

Gateway Requirements_v2

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ChangeLog

| Date | Log | | |
|------------|--|--|--|
| 2017-10-29 | created | | |
| 2017-11-02 | Add description about offline cash-in, cash out, shown in Chapter 6.7, 6.8, 6.9, 6,10, 6.11. | | |

1. Introduction

1.1. Purpose

This document is a description of the API Functions that BananaPay hope PeraHub can provide.

1.2. Target Audience

PeraHub developers And BananaPay Developers.

2. Overview

2.1. Communication Protocol

HTTPS POST

3. Definitions

3.1. PeraHub

3.2. BananaPay(BNNP)

BNNP will open a company account in pera-hub .

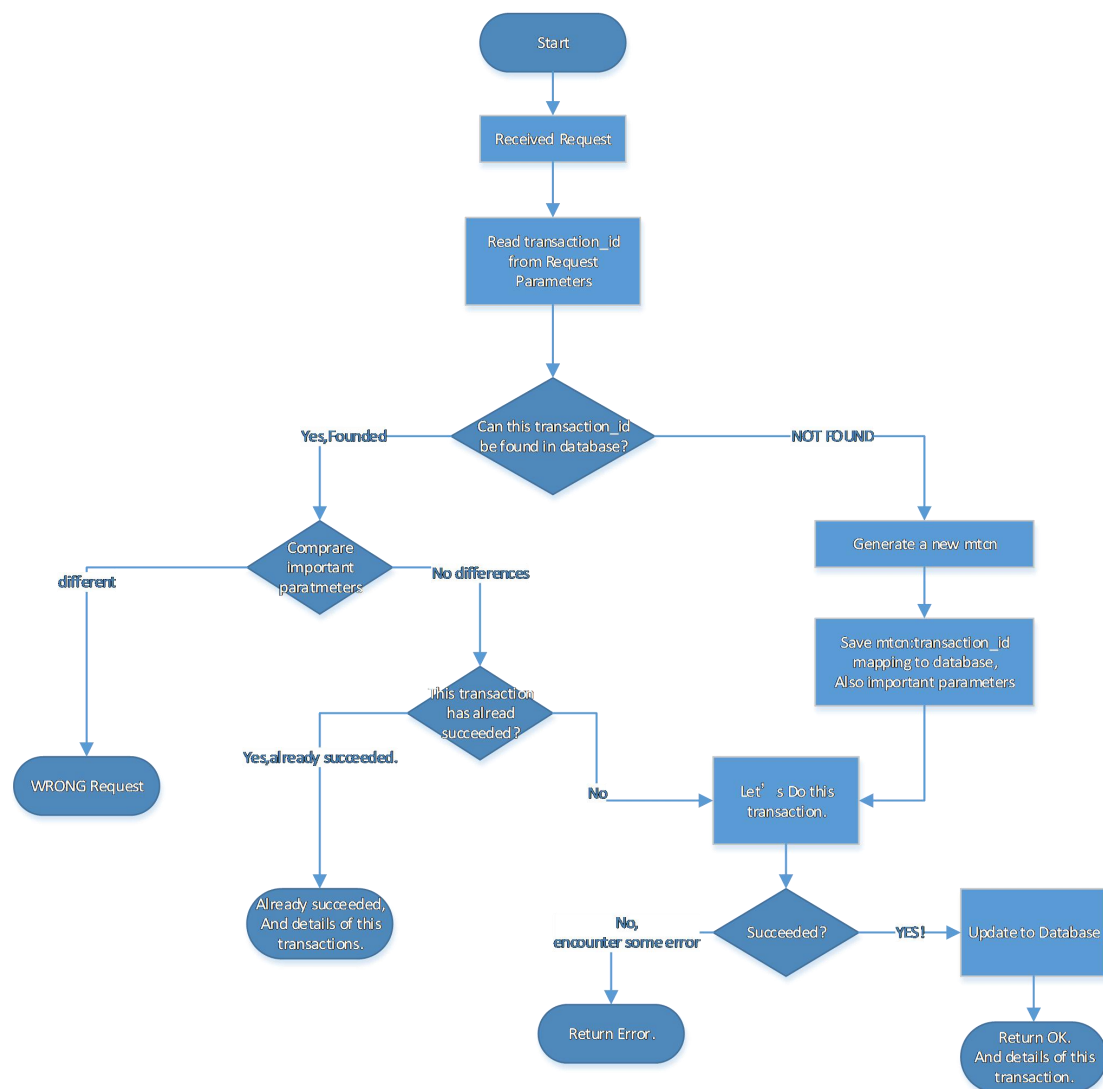
3.3. Message

3.4. Idempotent

Idempotent is a very important features to Transaction System, especially when this system having one than one modules.

To satisfy *Idempotent* , every request between system modules, must have one Unique identity, so we use *transaction_id* and *mtcn*.

And common sequence of the system may be shown as below.



According the flow shown above, we can ensure that the duplicate request with the same *transaction_id* can succeeded ONLY ONCE.

3.5. Transaction_id

4. Message Overview

4.1. Message List

4.1.1. Message Number

Message Number must follow the rule as “XXXX.YYY.ZZZ.NN”,

- XXXX represents the system id, e.g. ‘bnp’
- YYY represents Message name, e.g. ‘101’, this will diff message type.
- ZZZ is reserved, now should be filled as ‘001’
- NN represents the version no, now should be filled as ‘01’

4.1.2. Message List

| No. | Msg No | MsgName | Msg Direction | Need Signature | Need statement check |
|-----|----------------|---|------------------|----------------|----------------------|
| 1. | Bnp.101.001.01 | Authentication And BindCard | BNNP -> pera hub | Y | N |
| 2. | Bnp.201.001.01 | Payment after bind | BNNP->pera hub | Y | Y |
| 3. | Bnp.301.001.01 | Refund | BNNp->pera hub | Y | Y |
| 4. | Bnp.402.001.01 | Payment to bank | Bbnp->pera | Y | Y |
| 5. | Bnp.501.001.01 | Transaction Query | BNNP->pera hub | Y | N |
| 6. | Bnp.502.001.01 | Fee Inquiry | Bnp->pera hub | Y | N |
| 7. | bnp.601.001.01 | Offline Cash In By Pera-hub In paper form | pera-hub -> bnp | Y | Y |
| 8. | bnp.602.001.01 | Offline Cash-out By perahub in paper form | perahub->bnp | Y | Y |
| 9. | bnp.701.001.01 | Offline Cash in by pera-hub in E-FORM | pera-hub->bnp | Y | Y |

| | | | | | |
|-----|-----------------|--|---------------------|---|---|
| 10. | bnnp.702.001.01 | offline cash-out by perahub in E-FORM | perahub->bnnp | Y | Y |
| 11. | bnnp.703.001.01 | Query E-form | pera-hub -> bnnp | Y | N |

4.2. Data Type

4.3. Data Requirements

4.4. Encoding

UTF-8

4.5. Reserved

5. Message Syntax

5.1. Overview

5.2. How to deal with exceptions

6. API Functions

6.1. Authentication And BindCard[Bnnp.101.001.01]

6.1.1. Features

This API includes two parts: Authentication and BindCard.

User who has a pera-hub visa card can initiate an application in BNNP and fill required information, and BNNP post message to pera-hub.

Pera-hub check information is correct or not.

If information is correct, BNNP will request again and pera-hub complete the BindCard operation.

After BindCard operation, BNNP and perahub can identify this user by *bind_serialno* .

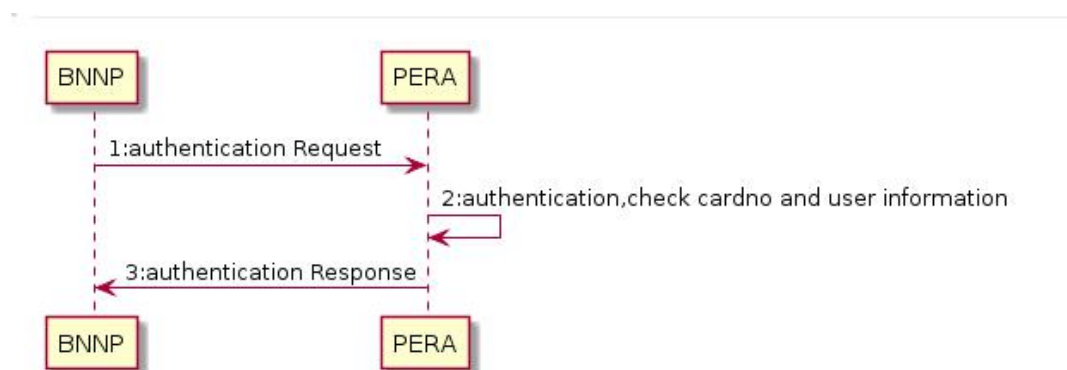
6.1.2. Sequence diagram

6.1.2.1. Authentication

At first, user fills up his information in BNNP APP, and post to bnnp.

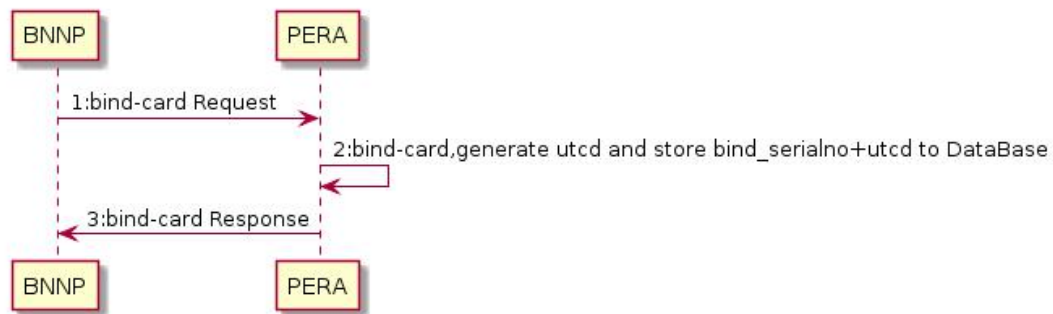
BNNP post user's form to pera.

Pera check this form is correct or not.



6.1.2.2. Bind-Card

Second, if 6.1.2.1 Authentication is successful, then bnp will generate a bind_serialno, and post request data to pera hub again.



6.1.3. Request Parameters

| Name | Type | Required | Description |
|---------------|----------|----------|--|
| bind_serialno | Alpha:32 | O | This filed is MUST when 6.1.2.2. In Request 6.1.1.1 leaves empty. |
| Mobile | Alpha:32 | M | |
| Surname | Alpha:32 | | |
| Givenname | Alpha:32 | | |
| Middlename | Alpha:32 | | |
| Nationality | Alpha:32 | | |
| id | Alpha:32 | M | Customer's national ID CardNo |
| idtype | Alpha:32 | M | Customer's national ID Type |
| Wucardno | Alpha:32 | | At first, we support wu-card only. so pera-hub can validate user information and WU card account. |
| scene | Alpha | M | "authen" : in case 6.1.2.1 "bind" : in case 6.1.2.2 |

6.1.4. Response parameters

| Name | Type | Required | Description |
|---------------|----------|----------|---|
| bind_serialno | Alpha:32 | O | This field is MUST when response to 6.1.2.2. |
| Utcn | Alpha:32 | O | This field is MUST provided in the response to 6.1.2.2. This field should be generated by Perahub, only mapping to bind_serialno exactly 1:1 . |

6.1.5. Questions

- What information is submit to Pera-hub when user apply a new Pera-hub Visa Card in pera-hub branch?

6.2. Payment after bind[Bnnp.201.001.01]

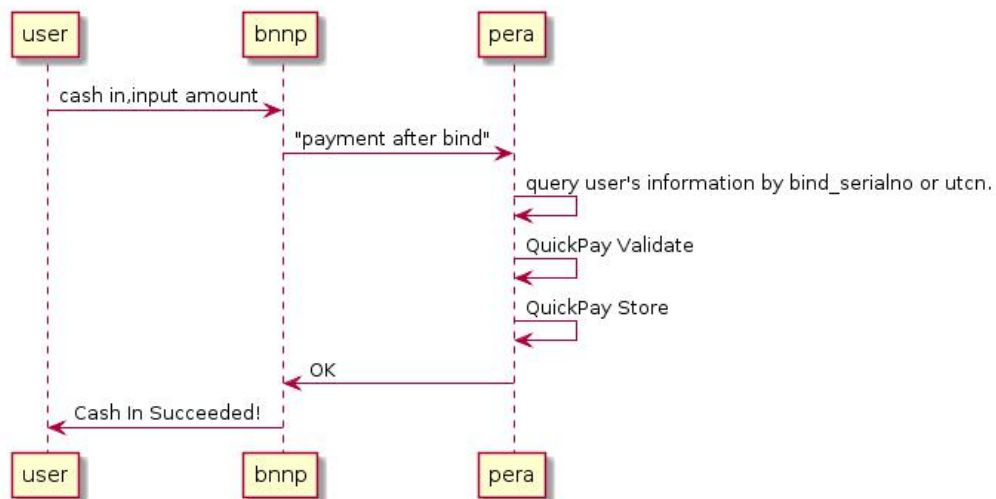
6.2.1. Features

By this function, customer can transfer their money from their bank account to BNNP Company Account. Customer's bank account can be identified by the bind_serialno or utcn.

When user want to pay to BNNP , user submit their request, and BNNP will post request data to perahub, and perahub give respond to BNNP.

This payment transactions record should be listed in T+1's *8.1 PaymentCheckFile* .

6.2.2. Sequence diagram



6.2.3. Request parameters

| Name | Type | Required | Description |
|-------------------|----------|----------|--|
| bind_serialno | Alpha:32 | M | |
| utcn | Alpha:32 | M | |
| transaction_id | Alpha:32 | M | |
| principal_amount | | | Amount to Send |
| fixed_amount_flag | | | F if customer wants a fixed principal amount in the destination country and will not be subject to currency fluctuation. Otherwise N |
| | | | |
| | | | |

6.2.4. Response parameters

| Name | Type | Required | Description |
|----------------|----------|----------|-------------|
| transaction_id | Alpha:32 | M | |
| mtcn | | | |

| | | | |
|-----------------|--|--|---------------------------|
| new_mtcn | | | |
| advisory_text | | | Transaction Date and Time |
| filing_date | | | |
| filing_time | | | |
| pin_message | | | |
| other_message_1 | | | |
| other_message_2 | | | |

6.3. Refund[Bnnp.301.001.01]

6.3.1. Features

Function 6.3 *Refund* will be the opposite of Function 6.2 *Payment after bind*.

In some case, BNNP should return money to one customer, we will call this Function Refund.

One Payment may refunded more than one times, and the sum of the refunded amount SHOULD NOT exceed the amount paid in older payment.

THE REFUND should be listed in the account check file on T+1 Day.

6.3.2. Sequence diagram

6.3.3. Request parameters

| Name | Type | Required | Description |
|----------------------|----------|----------|---|
| Ori_transaction_id | Alpha:32 | M | Transaction_id of older payment. |
| Ori_Mtcn | | M | Mtcn mapping with transaction_id, returned by perahub in function payment. |
| Ori_principal_amount | | | Payed by customer in older payment. |
| Transaction_id | Alpha:32 | M | Refund_id is generated by BNNP, and must be exactly only one in the system. |
| principal_amount | | M | The part of principal_amount, in this request,this part of money |

| | | | |
|--|--|--|-----------------------------|
| | | | will be return to customer. |
|--|--|--|-----------------------------|

6.3.4. Response parameters

| Name | Type | Required | Description |
|------------------|----------|----------|---|
| transaction_id | Alpha:32 | M | Transaction_id of older payment. |
| mtcn | | M | Mtcn mapping with transaction_id, returned by perahub in function payment. |
| principal_amount | | | Payed by customer in older payment. |
| refund_id | Alpha:32 | M | Refund_id is generated by BNNP, and must be exactly only one in the system. |
| refund_amount | | M | The part of principal_amount, in this request, this part of money will be return to customer. |
| refund_mtcn | | M | Generated by perahub, and mapping with refund_id by 1:1 . |

6.3.5. Questions

- How about the fee? Let's talk about this later.

6.4. Payment-to-Bank[Bnnp.402.001.01]

6.4.1. Features

This function will transfer money to some bank account shown in request parameters.

And this function seems like FUNCTION 3.2.3.3. *SendMoney : Direct to Bank* .

When BNNP call this function, perahub acts 3.2.3.3. *SendMoney : Direct to Bank* AND 3.2.3.4. *SendMoney : Direct to Bank Store* . But the sender's information are fixed to BNNP Company bank account .

Receivers' information will be provided in request parameters.

Besides, BNNP will post parameters transaction_id, pera-hub should store transaction_id, when BNNP retry to call this function use the same transaction_id ,pera-hub MUST transfer money ONLY ONCE.

6.4.2. Sequence diagram

6.4.3. Request parameters

| Name | Type | Required | Description |
|----------------------|----------|----------|---|
| transaction_id | Alpha:32 | M | |
| principal_amount | | | Amount to Send |
| fixed_amount_flag | | | F if customer wants a fixed principal amount in the destination country and will not be subject to currency fluctuation. Otherwise N |
| Bank_name | | M | |
| Bank_code | | M | |
| Account_number | | M | |
| Bank_location | | M | |
| Account_suffix | | M | |
| Receiver_addr_line | | C | |
| Receiver_addr_line2 | | C | |
| Receiver_city | | C | |
| Receiver_state | | C | |
| Receiver_postal_code | | C | |

6.4.4. Response parameters

| Name | Type | Required | Description |
|------|------|----------|-------------|
|------|------|----------|-------------|

| | | | |
|-----------------|----------|---|---------------------------|
| transaction_id | Alpha:32 | M | |
| mtcn | | | |
| new_mtcn | | | |
| advisory_text | | | Transaction Date and Time |
| filing_date | | | |
| filing_time | | | |
| pin_message | | | |
| other_message_1 | | | |
| other_message_2 | | | |

6.5. Transaction Query[Bnnp.501.001.01]

6.5.1. Features

6.5.2. Sequence diagram

6.5.3. Request parameters

6.5.4. Response parameters

6.6. Fee Inquiry[Bnnp.502.001.01]

6.6.1. Features

6.6.2. Sequence diagram

6.6.3. Request parameters

6.6.4. Response parameters

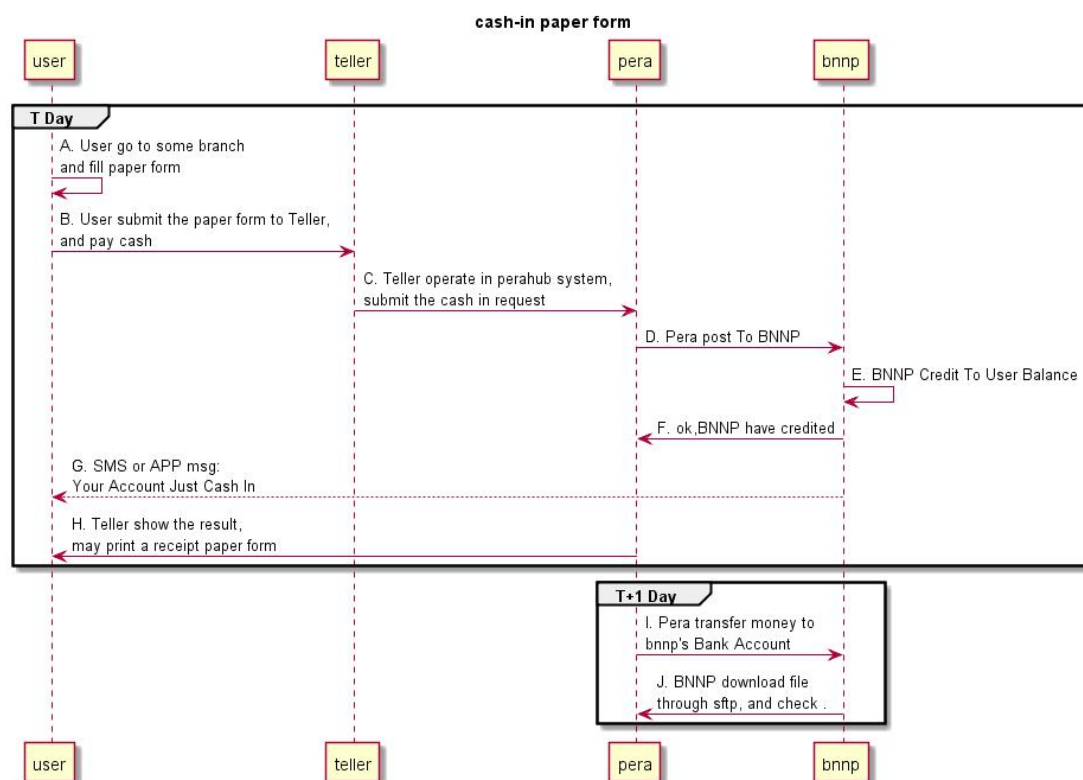
6.7. Offline Cash In By Pera-hub In paper form[bnnp.601.001.01]

6.7.1. Features

When pera-hub post user's information,mtcn,amount and other information to BNNP through this function, BNNP will fully trust perahub and credit amount to user's balance immediately.

And in T+1 Day, BNNP will check the AccountCheckFile and the Company Bank Account Statement .

6.7.2. Sequence diagram



- a. User walk in pera-hub's branch, fill a paper form.
 - User MUST provide their mobile-no and cash-in amount exactly right.
 - Also user should provide other information as CentralBank demanded, such as ID card,name,birthday.
- b. User submit paper form to a teller, and pay cash.

- c. Teller of pera-hub check the form, receive cash and submit request to pera-hub system.
- d. Pera-hub post data to BNNP by this function, and bnnp will credit to this user's balance.
- e. BNNP check the request is valid or not. If valid, credit to user's balance.
- f. BNNP return 'ok'.
- g. BNNP push APP MSG or SMS to user's mobile.
- h. Teller show cash-in result to user, print paper receipt if needed.
- i. Pera-hub transfer money to BNNP's Bank Account
- j. BNNP check the bank account statement .

6.7.3. Request parameters

| Name | Type | Required | Description |
|------------------|----------|----------|--|
| Mtcn | Alpha:32 | MUST | <p>Pera-hub generate this number, this field just like <i>transaction_id</i> in <i>payment after bind</i>.</p> <p>In this cash-in process, this mtcn should keep the same.</p> |
| total_amount | | M | The amount customer has payed in cash to teller, MUST NOT be 0 . |
| principle_amount | | M | The amount should be credited to customer's balance account in BNNP, identified by <i>mobile</i> , MUST NOT be 0 . |
| fee_amount | | M | <p>This amount received by PeraHub as fee, may be 0.</p> <p>Anytime, total_amount MUST EQUAL TO principle_amount+fee_amount.</p> |
| user_information | | M | <p>user_information, we can discuss about this later, may need fields like :</p> <ul style="list-style-type: none"> ● Surname ● Givenname ● Middlename ● Nationality ● id ● idtype |

6.7.4. Response parameters

| Name | Type | Required | Description |
|------------------|----------|----------|--|
| transaction_id | Alpha:32 | M | Generated by BNNP, and this <i>transaction_id</i> will be mapping to <i>mtcn</i> one by one. |
| mtcn | | | equals to request |
| mobile | | | equals to request |
| credited_balance | | | Amount credited to customer's account this time |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

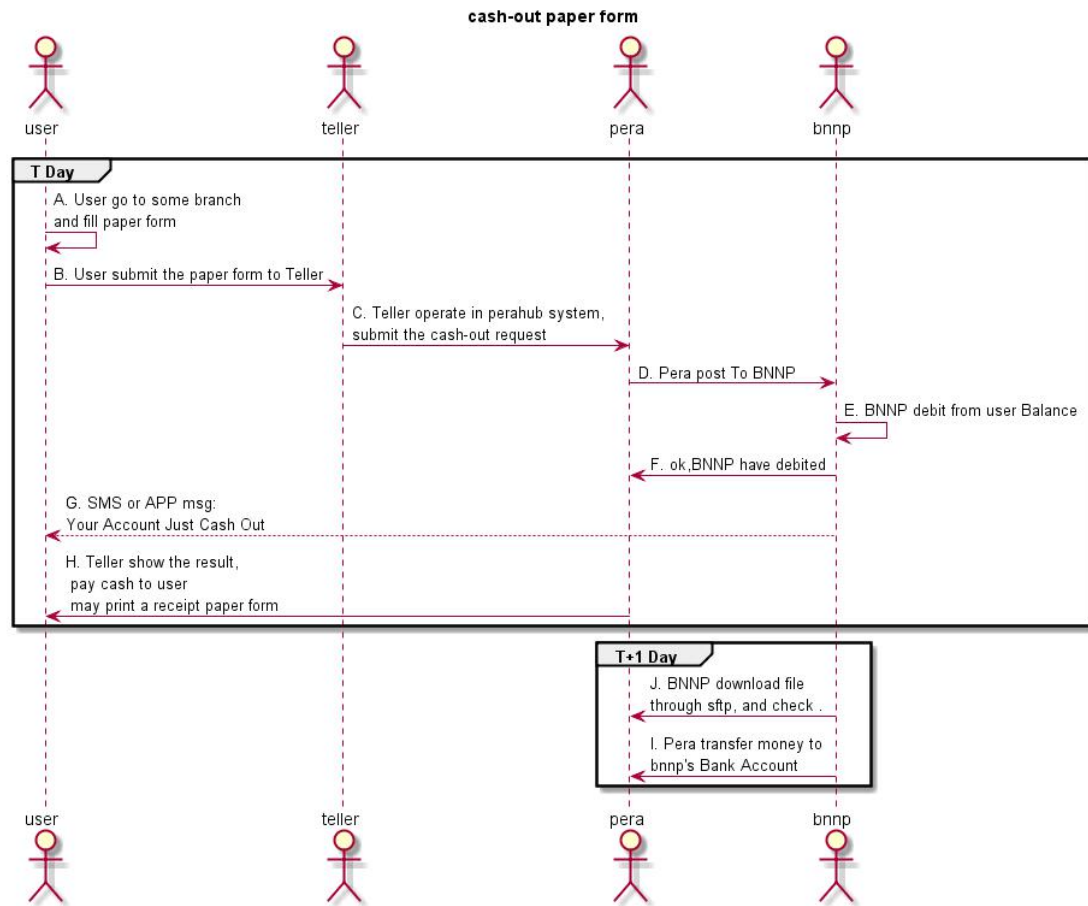
6.8. Offline Cash-Out By Pera-hub In paper form[bnnp.602.001.01]

6.8.1. Features

When pera-hub post user's information,mtcn,amount and other information to BNNP through this function, BNNP will fully trust perahub and debit amount from user's balance account immediately.

And in T+1 Day, BNNP will check the AccountCheckFile and pay money to perahub's company bank account.

6.8.2. sequence diagram



6.8.3. Request parameters

| Name | Type | Required | Description |
|------------------|----------|----------|--|
| Mtcn | Alpha:32 | MUST | Pera-hub generate this number, this field just like <i>transaction_id</i> in <i>payment after bind</i> . In this cash-in process, this mtcn should keep the same. |
| Mobile | Alpha:32 | M | |
| total_amount | | M | The amount customer has payed in cash to teller, MUST NOT be 0 . |
| principle_amount | | M | The amount should be credited to customer's balance account in BNNP, identified by <i>mobile</i> , MUST NOT be 0 . |
| fee_amount | | M | This amount received by PeraHub as fee, may be 0. |

| | | | |
|------------------|--|---|---|
| | | | Anytime, total_amount MUST EQUAL TO principle_amount+fee_amount. |
| user_information | | M | user_information, we can discuss about this later, may need fields like : <ul style="list-style-type: none"> ● Surname ● Givenname ● Middlename ● Nationality ● id ● idtype |

6.8.4. Response parameters

| Name | Type | Required | Description |
|-----------------|----------|----------|--|
| transaction_id | Alpha:32 | M | Generated by BNNP, and this <i>transaction_id</i> will be mapping to <i>mtcn</i> one by one. |
| mtcn | | | equals to request |
| mobile | | | equals to request |
| debited_balance | | | Amount credited to customer's account this time |
| | | | |

6.9. Offline Cash in by pera-hub in E-FORM[bnnp.701.001.01]

6.9.1. Features

As shown In 6.7 *Cash In paper-form*, customer and the teller must fill many information, and customer can do this only in the branch, and teller will operate a lot in pera-hub system.

This function will help customer and teller cash-in much easier.

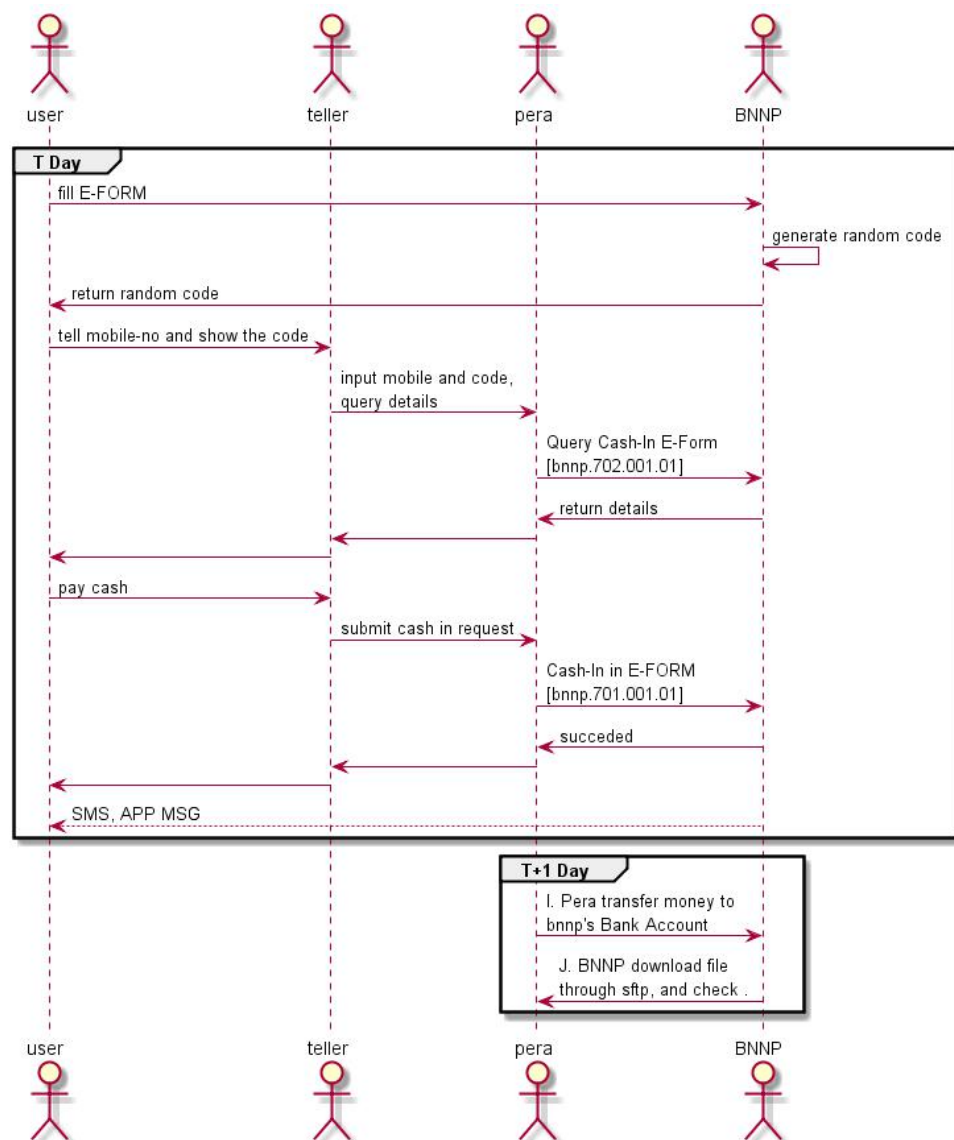
When a customer want cash-in, he can fill form in his APP, and BNNP will generate a random code.

Customer tell his mobile-no to teller, and show this code.

Teller can query all form details by mobile-no and code.

After that, teller can receive cash from customer, and operate in pera system to credit to customers' balance .

6.9.2. Sequence diagram



6.9.3. Request parameters

| Name | Type | Required | Description |
|------------------|----------|----------|--|
| mtcn | Alpha:32 | MUST | Pera-hub generate this number, this field just like <i>transaction_id</i> in <i>payment after bind</i> . In this cash-in process, this mtcn should keep the same. |
| transaction_id | | MUST | This field is returned in <i>Query Cash-In E-Form[bnnp.703.001.01]</i> . |
| total_amount | | M | The amount customer has payed in cash to teller, MUST NOT be 0 . |
| principle_amount | | M | The amount should be credited to customer's balance account in BNNP, identified by <i>mobile</i> , MUST NOT be 0 . |
| fee_amount | | M | This amount received by PeraHub as fee, may be 0. Anytime, total_amount MUST EQUAL TO principle_amount+fee_amount. |
| user_information | | M | user_information, we can discuss about this later, may need fields like : <ul style="list-style-type: none">● Surname● Givenname● Middlename● Nationality● id● idtype |

6.9.4. Response parameters

| Name | Type | Required | Description |
|------|----------|----------|--------------------------------|
| mtcn | Alpha:32 | MUST | Pera-hub generate this number, |

| | | | |
|------------------|--|------|---|
| | | | <p>this field just like <i>transaction_id</i> in <i>payment after bind</i>.</p> <p>In this cash-in process, this mtcn should keep the same.</p> |
| transaction_id | | MUST | This field is returned in <i>Query Cash-In E-Form[bnnp.703.001.01]</i> . |
| total_amount | | M | The amount customer has payed in cash to teller, MUST NOT be 0 . |
| principle_amount | | M | The amount should be credited to customer's balance account in BNNP, identified by <i>mobile</i> , MUST NOT be 0 . |
| fee_amount | | M | <p>This amount received by PeraHub as fee, may be 0.</p> <p>Anytime, total_amount MUST EQUAL TO principle_amount+fee_amount.</p> |

6.10. offline cash-out by perahub in E-FORM

[bnnp.702.001.01]

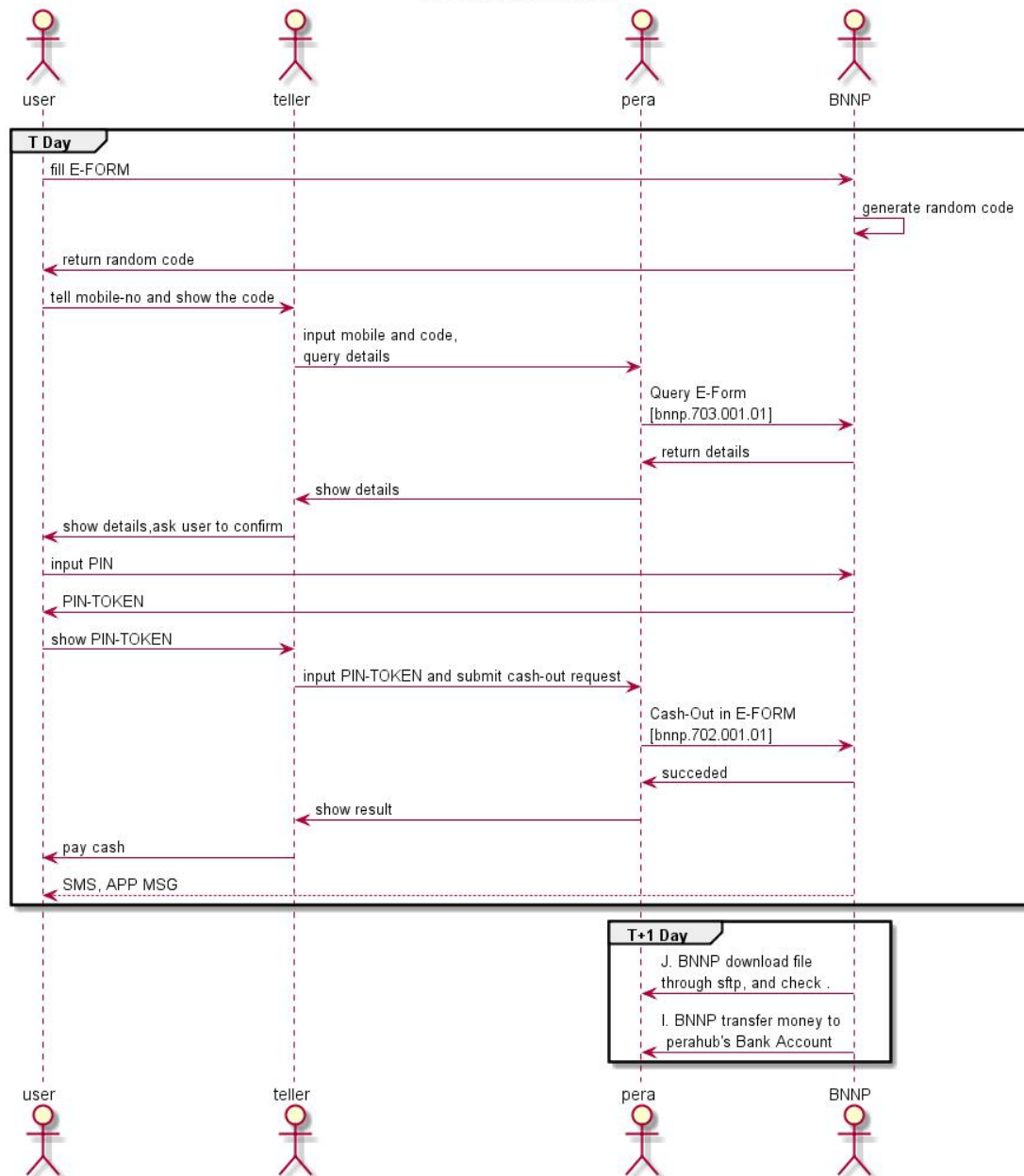
6.10.1. Features

This function can help customer get cash in perahub branch and debit from their BNNP 's balance.

The teller pay cash to customer, and in T+1 Day, BNNP will pay total amount to pera-hub.

6.10.2. Sequence diagram

6.9.2 cash-out E-FORM



6.10.3. Request parameters

| Name | Type | Required | Description |
|-----------|----------|----------|--|
| PIN-TOKEN | | MUST | Customer will show this to teller. |
| mtcn | Alpha:32 | MUST | Pera-hub generate this number, this field just like <i>transaction_id</i> in <i>payment after bind</i> . |

| | | | |
|------------------|--|------|---|
| | | | In this cash-out process, this mtcn should keep the same. |
| transaction_id | | MUST | This field is returned in <i>Query Cash-In E-Form[bnnp.703.001.01]</i> . |
| total_amount | | M | The amount should be debited from customer's balance account in BNNP, identified by <i>mobile</i> , MUST NOT be 0 . |
| principle_amount | | M | The amount should be given to customer in cash. |
| fee_amount | | M | This amount received by PeraHub as fee, may be 0. Anytime, total_amount MUST EQUAL TO principle_amount+fee_amount. |
| user_information | | M | user_information, we can discuss about this later, may need fields like : <ul style="list-style-type: none"> ● Surname ● Givenname ● Middlename ● Nationality ● id ● idtype |

6.10.4. Response parameters

| Name | Type | Required | Description |
|----------------|----------|----------|--|
| mtcn | Alpha:32 | MUST | Pera-hub generate this number, this field just like <i>transaction_id</i> in <i>payment after bind</i> . In this cash-in process, this mtcn should keep the same. |
| transaction_id | | MUST | This field is returned in <i>Query Cash-In E-Form[bnnp.703.001.01]</i> . |
| total_amount | | M | The amount customer has payed in cash to teller, MUST NOT be 0 . |

| | | | |
|------------------|--|---|---|
| principle_amount | | M | The amount should be credited to customer's balance account in BNNP, identified by <i>mobile</i> , MUST NOT be 0 . |
| fee_amount | | M | This amount received by PeraHub as fee, may be 0. Anytime, total_amount MUST EQUAL TO principle_amount+fee_amount. |

6.11. Query E-form[bnnp.703.001.01]

6.11.1. Features

As described in *Features of Cash-In In E-FORM* and *Features of Cash-Out In E-FORM*, BNNP will return all form details, and pera-hub can stored this form details as central-bank demanded.

6.11.2. Sequence diagram

shown in 6.9.2 .

6.11.3. Request parameters

| Name | Type | Required | Description |
|--------|----------|----------|------------------------------------|
| Mobile | Alpha:32 | M | |
| code | | M | Customer will show this to teller. |

6.11.4. Response parameters

| Name | Type | Required | Description |
|------------------|------|----------|--|
| transaction_id | | MUST | Transaction_id generated by BNNP. |
| total_amount | | M | The amount customer has payed in cash to teller, MUST NOT be 0 . |
| principle_amount | | M | The amount should be credited to |

| | | | |
|------------------|-----|---|--|
| | | | customer's balance account in BNNP, identified by <i>mobile</i> , MUST NOT be 0 . |
| fee_amount | | M | <p>This amount received by PeraHub as fee, may be 0.</p> <p>Anytime, total_amount MUST EQUAL TO principle_amount+fee_amount.</p> |
| user_information | | M | <p>user_information, we can discuss about this later, may need fields like :</p> <ul style="list-style-type: none"> ● Surname ● Givenname ● Middlename ● Nationality ● id ● idtype |
| order_state | int | M | <p>this order state:</p> <ul style="list-style-type: none"> ● init:1 ● succeeded:2 ● closed:9 |
| | | | |

7. Exceptions

8. AccountCheckFile

8.1. PaymentCheckFile

Append A

A.1 TrxCtgyCd

Append B

B.1 SysRtnCd

B.2 BizStsCd

Append C

C.1 Reserved Words