TÀI LIỆU API 

Dự án: Remittance

Version: 1.2

# REVISION HISTORY

| DATE | VERSION | PART | PIC | APPROVER | Purpose |
| --- | --- | --- | --- | --- | --- |
| Oct 9, 2024 | 1.2 |  | [VÕ HỒNG THIÊN NHI - ITC - ITBA - IT Business Analyst](mailto:nhi.vo1@mservice.com.vn) | [BÙI HUỲNH KINH LUÂN - ITC - SOF - Associate Engineering Manager](mailto:luan.bui@mservice.com.vn) | Update các API:   * Check exchange rate * Sell currency |
| 2 thg 9, 2024 | 1.1 |  | [VÕ HỒNG THIÊN NHI - ITC - ITBA - IT Business Analyst](mailto:nhi.vo1@mservice.com.vn) | [BÙI HUỲNH KINH LUÂN - ITC - SOF - Associate Engineering Manager](mailto:luan.bui@mservice.com.vn) | Bổ sung API Check sell currency |
| 18 thg 7, 2024 | 1.0 |  | [VÕ HỒNG THIÊN NHI - ITC - ITBA - IT Business Analyst](mailto:nhi.vo1@mservice.com.vn) | [BÙI HUỲNH KINH LUÂN - ITC - SOF - Associate Engineering Manager](mailto:luan.bui@mservice.com.vn) | Khởi tạo |

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# OVERVIEW

Concept: Hỗ trợ mua bán ngoại tệ với ngân hàng

# APIs

* Dev: business-forex-app-grpc.sof:8081
* UAT: business-forex-app-grpc.sof-uat:8081
* Production: Updating

## Proto

| syntax = "proto3";  import "sof\_receipt.proto";  import "sof\_initiator.proto";  import "sof\_enum.proto";  option java\_multiple\_files = true;  option java\_package = "mservice.sof.proto";  message SofPgwRequest {  string eventId = 1;  int64 eventTime = 2;  int32 agentId = 3;  string receiptId = 4;  string merchantId = 5;  InitiatorInfo initiatorInfo = 6;  ReceiptData receiptData = 7;  ReceiptState state = 8;  ReceiptStatus status = 9;  ReceiptType type = 10;  int32 errorCode = 11;  string errorDesc = 12;  string channel = 13;  }  message SofPgwResponse {  string eventId = 1;  int64 eventTime = 2;  string receiptId = 3;  ReceiptData receiptData = 4;  ReceiptState state = 5;  ReceiptStatus status = 6;  ReceiptType type = 7;  int32 errorCode = 8;  string errorDesc = 9;  InitiatorInfo initiatorInfo = 10;  }  message RepaymentReceipt {  string monthId = 1;  string billType = 2;  int64 insAmount = 3;  int64 plPenaltyRecordFee = 4;  int64 plPenaltyFee = 5;  int64 interestAmount = 6;  int64 serviceFee = 7;  }  message InitiatorInfo {  string initiator = 1;  string pin = 2;  string pinEncoding = 3;  }  message ReceiptData {  string id = 1;  int64 tranId = 2;  string code = 3;  int64 amount = 4;  int64 fee = 5;  int64 tax = 6;  int32 source = 7;  string from = 8;  string to = 9;  string team = 10;  int32 msErrorCode = 11;  string merchantErrorCode = 12;  map<string, string> details = 13;  repeated RepaymentReceipt repaymentReceipts = 19;  }  enum ReceiptState {  INIT = 0;  OPEN = 1;  PAID = 2;  CANCEL = 3;  COMPLETED = 4;  QUOTE = 5;  CHECK\_FEE = 6;  CHECK\_ACCOUNT = 7;  }  enum ReceiptStatus {  STATUS\_UNKNOWN = 0;  PENDING = 1;  COMMIT = 2;  ROLLBACK = 3;  IN\_PROCESS = 4;  SUCCESS = 5;  }  enum ReceiptType {  DISBURSE = 0;  PAYOUT = 1;  PAYOUT\_PAYLATER = 2;  CREATE\_TOKEN = 3;  DONATE = 4;  UPDATE\_TOKEN = 5;  GET\_TOKEN = 6;  INQUIRY = 7;  CHECK\_BALANCE = 8;  FUND\_TRANSFER = 9;  RETRY\_FUND\_TRANSFER = 10;  REDIRECT\_DISBURSE = 11;  BILLPAY = 12;  SELL\_ASSET\_ACTIVE = 13;  SELL\_ASSET\_PASSIVE = 14;  GET\_ASSET = 15;  GET\_TID\_ORDER\_MATCHING = 16;  BUY\_LOAN = 17;  ADJUST\_REPAYMENT = 18;  UPDATE\_EXCHANGE\_RATE = 19;  CHECK\_EXCHANGE\_RATE = 20;  SELL\_CURRENCY = 21;  }  service SofPgwService {  rpc perform(SofPgwRequest) returns (SofPgwResponse) {}  } |
| --- |

## 

## CHECK EXCHANGE RATE

| Purpose | Dùng để service gọi check tỷ giá theo partnerCode và currencyCode |
| --- | --- |
| Method | gRPC |

### 

### REQUEST

| NO. | FIELD | TYPE | REQUIRED | DESCRIPTION |
| --- | --- | --- | --- | --- |
| 1 | eventId | string | x | id định danh cho request |
| 2 | eventTime | int64 | x | thời gian gửi request |
| 3 | initiatorInfo.initiator | string | x |  |
| 4 | initiatorInfo.pin | string | x |  |
| 5 | initiatorInfo.pinEncoding | string | x |  |
| 6 | receiptData.team | string | x |  |
| 7 | receiptData.partnerCode | string | x | partner gọi check tỷ giá |
| 8 | receiptData.currency | string | x | loại tiền  “101”: usd |
| 9 | type | string | x | CHECK\_EXCHANGE\_RATE |
| 10 | channel | string | x |  |

### RESPONSE

| NO. | FIELD | TYPE | REQUIRED | DESCRIPTION |
| --- | --- | --- | --- | --- |
| 1 | eventId | string |  |  |
| 2 | eventTime | int64 |  |  |
| 3 | receiptData.details.currencyDetail | string |  | ex: "{\"101\":{\"104\":\"23710\",\"12345\":\"23700\"}}"  101: currency (USD)  104,12345: bankCode  23710,23700: exchange rate |
| 4 | state | string |  |  |
| 5 | status | string |  |  |
| 6 | type | string |  | CHECK\_EXCHANGE\_RATE |
| 7 | errorCode | int32 |  |  |
| 8 | errorDesc | string |  |  |

#### 

### EXAMPLE

| Request | {  "eventId": "*{{$guid}}*",  "eventTime": 1702602558,  "initiatorInfo": {  "initiator": "\*\*\*\*",  "pin": "\*\*\*\*",  "pinEncoding": "sha"  },  "receiptData": {  "team": "SOF"  },  "type": "CHECH\_EXCHANGE\_RATE",  "channel": ""  } |
| --- | --- |
| Response | {  "eventId": "1f938f23-19cd-4141-98cd-8747b8b443da",  "eventTime": "1721272679376",  "receiptData": {  "details": {  "currencyDetail": "{\"101\":{\"104\":\"23710\",\"12345\":\"23700\"}}"  }  },  "state": "INIT",  "status": "COMMIT",  "type": "CHECK\_EXCHANGE\_RATE",  "errorCode": 0,  "errorDesc": ""  } |

## UPDATE EXCHANGE RATE

| Purpose | Cập nhật tỷ giá |
| --- | --- |
| Method | gRPC |

### 

### REQUEST

| NO. | FIELD | TYPE | REQUIRED | DESCRIPTION |
| --- | --- | --- | --- | --- |
| 1 | eventId | string | x |  |
| 2 | eventTime | int64 | x |  |
| 3 | receiptId | string | x |  |
| 4 | initiatorInfo.initiator | string | x |  |
| 5 | initiatorInfo.pin | string | x |  |
| 6 | initiatorInfo.pinEncoding | string | x |  |
| 7 | receiptData.bankInfo.bankCode | string | x |  |
| 8 | receiptData.partnerCode | string | x |  |
| 9 | receiptData.currency | string | x | loại ngoại tệ  101: USD |
| 10 | receiptData.exchange\_rate | string | x | tỷ giá |
| 11 | type | string | x | UPDATE\_EXCHANGE\_RATE |
| 12 | channel | string | x |  |

### 

### RESPONSE

| NO. | FIELD | TYPE | REQUIRED | DESCRIPTION |
| --- | --- | --- | --- | --- |
| 1 | eventId | string |  |  |
| 2 | eventTime | int64 |  |  |
| 3 | receiptId | string |  |  |
| 4 | receiptData.bankInfo.bankCode | string |  |  |
| 5 | receiptData.partnerCode | string |  |  |
| 6 | receiptData.details.currency | string |  | loại ngoại tệ  101: USD |
| 7 | receiptData.details.exchange\_rate | string |  | tỷ giá |
| 8 | receiptData.team | string |  |  |
| 9 | receiptData.msErrorCode | int32 |  |  |
| 10 | receiptData.transId | int64 |  |  |
| 11 | state | string |  |  |
| 12 | status | string |  |  |
| 13 | type | string |  | UPDATE\_EXCHANGE\_RATE |
| 14 | errorCode | int32 |  |  |
| 15 | errorDesc | string |  |  |

#### 

### EXAMPLE

| Request | {  "eventId": "*{{$guid}}*",  "eventTime": 1702602558,  "receiptId": "136b2bb7-4583-4327-bb7f-66e25cb3f62f",  "initiatorInfo": {  "initiator": "\*\*\*\*",  "pin": "\*\*\*\*",  "pinEncoding": "sha"  },  "receiptData": {  "bankInfo": {  "bankCode": "12345"  },  "partnerCode": "remittance\_taptapsend",  "currency": "101",  "exchange\_rate": "25312"  },  "type": "UPDATE\_EXCHANGE\_RATE",  "channel": ""  } |
| --- | --- |
| Response | {  "eventId": "136b2bb7-4583-4327-bb7f-66e25cb3f62f",  "eventTime": "1721270250890",  "receiptId": "136b2bb7-4583-4327-bb7f-66e25cb3f62f",  "receiptData": {  "bankInfo": {  "bankCode": "12345"  },  "partnerCode": "remittance\_taptapsend",  "details": {  "currency": "101",  "exchange\_rate": "25312"  },  "team": "FS",  "msErrorCode": 0,  "tranId": 4086029664  },  "state": "INIT",  "status": "COMMIT",  "type": "UPDATE\_EXCHANGE\_RATE",  "errorCode": 0,  "errorDesc": ""  } |

## SELL CURRENCY

| Purpose | Bán ngoại tệ |
| --- | --- |
| Method | gRPC |

### REQUEST

| NO. | FIELD | TYPE | REQUIRED | DESCRIPTION |
| --- | --- | --- | --- | --- |
| 1 | eventId | string | x |  |
| 2 | eventTime | int64 | x |  |
| 3 | receiptId | string | x |  |
| 4 | initiatorInfo.initiator | string | x |  |
| 5 | initiatorInfo.pin | string | x |  |
| 6 | initiatorInfo.pinEncoding | string | x |  |
| 7 | receiptData.bankInfo.bankCode | string | x |  |
| 8 | receiptData.partnerCode | string | x |  |
| 9 | receiptData.currency | string | x | loại ngoại tệ  101: USD |
| 10 | receiptData.exchange\_rate | string | x | tỷ giá |
| 11 | receiptData.amount | string | x | số lượng ngoại tệ |
| 12 | type | string | x | SELL\_CURRENCY |
| 13 | channel | string | x |  |

### RESPONSE

| NO. | FIELD | TYPE | REQUIRED | DESCRIPTION |
| --- | --- | --- | --- | --- |
| 1 | eventId | string |  |  |
| 2 | eventTime | int64 |  |  |
| 3 | receiptId | string |  |  |
| 4 | receiptData.bankInfo.bankCode | string |  |  |
| 5 | receiptData.partnerCode | string |  |  |
| 6 | receiptData.details.currency | string |  | loại ngoại tệ  101: USD |
| 7 | receiptData.details.exchange\_rate | string |  | tỷ giá |
| 8 | receiptData.team | string |  |  |
| 9 | receiptData.msErrorCode | int32 |  |  |
| 10 | receiptData.transId | int64 |  |  |
| 11 | state | string |  |  |
| 12 | status | string |  |  |
| 13 | type | string |  | SELL\_CURRENCY |
| 14 | errorCode | int32 |  |  |
| 15 | errorDesc | string |  |  |

#### 

### EXAMPLE

| Request | {  "eventId": "136b2bb7-4583-4327-bb7f-66e25cb3f62f",  "eventTime": "1721270250890",  "receiptId": "136b2bb7-4583-4327-bb7f-66e25cb3f62f",  "receiptData": {  "bankInfo": {  "bankCode": "12345"  },  "partnerCode": "remittance\_taptapsend",  "agent": "MM123456789"  "details": {  "currency": "101",  "exchange\_rate": "25312"  },  "team": "FS",  "msErrorCode": 0,  "tranId": 4086029664  },  "state": "INIT",  "status": "COMMIT",  "type": "SELL\_CURRENCY",  "errorCode": 0,  "errorDesc": ""  } |
| --- | --- |
| Response | {  "eventId": "136b2bb7-4583-4327-bb7f-66e25cb3f62f",  "eventTime": "1721270250890",  "receiptId": "136b2bb7-4583-4327-bb7f-66e25cb3f62f",  "receiptData": {  "bankInfo": {  "bankCode": "12345"  },  "details": {  "currency": "101",  "exchange\_rate": "23700"  },  "amount": "10000",  "team": "FS",  "msErrorCode": 0,  "tranId": 4086029664  },  "state": "INIT",  "status": "COMMIT",  "type": "SELL\_CURRENCY",  "errorCode": 0,  "errorDesc": ""  } |

# ERROR CODE

| NO. | ERROR CODE | DESCRIPTION | STATUS | API |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## 

# APPENDIX