

JNFX Public API Documentation DRAFT

AUTHENTICATION

Get Access Token: POST /oauth/token

Use this endpoint to directly request an access token by using the application's credentials (a Client ID and a Client Secret).

Request parameters:

- **grant-type**: required. Denotes the flow you are using. Use: **client_credentials**.
- **client_id**: required. Your application's **Client ID**.
- **client_secret**: required. Your application's **Client Secret**.
- **audience**: required. The unique identifier of the **target API** you want to access. Use: <https://public.jn-fx.com/stage/api/>.

Example of a client credentials exchange to get an access token for Public API Stage using CURL.

```
1 curl --request POST \
2   --url https://jnfx.eu.auth0.com/oauth/token \
3   --header 'content-type: application/json' \
4   --data '{\"client_id\": \"YourclientId\", \"client_secret\": \"YourClientSecret\", \"audience\": \"https://public.jn-fx.com/stage/api/\", \"grant_type\": \"client_credentials\"}'
```

Example of a client credentials exchange to get an access token for Public API Stage using C#.

```
1 var client = new RestClient("https://jnfx.eu.auth0.com/oauth/token");
2 var request = new RestRequest(Method.POST);
3 request.AddHeader("content-type", "application/json");
4 request.AddParameter("application/json", "{\"client_id\": \"YourclientId\", \"client_secret\": \"YourClientSecret\",", ParameterType.RequestBody);
5   \"audience\": \"https://public.jn-fx.com/stage/api/\", \"grant_type\": \"client_credentials\"}", ParameterType.RequestBody];
6 IRestResponse response = client.Execute(request);
```

You receive an **HTTP 200** response with a payload containing `access_token`, `token_type`, and `expires_in` values:

```
1 {
2   "access_token": "eyJz93a...k4laUw",
3   "token_type": "Bearer",
4   "expires_in": 86400
5 }
```

ENDPOINTS

Get Accounts: GET /accounts

This endpoint is used to retrieve a list of all the accounts associated with your institution.

Parameters:

- **Authorization**: string, header, required. Your API token, obtained from Auth0 Portal.
- **PageNumber**: integer, query, optional. The page number to control returned results into manageable sets. Default if not supplied: 1. Minimum value: 1, maximum value: 1000.

- **PageSize**: integer, query, optional. The page size to control returned results into manageable sets. Default if not supplied: 100. Minimum value: 1, maximum value: 1000.
- **Iban**: string, query, optional. To filter specific accounts by IBAN. Maximum length: 34.
- **Currencies**: string, query, optional. Must be a valid comma-delimited string of ISO currency codes.
- **Expand**: string, query, optional. Must be a valid comma-delimited string of related entities. Valid options include: Balances.

Response:

200 OK

- **Accounts**: array, required. A collection of accounts belonging to the institution associated with the API Token.
 - **Id**: guid, required.
 - **Name**: string, required.
 - **Iban**: string, required.
 - **Type**: string, required.
 - **Bank**: string, required.
 - **Currencies**: array, optional. An array of string ISO currency codes.
 - **Balances**: dictionary, optional. A key-value pair of string ISO currency codes and balance in number format.
 - **CreatedAt**: DateTimeOffset, required.

401 Unauthorized

- Invalid or expired API Token.

403 Forbidden

- You do not have permission to access this endpoint.

400 Bad request

- Invalid request.

Get Outgoing Payments: GET /payments/outgoing

This endpoint is used to retrieve a list of all the outgoing payments associated with your institution.

Parameters:

- **Authorization**: string, header, required. Your API token, obtained from Auth0 Portal.
- **PageNumber**: integer, query, optional. The page number to control returned results into manageable sets. Default if not supplied: 1. Minimum value: 1, maximum value: 1000.
- **PageSize**: integer, query, optional. The page size to control returned results into manageable sets. Default if not supplied: 100. Minimum value: 1, maximum value: 1000.

- **StartTime**: DateTimeOffset, query, required. Should be less than EndTime.
- **EndTime**: DateTimeOffset, query, required. Should be greater than StartTime.
- **Currencies**: string, query, optional. Must be a valid comma-delimited string of ISO currency codes.

Response:

200 OK

- **Payments**: array, required. A collection of payments belonging to the institution associated with the API Token.
 - **Id**: guid, required.
 - **Amount**: number, required.
 - **Currency**: string, required.
 - **PurposeOfRemittance**: string, required.
 - **Reference**: string, required.
 - **TransactionNumber**: string, required.
 - **AdditionalInformation**: string, optional.
 - **Beneficiary**: object, required.
 - **Type**: string, required.
 - **Individual**: object, required only when Type is Individual.
 - **FirstName**: string, required.
 - **MiddleName**: string, optional.
 - **LastName**: string, required.
 - **Gender**: string, required.
 - **DateOfBirth**: DateTimeOffset, optional.
 - **CountryOfBirth**: string, optional.
 - **Company**: object, required only when Type is Company.
 - **Name**: string, required.
 - **DateOfIncorporation**: DateTimeOffset, optional.
 - **CountryOfIncorporation**: string, optional.
 - **Address**: object, required.
 - **Country**: string, required.
 - **AddressLine1**: string, required.
 - **AddressLine2**: string, required.
 - **City**: string, required.
 - **Postcode**: string, required.
 - **Iban**: string, optional.
 - **Bban**: string, optional.
 - **BeneficiaryBank**: object, required.
 - **Name**: string, required.
 - **Country**: string, required.
 - **SwiftCode**: string, required.

- **BankCode**: string, optional.
- **BranchCode**: string, optional.
- **IntermediaryBank**: object, optional.
 - **Name**: string, required.
 - **Country**: string, required.
 - **SwiftCode**: string, required.
- **Remitter**: object, required.
 - **Type**: string, required.
 - **Individual**: object, required only when Type is Individual.
 - **FirstName**: string, required.
 - **MiddleName**: string, optional.
 - **LastName**: string, required.
 - **Gender**: string, required.
 - **DateOfBirth**: DateTimeOffset, optional.
 - **CountryOfBirth**: string, optional.
 - **Company**: object, required only when Type is Company.
 - **Name**: string, required.
 - **DateOfIncorporation**: DateTimeOffset, optional.
 - **CountryOfIncorporation**: string, optional.
 - **Address**: object, required.
 - **Country**: string, required.
 - **AddressLine1**: string, required.
 - **AddressLine2**: string, required.
 - **City**: string, required.
 - **Postcode**: string, required.
 - **RegistrationNumber**: string, required.
- **CreatedAt**: DateTimeOffset, required.

401 Unauthorized

- Invalid or expired API Token.

403 Forbidden

- You do not have permission to access this endpoint.

400 Bad request

- Invalid request.

Get Payments Batch: GET /payments/outgoing/batch/{id}

This endpoint is used to retrieve payments batch by id associated with your institution.

Parameters:

- **Authorization**: string, header, required. Your API token, obtained from Auth0 Portal.

- **id**: guid, path, required.
- **Currencies**: string, query, optional. Must be a valid comma-delimited string of ISO currency codes.

Response:

200 OK

- **PaymentsBatch**: object, required. A payments batch belonging to the institution associated with the API Token.
 - **Id**: guid, required.
 - **BatchNumber**: string, required.
 - **CreatedAt**: DateTimeOffset, required.
 - **Payments**: array, required. A collection of payments belonging to this payments batch.
 - **Id**: guid, required.
 - **Amount**: number, required.
 - **Currency**: string, required.
 - **PurposeOfRemittance**: string, required.
 - **Reference**: string, required.
 - **TransactionNumber**: string, required.
 - **AdditionalInformation**: string, optional.
 - **Beneficiary**: object, required.
 - **Type**: string, required.
 - **Individual**: object, required only when Type is Individual.
 - **FirstName**: string, required.
 - **MiddleName**: string, optional.
 - **LastName**: string, required.
 - **Gender**: string, required.
 - **DateOfBirth**: DateTimeOffset, optional.
 - **CountryOfBirth**: string, optional.
 - **Company**: object, required only when Type is Company.
 - **Name**: string, required.
 - **DateOfIncorporation**: DateTimeOffset, optional.
 - **CountryOfIncorporation**: string, optional.
 - **Address**: object, required.
 - **Country**: string, required.
 - **AddressLine1**: string, required.
 - **AddressLine2**: string, required.
 - **City**: string, required.
 - **Postcode**: string, required.
 - **Iban**: string, optional.
 - **Bban**: string, optional.
 - **BeneficiaryBank**: object, required.

- **Name**: string, required.
- **Country**: string, required.
- **SwiftCode**: string, required.
- **BankCode**: string, optional.
- **BranchCode**: string, optional.
- **IntermediaryBank**: object, optional.
 - **Name**: string, required.
 - **Country**: string, required.
 - **SwiftCode**: string, required.
- **Remitter**: object, required.
 - **Type**: string, required.
 - **Individual**: object, required only when Type is Individual.
 - **FirstName**: string, required.
 - **MiddleName**: string, optional.
 - **LastName**: string, required.
 - **Gender**: string, required.
 - **DateOfBirth**: DateTimeOffset, optional.
 - **CountryOfBirth**: string, optional.
 - **Company**: object, required only when Type is Company.
 - **Name**: string, required.
 - **DateOfIncorporation**: DateTimeOffset, optional.
 - **CountryOfIncorporation**: string, optional.
 - **Address**: object, required.
 - **Country**: string, required.
 - **AddressLine1**: string, required.
 - **AddressLine2**: string, required.
 - **City**: string, required.
 - **Postcode**: string, required.
 - **RegistrationNumber**: string, required.
- **CreatedAt**: DateTimeOffset, required.

401 Unauthorized

- Invalid or expired API Token.

403 Forbidden

- You do not have permission to access this endpoint.

404 Not Found

- No payments batch found with such id.

400 Bad request

- Invalid request.

Create Payments Batch: POST /batch

This endpoint is used to create payments batch.

Parameters:

- **Authorization:** string, header, required. Your API token, obtained from Auth0 Portal.

Request Payload (application/json):

- **Amount:** number, required. Instructed payment amount. Greater than zero.
- **Currency:** string, required. Three-letter ISO currency code for the outbound payment. Minimum length: 3, maximum length: 3.
- **PurposeOfRemittance:** string, required. Valid options include: FamilyMaintenance, Others, PaymentOfGoodsAndServices, PaymentOfServiceFee, Salary, Self, Transfer.
- **Reference:** string, required. Maximum length: 255.
- **AdditionalInformation:** string, optional. Maximum length: 255.
- **Beneficiary:** object, required. Information about the debtor of the transaction.
 - **Type:** string, required. Valid options include: Individual, Company.
 - **Individual:** object, required only when Type is Individual.
 - **FirstName:** string, required. Maximum length: 50.
 - **MiddleName:** string, optional. Maximum length: 50.
 - **LastName:** string, required. Maximum length: 50.
 - **Gender:** string, required. Valid options include: Male, Female.
 - **DateOfBirth:** DateTimeOffset, optional.
 - **CountryOfBirth:** string, optional.
 - **Company:** object, required only when Type is Company.
 - **Name:** string, required. Maximum length: 100.
 - **DateOfIncorporation:** DateTimeOffset, optional.
 - **CountryOfIncorporation:** string, optional.
 - **Address:** object, required.
 - **Country:** string, required.
 - **AddressLine1:** string, required. Maximum length: 255.
 - **AddressLine2:** string, required. Maximum length: 255.
 - **City:** string, required. Maximum length: 58.
 - **Postcode:** string, required. Maximum length: 10.
 - **Iban:** string, optional only when Bban is present. Iban or Bban must not be empty. Maximum length: 34.
 - **Bban:** string, optional only when Iban is present. Iban or Bban must not be empty. Maximum length: 30.
- **BeneficiaryBank:** object, required. Information about the debtor's bank of the transaction.
 - **Name:** string, required. Maximum length: 70.
 - **Country:** string, required.
 - **SwiftCode:** string, required. Maximum length: 11.

- **BankCode:** string, required only when Country is: United States, UnitedKingdom, Jersey, HongKong. Maximum length: 11.
 - **BranchCode:** string, optional. Maximum length: 15.
- **IntermediaryBank:** object, optional. Information about the intermediary's bank of the transaction.
 - **Name:** string, required. Maximum length: 70.
 - **Country:** string, required.
 - **SwiftCode:** string, required. Maximum length: 11.
- **Remitter:** object, required. Information about the creditor's bank of the transaction.
 - **Type:** string, required. Valid options include: Individual, Company.
 - **Individual:** object, required only when Type is Individual.
 - **FirstName:** string, required. Maximum length: 50.
 - **MiddleName:** string, optional. Maximum length: 50.
 - **LastName:** string, required. Maximum length: 50.
 - **Gender:** string, required. Valid options include: Male, Female.
 - **DateOfBirth:** DateTimeOffset, optional.
 - **CountryOfBirth:** string, optional.
 - **Company:** object, required only when Type is Company.
 - **Name:** string, required. Maximum length: 100.
 - **DateOfIncorporation:** DateTimeOffset, optional.
 - **CountryOfIncorporation:** string, optional.
 - **Address:** object, required.
 - **Country:** string, required.
 - **AddressLine1:** string, required. Maximum length: 255.
 - **AddressLine2:** string, required. Maximum length: 255.
 - **City:** string, required. Maximum length: 58.
 - **Postcode:** string, required. Maximum length: 10.
 - **RegistrationNumber:** string, required. Maximum length: 35.

Response:

201 Created

- **PaymentsBatch:** object, required. The newly created payments batch.
 - **Id:** guid, required.
 - **BatchNumber:** string, required.
 - **CreatedAt:** DateTimeOffset, required.
 - **Payments:** array, required. A collection of payments belonging to this payments batch.
 - **Id:** guid, required.
 - **Amount:** number, required.
 - **Currency:** string, required.
 - **PurposeOfRemittance:** string, required.
 - **Reference:** string, required.

- **TransactionNumber:** string, required.
- **AdditionalInformation:** string, optional.
- **Beneficiary:** object, required.
 - **Type:** string, required.
 - **Individual:** object, required only when Type is Individual.
 - **FirstName:** string, required.
 - **MiddleName:** string, optional.
 - **LastName:** string, required.
 - **Gender:** string, required.
 - **DateOfBirth:** DateTimeOffset, optional.
 - **CountryOfBirth:** string, optional.
 - **Company:** object, required only when Type is Company.
 - **Name:** string, required.
 - **DateOfIncorporation:** DateTimeOffset, optional.
 - **CountryOfIncorporation:** string, optional.
 - **Address:** object, required.
 - **Country:** string, required.
 - **AddressLine1:** string, required.
 - **AddressLine2:** string, required.
 - **City:** string, required.
 - **Postcode:** string, required.
 - **Iban:** string, optional.
 - **Bban:** string, optional.
- **BeneficiaryBank:** object, required.
 - **Name:** string, required.
 - **Country:** string, required.
 - **SwiftCode:** string, required.
 - **BankCode:** string, optional.
 - **BranchCode:** string, optional.
- **IntermediaryBank:** object, optional.
 - **Name:** string, required.
 - **Country:** string, required.
 - **SwiftCode:** string, required.
- **Remitter:** object, required.
 - **Type:** string, required.
 - **Individual:** object, required only when Type is Individual.
 - **FirstName:** string, required.
 - **MiddleName:** string, optional.
 - **LastName:** string, required.
 - **Gender:** string, required.
 - **DateOfBirth:** DateTimeOffset, optional.
 - **CountryOfBirth:** string, optional.

- **Company**: object, required only when Type is Company.
 - **Name**: string, required.
 - **DateOfIncorporation**: DateTimeOffset, optional.
 - **CountryOfIncorporation**: string, optional.
- **Address**: object, required.
 - **Country**: string, required.
 - **AddressLine1**: string, required.
 - **AddressLine2**: string, required.
 - **City**: string, required.
 - **Postcode**: string, required.
- **RegistrationNumber**: string, required.
- **CreatedAt**: DateTimeOffset, required.

401 Unauthorized

- Invalid or expired API Token.

403 Forbidden

- You do not have permission to access this endpoint.

404 Not Found

- No payments batch found with such id.

400 Bad request

- Invalid request.

Get Transactions: GET /transactions

This endpoint is used to retrieve transactions associated with your institution.

Parameters:

- **Authorization**: string, header, required. Your API token, obtained from Auth0 Portal.
- **PageNumber**: integer, query, optional. The page number to control returned results into manageable sets. Default if not supplied: 1. Minimum value: 1, maximum value: 1000.
- **PageSize**: integer, query, optional. The page size to control returned results into manageable sets. Default if not supplied: 100. Minimum value: 1, maximum value: 1000.
- **StartTime**: DateTimeOffset, query, required. Should be less than EndTime.
- **EndTime**: DateTimeOffset, query, required. Should be greater than StartTime.
- **AccountId**: guid, query, optional.
- **Currencies**: string, query, optional. Must be a valid comma-delimited string of ISO currency codes.

Response:

200 OK

- **Transactions**: array, required. A collection of transactions belonging to the institution associated with the API Token.
 - **Id**: string, required.
 - **EndToEndId**: string, optional.
 - **Reference**: string, optional.
 - **Amount**: number, required.
 - **Currency**: string, required.
 - **Type**: string, required. Possible values: debit or credit.
 - **Status**: string, optional.
 - **Beneficiary**: object, optional.
 - **Name**: string, optional.
 - **Iban**: string, optional.
 - **AccountNumber**: string, optional.
 - **Reference**: string, optional.
 - **SortCode**: string, optional.
 - **Remitter**: object, optional.
 - **Name**: string, optional.
 - **Iban**: string, optional.
 - **AccountNumber**: string, optional.
 - **Reference**: string, optional.
 - **SortCode**: string, optional.
 - **SettledAt**: DateTimeOffset, optional.
 - **CreatedAt**: DateTimeOffset, optional.

401 Unauthorized

- Invalid or expired API Token.

403 Forbidden

- You do not have permission to access this endpoint.

400 Bad request

- Invalid request.