQ4MzZiM2YwMTA2Ojc0Y2ZkMWFjLWNlYjMtNDE1ZS1hZDdiLTQyZjMzND
hiNjkzOA== ' \
--header 'Content-Type: application/x-www-form-urlencoded' \
--data-urlencode 'grant_type=client_credentials' \
--data-urlencode 'scope=innreach_tp'
401 Unauthorized
{
  "error": "invalid_token",
  "error_description": "Token authentication failed"
}
```

Thank you very much,  
Justin

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