

openapi: "3.0.0"

info:

version: 0.9.0

title: Common Payment API

description:

This specification defines a simple payment API for payment types used in Switzerland. The API is supposed to be used by customers who want to initiate a payment at their bank.

termsOfService: ''

contact:

email: api@sfti.ch

license:

name: Apache 2.0

url: 'http://www.apache.org/licenses/LICENSE-2.0.html'

servers:

- url: payment.sfti.ch

paths:

/payments:

get:

tags:

- All Payments

description: return the list of all initiated payments of all types

summary: get the list of all payments (all payment types)

parameters:

- in: query

name: entryReferenceFrom

schema:

type: string

description: number of items to skip

- in: query

name: limit

schema:

type: integer

description: number of items returned

- in: query

name: dateFrom

schema:

\$ref: '#/components/schemas/Date'

```
- in: query
  name: dateTo
  schema:
    $ref: '#/components/schemas/Date'
responses:
  '200':
    description: paginated list of all payments
    content:
      application/json:
        schema:
          type: object
          properties:
            paymentList:
              type: array
              items:
                $ref: '#/components/schemas/Payment'
            _links:
              $ref: '#/components/schemas/Links'
/payments/isr:
  get:
    tags:
      - ISR Payment
    description: get the list of isr payments
    summary: get the list of all ISR payments
    parameters:
      - in: query
        name: entryReferenceFrom
        schema:
          type: string
        description: number of items to skip
      - in: query
        name: limit
        schema:
          type: integer
        description: number of items returned
      - in: query
        name: dateFrom
```

```
    schema:
      $ref: '#/components/schemas/Date'
  - in: query
    name: dateTo
    schema:
      $ref: '#/components/schemas/Date'
responses:
  '200':
    description: paginated list of isr payments
    content:
      application/json:
        schema:
          type: object
          properties:
            paymentList:
              type: array
              items:
                $ref: '#/components/schemas/ISRPayment'
            _links:
              $ref: '#/components/schemas/Links'
post:
  tags:
    - ISR Payment
  summary: initiate a new ISR payment
  description: create a new ISR payment
  operationId: executeISRUsingPOST
  requestBody:
    description: details of payment to be added
    required: true
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/ISRPayment'
responses:
  '201':
    description: created
    headers:
```

```
location:
  schema:
    type: string
    format: uri
    description: link to the created resource
```

```
/payments/isr/{id}:
get:
  tags:
    - ISR Payment
  description: receive isr payment with corresponding ID id
  summary: get a specific ISR payment
  parameters:
    - name: id
      in: path
      description: ID of isr payment to be shown
      required: true
      schema:
        type: integer
        format: int64
  responses:
    '200':
      description: paymentresponse
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/ISRPayment'
put:
  tags:
    - ISR Payment
  description: modify isr payment with ID id
  summary: modify an ISR payment
  parameters:
    - name: id
      in: path
      description: ID of isr payment to modify
      required: true
```

```
    schema:
      type: integer
      format: int64
  responses:
    '200':
      description: Successful execution
delete:
  tags:
    - ISR Payment
  description: delete isr payment
  summary: delete an ISR payment
  parameters:
    - name: id
      in: path
      description: ID of pet to fetch
      required: true
      schema:
        type: integer
        format: int64
  responses:
    '200':
      description: isr payment has been deleted
    '201':
      description: isr payment is marked for deletion
    '404':
      description: isr payment does not exist

/payments/sic:
  get:
    tags:
      - SIC Payment
    description: get the list of all sic payments
    summary: get the list of all SIC payments
    parameters:
      - in: query
        name: entryReferenceFrom
        schema:
```

```
    type: string
  description: number of items to skip
- in: query
  name: limit
  schema:
    type: integer
  description: number of items returned
- in: query
  name: dateFrom
  schema:
    $ref: '#/components/schemas/Date'
- in: query
  name: dateTo
  schema:
    $ref: '#/components/schemas/Date'
responses:
  '200':
    description: payment response
    content:
      application/json:
        schema:
          type: object
          properties:
            paymentList:
              type: array
              items:
                $ref: '#/components/schemas/SICPayment'
            _links:
              $ref: '#/components/schemas/Links'
post:
  tags:
    - SIC Payment
  summary: initiate a new SIC payment
  description: Transfer money from the account (iban in path-name) using a SIC payment
  operationId: executeSICUsingPOST
  requestBody:
    description: details of payment to be added
```

```
    required: true
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/SICPayment'
  responses:
    '201':
      description: created
      headers:
        location:
          schema:
            type: string
            format: uri
            description: link to the created resource
/payments/sic/{id}:
  get:
    tags:
      - SIC Payment
    description: get sic payment with ID id
    summary: get a specific SIC payment
    parameters:
      - name: id
        in: path
        description: ID of sic payment to be shown
        required: true
        schema:
          type: integer
          format: int64
    responses:
      '200':
        description: paymentresponse
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/SICPayment'
  put:
    tags:
```

```
- SIC Payment
description: modify sic payment with ID id
summary: modify a SIC payment
parameters:
  - name: id
    in: path
    description: ID of isr payment to modify
    required: true
    schema:
      type: integer
      format: int64
responses:
  '200':
    description: Successful execution
delete:
tags:
  - SIC Payment
description: delete sic payment with ID id
summary: delete a SIC payment
parameters:
  - name: id
    in: path
    description: ID of pet to fetch
    required: true
    schema:
      type: integer
      format: int64
responses:
  '200':
    description: sic payment has been deleted
  '201':
    description: sic payment is marked for deletion
  '404':
    description: sic payment does not exist

/payments/sepa-credit-transfer:
get:
```



```
tags:
  - SEPA Payment
description: get the list of all sepa payments
summary: get the list of all SEPA credit transfers
parameters:
  - in: query
    name: entryReferenceFrom
    schema:
      type: string
    description: number of items to skip
  - in: query
    name: limit
    schema:
      type: integer
    description: number of items returned
  - in: query
    name: dateFrom
    schema:
      $ref: '#/components/schemas/Date'
  - in: query
    name: dateTo
    schema:
      $ref: '#/components/schemas/Date'
responses:
  '200':
    description: paymentresponse
    content:
      application/json:
        schema:
          type: object
          properties:
            paymentList:
              type: array
              items:
                $ref: '#/components/schemas/SEPAcreditTransfer'
            _links:
              $ref: '#/components/schemas/Links'
```

```
post:
  tags:
    - SEPA Payment
  summary: initiate a new SEPA credit transfer
  description: initiate a new SEPA credit transfer
  operationId: executeSCT
  parameters:
    - in: path
      name: iban
      description: debtor account
      required: true
      schema:
        type: string
  requestBody:
    description: details of payment to be added
    required: true
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/SEPACreditTransfer'
  responses:
    '201':
      description: created
      headers:
        location:
          schema:
            type: string
            format: uri
            description: link to the created resource
```

```
/payments/sepa-credit-transfer/{id}:
```

```
get:
  tags:
    - SEPA Payment
  description: show existing sepa payment
  summary: get a specific SEPA credit transfer
  parameters:
```

```
- name: id
  in: path
  description: ID of sepa payment to be shown
  required: true
  schema:
    type: integer
    format: int64
responses:
  '200':
    description: paymentresponse
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/SEPACreditTransfer'
put:
  tags:
    - SEPA Payment
  description: modify existing sepa payment
  summary: modify a specific SEPA credit transfer
  parameters:
    - name: id
      in: path
      description: ID of sepa payment to modify
      required: true
      schema:
        type: integer
        format: int64
  responses:
    '200':
      description: Successful execution
delete:
  tags:
    - SEPA Payment
  description: delete sepa payment
  summary: delete a sepa credit transfer
  parameters:
    - name: id
```

```
    in: path
    description: ID of sepa payment to delete
    required: true
    schema:
      type: integer
      format: int64
  responses:
    '200':
      description: sepa payment has been deleted
    '201':
      description: sepa payment is marked for deletion
    '404':
      description: sepa payment does not exist
```

```
# -----
# ----- Models -----
# -----
```

```
components:
  schemas:
    # ---- Account Reference ----
    AccountReference:
      description: Account identifier
      type: object
      properties:
        iban:
          $ref: '#/components/schemas/Iban'
        currency:
          $ref: '#/components/schemas/Currency'
```

```
# -----
```

```
# --- Account Types ---
Iban:
  type: string
  example: CH93 0076 2011 6238 5295 7
IsrAccountNum:
  type: string
  maxLength: 11
```

---- Currency ----

Currency:

description: ISO 4217 code

type: string

pattern: '[A-Z]{3}'

---- Amount ----

Amount:

description: amount to be transferred, with currency

type: object

required:

- currency

- content

properties:

currency:

\$ref: '#/components/schemas/Currency'

content:

description: amount given with fractional digits, the separator is a dot

type: string

pattern: '-?\d{1,14}(:?\.\d{1,3})?'

---- Address ----

Address:

type: object

properties:

street:

type: string

maxLength: 70

buildingNumber:

type: string

city:

type: string

postalCode:

```
    type: string
  country:
    $ref: '#/components/schemas/Country'
# -----

# ---- Country Code ----
Country:
  type: string
  pattern: '[A-Z]{2}'
  example: CH
  description: 2-Letter ISO 3166-2 Country Code
# -----

# ---- Date Formats
Date:
  type: string
  format: date
  example: 2018-04-13
DateTime:
  type: string
  format: date-time
  example: 2018-04-13T11:11:11Z
# -----

# ---- Links ----
Links:
  description: links returned in the answer of an API call
  type: object
  properties:
    self:
      type: string
    first:
      type: string
    previous:
      type: string
    next:
      type: string
```

```
    last:
      type: string
# -----

# ---- Transaction Status ----
transactionStatus:
  type: string
  maxLength: 4
  description: ISO 200222 Code
# -----

# ---- ISR Payment ----
ISRPayment:
  description: ISR payment message
  type: object
  required:
    - debtorAccount
    - creditorAccount
    - creditorName
    - creditorAddress
    - instructedAmount
    - remittanceInformationUnstructured
properties:
  debtorAccount:
    $ref: '#/components/schemas/AccountReference'
  creditorName:
    type: string
    maxLength: 70
  creditorAddress:
    $ref: '#/components/schemas/Address'
  creditorAccount:
    $ref: '#/components/schemas/IsrAccountNum'
  instructedAmount:
    $ref: '#/components/schemas/Amount'
  remittanceInformationUnstructured:
    type: string
    maxLength: 140
```

```
    example: 123456789012345678901234567
    description: ISR-Reference-Number of the transcation
    requestedExecutionDate:
      $ref: '#/components/schemas/Date'
    executionDate:
      $ref: '#/components/schemas/Date'
# -----

# ---- SIC Payment ----
SICPayment:
  type: object
  required:
    - debtorAccount
    - creditorAccount
    - creditorName
    - creditorAddress
    - instructedAmount
    - remittanceInformationUnstructured
  properties:
    debtorAccount:
      $ref: '#/components/schemas/AccountReference'
    creditorAccount:
      $ref: '#/components/schemas/Iban'
    creditorName:
      type: string
      maxLength: 70
    creditorAddress:
      $ref: '#/components/schemas/Address'
    instructedAmount:
      $ref: '#/components/schemas/Amount'
    remittanceInformationUnstructured:
      type: string
      maxLength: 140
      example: Lohn Maerz 2018
      description: Purpose of the money transfer
    requestedExecutionDate:
      $ref: '#/components/schemas/Date'
```



```
    executionDate:
      $ref: '#/components/schemas/Date'
    salary_payment:
      type: boolean
      example: false
      description: Specifies whether the tranfer is a salary payment
# -----

# ---- SEPA Credit Transfer----
SEPACreditTransfer:
  type: object
  required:
    - debtorAccount
    - creditorAccount
    - instructedAmount
    - creditorName
  properties:
    instructedAmount:
      $ref: '#/components/schemas/Amount'
    debtorAccount:
      $ref: '#/components/schemas/AccountReference'
    creditorAccount:
      $ref: '#/components/schemas/AccountReference'
    creditorName:
      type: string
      maxLength: 70
    creditorAddress:
      $ref: '#/components/schemas/Address'
    requestedExecutionDate:
      $ref: '#/components/schemas/Date'
    executionDate:
      $ref: '#/components/schemas/Date'
    remittanceInformationUnstructured:
      type: string
      maxLength: 140
# -----
```

---- General Payment ----

Payment:

type: object

required:

- paymentID
- creditorAccount
- instructedAmount
- paymentType
- executionDate
- transactionStatus
- linkRef

properties:

paymentID:

type: string

creditorAccount:

\$ref: '#/components/schemas/AccountReference'

instructedAmount:

\$ref: '#/components/schemas/Amount'

paymentType:

type: string

maxLength: 20

executionDate:

\$ref: '#/components/schemas/Date'

transactionStatus:

\$ref: '#/components/schemas/transactionStatus'

linkRef:

type: string

externalDocs:

description: Find out more about SFTI API specifications

url: 'https://www.swissfintechinnovations.ch/API-Specifications'