



KBC Ireland

Environment Setup and API Access via Postman

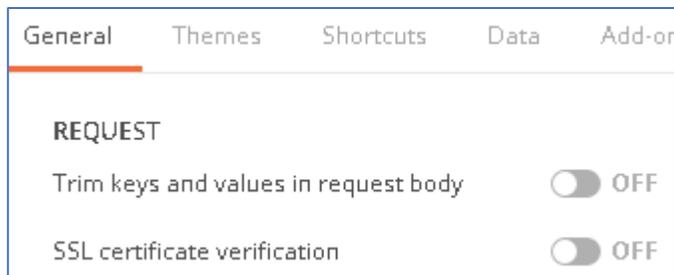
Environment Setup

Please install Postman and Notepad++ from the following directories:

- Postman Client Application <https://www.getpostman.com/products>
- Notepad++ <https://notepad-plus-plus.org/download/>

Postman Configuration

- In Postman General Settings, turn off SSL certificate verification:



Import the following API URL:

<https://kbc.openbankingapitesting.com:8585/SandboxCSRSigning-1.0/SWAGGER>

This should result in access to the following endpoint options:



Generating Keys and Certs

Generate a CSR using tools like OpenSSL. Please make sure that the CN in the CSR is set to the ClientId of your application that you registered on the developer portal.

Generate two CSRs – one each for transport cert and signing cert. Use a tool like Notepad ++ to open the CSR's and in the tool select the 'find and replace' with extended option checked - find `\n` and replace all instances with `\\n`.

Paste the resulting string in the JSON payload of the CSR signing API.

```

none form-data x-www-form-urlencoded raw binary JSON (application/json)
1 {
2   "transportCSR": "-----BEGIN CERTIFICATE REQUEST-----\nMIICoTCCAYkCAQAwXDELMAK
MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAtA2cwYeD\nZvJ8dShSV0bjomSFY
/9E3LBg4HwzacAXehyMp\nnyzB6s3e1T+8nN/ileS9qED+/vBAZJ6CLySTaQp2UoQsyXR0Ki
/9MMew9dSPY6FDcvOhpkWUg6zAINsJTPyTcXj1t7iP9ZTic\nvx0cgiv+jCBc4QIDAQABoA
/HWZuvtiVTqk\nCYFFIvIyBbutdG1FvbMhWad9y1ki0oX43dnrBuZ7odpC1jg8nY56PWmc5
/TmwUR8bNYCfmdFRPqyyEMKx1Qv\nvZ938Fe17jFvHDxqx9dWPFH4n2K9m57hfH5r62xK+
3   "signingCSR": "-----BEGIN CERTIFICATE REQUEST-----\nMIICqTCCAZECAQAwZDELMAKGA1U
Z25pbmcwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKaoIB\nAQDT13q18F20kZ+HiJL1bD4PF
/oSkje17xVSQxJ7Lk1V39dY7xAfm\nnaPrMF13pxmF49d5ZUvPFTLoLQ7ZQwx7GDonoHzSO2/Uh
/xO2IDjKgOw7WAsUh5gAqt1SFx2EUp\nsZ12bVwryqkR0TNLSVqBNA13AgHBAAGgADANBgkqhki
/F7W2MjQHZbtmGfcbm/RcPcVszwJDComBXt\nnpU4E/Qq1DFwHSwYtcco11Pm7IZ3Q2FuzU+ih5
/J2icFUGFek1oRLm+FDB2aeEqGr5b0nMStRsQ/GhX1\nnbK5IJYSLxAvzwWvZEg==\n-----END
4 }

```

This step requires credentials of an existing user to be passed via the authorization header. Switch from the body to the Authorization tab and add the credentials for your user.

Params Authorization Headers (2) Body Pre-request Script Tests

TYPE: Basic Auth

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Username: testClientId

Password: [masked]

Show Password

Preview Request

Heads up! These parameters hold sensitive data. To keep this data safe in a collaborative environment, we recommend using variables. [Learn more](#)

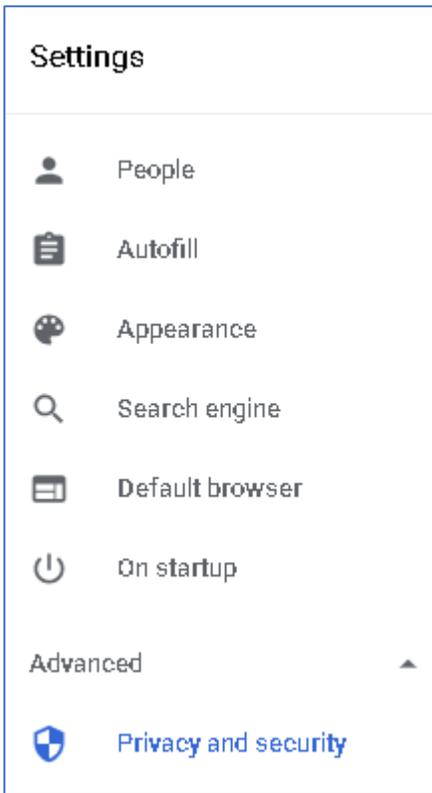
This will return the signed cert values in a secondary window below the main body.

Take the returned result and copy into their own new files, reverse the initial find and replace by using find and replace again to replace `\\n` with `\n`.

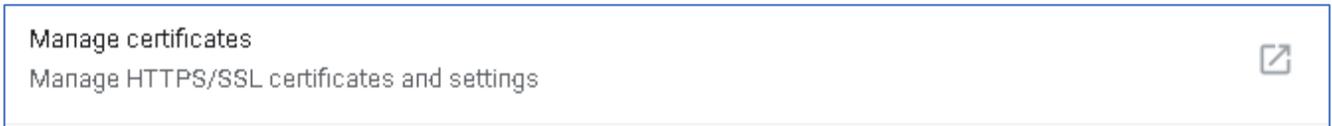
Save the resulting certs as `testClientId-signing.pem` for signingcert and `testClientId-transport.pem` for transport.

Importing a Keystore into Google Chrome

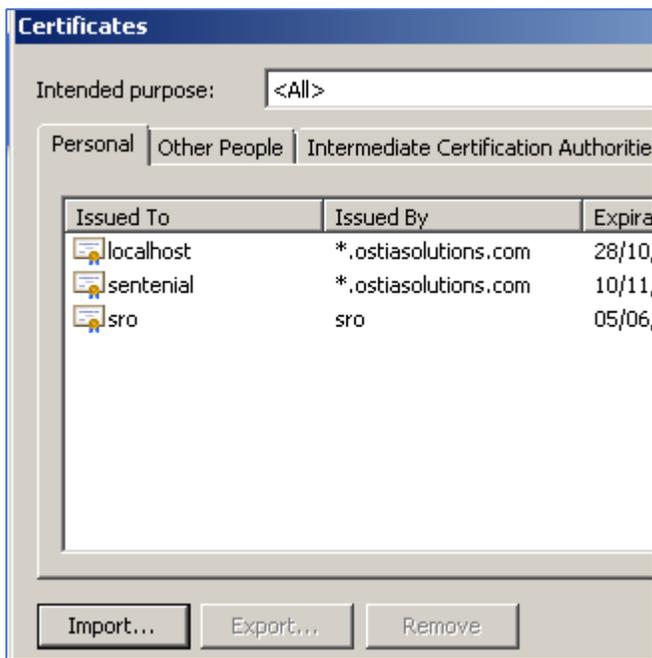
In Google Chrome under 'Advanced Settings' Select the 'Privacy and Security' Option:



In the Advanced setting window, select 'Manage certificates'



In the certificate window, ensure the personal tab is open, and select 'Import' to start the certificate import wizard.

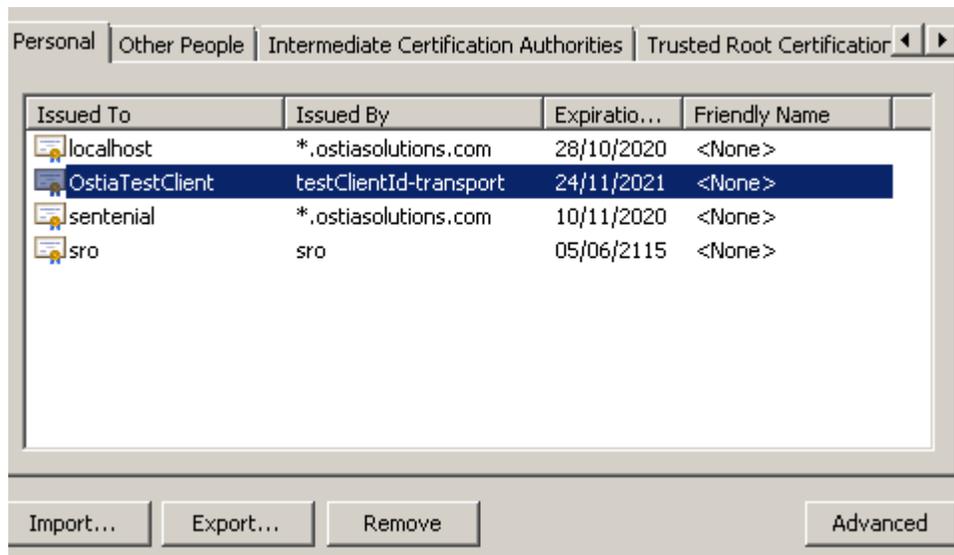


Walk through the wizard steps to import the certificate. If no .p12 file is shown when browsing for the certificate, ensure that 'All Files' is selected for the search filter:



Enter the password of 'password' and complete the steps to import the certificate.

You should now see the imported cert in the list of personal certificates:

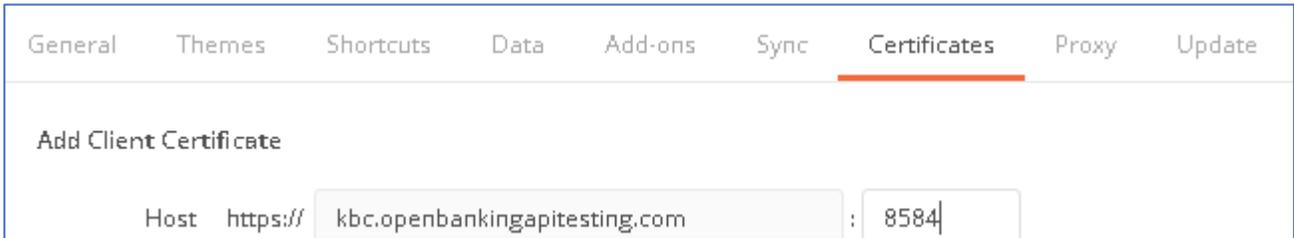


You can now select the 'Export' Option and export the .cer file to be used in postman, accepting the default options provided in the export wizard.

Import this new certificate into Postman:

Host	kbc.openbankingapitesting.com	Remove
CRT file	C:\Users\sro\Desktop\Update2\OstiaTestClient-transport.cer	
Key file	C:\Users\sro\Desktop\Update2\OstiaTestClient-transport.key	

A new Certificate/Key pair entry will need to be added in a similar fashion for each port that needs to be accessed. When creating a new entry, you may specify a specific port using the box provided beside the host name :



The screenshot shows the 'Certificates' tab in Postman. Under the 'Add Client Certificate' section, there are two input fields. The first field is labeled 'Host' and contains the text 'https:// kbc.openbankingapitesting.com'. The second field is labeled 'Port' and contains the text '8584'.

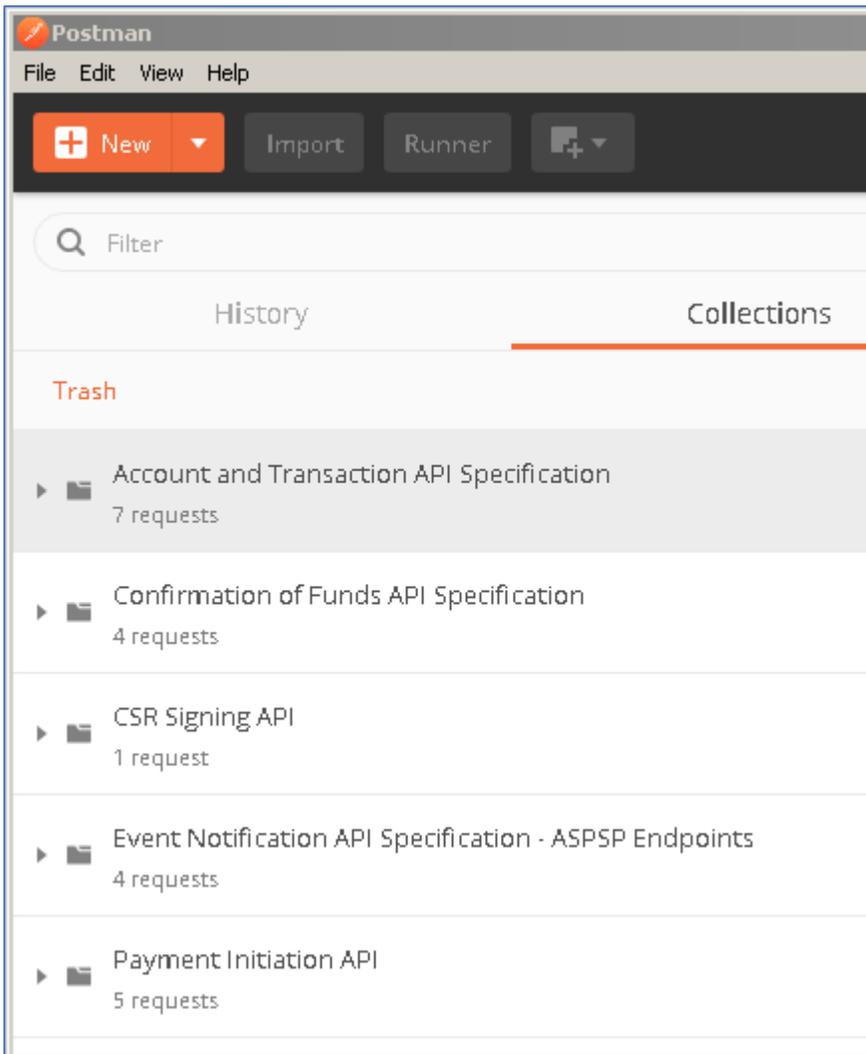
Sandbox API Access

You should now be able to import and access the following:

Import the following API URLs separately:

- <https://kbc.openbankingapitesting.com:8583/psd2-ie/open-banking/v1.0/aisp/SWAGGER>
- <https://kbc.openbankingapitesting.com:8583/psd2-ie/open-banking/v1.0/pisp/SWAGGER>
- <https://kbc.openbankingapitesting.com:8583/psd2-ie/open-banking/v1.0/cbpii/SWAGGER>
- <https://kbc.openbankingapitesting.com:8585/SandboxCSRSigning-1.0/SWAGGER>

There should now be 4 entries, each containing its own set of requests.



You can test access by issuing a GET request to return all records and receive a response in the request body window.

GET Get.Accounts

Get Accounts

GET https://kbc.openbankingapitest.com:8583/OpenBankingPSD2AccountsSandbox-3.1.0/open-banking/v3.1/aisp/accounts/AccountId

Params Authorization Headers (8) Body Pre-request Script Tests

KEY	VALUE
AccountId	{{AccountId}}
KEY	VALUE
Key	Value

Body Cookies (6) Headers (4) Test Results

Pretty Raw Preview JSON

```

1  {
2    "Code": "Request error",
3    "Id": "2019-03-02T16:59:50.567https-jsse-nio-8583-exec-3",
4    "Message": "Mismatched x-fapi-financial-id",
5    "Errors": [
6      {
7        "ErrorCode": "UK.OBIE.Header.Invalid",
8        "Message": "Invalid x-fapi-financial-id header {{x-fapi-financial-id}} provided on request, rejected",
9        "Path": "x-fapi-financial-id",
10       "Url": "http://www.ostiasolutions.com/openbanking/v3.1/UK.OBIE.Header.Invalid"
11     }
12   ]
13 }

```