# Gateway Requirements \_v2

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# ChangeLog

* 2017-10-30 ：Created

# Introduction

## Purpose

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

## Target Audience

PeraHub developers And BananaPay Developers.

# Overview

## Communication Protocal

HTTPS POST

# Definitions

## PeraHub

## BananaPay(BNNP)

## Message

# Message Overview

## Message List

### Message Number

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

* XXXX represents the system id, e.g. ‘bnnp’
* 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’

### Message List

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Msg No | MsgName | Msg  Direction | Need Signature | Need statement check |
|  | Bnnp.101.001.01 | Authentication And BindCard | BNNP -> pera hub | Y | N |
|  | Bnnp.201.001.01 | Payment after bind | BNNP->pera hub | Y | Y |
|  | Bnnp.301.001.01 | Refund | BNNp->pera hub | Y | Y |
|  | Bnnp.402.001.01 | Payment to bank | Bbnp->pera | Y | Y |
|  | Bnnp.501.001.01 | Transaction Query | BNNP->pera hub | Y | N |
|  | Bnnp.502.001.01 | Fee Inquiry | Bnnp->pera hub | Y | N |

## Data Type

## Data Requirements

## Encoding

UTF-8

## Reserved

# Message Syntax

## Overview

## How to deal with exceptions

# API Functions

## Authentication And BindCard[Bnnp.101.001.01]

### 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 Sign-up operation.

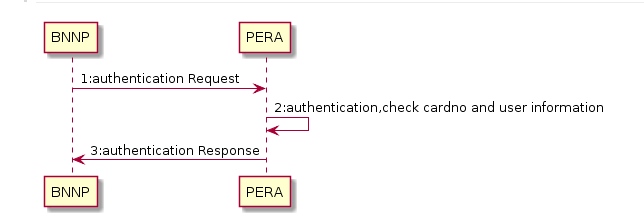
### Sequence diagram

#### Authentication

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

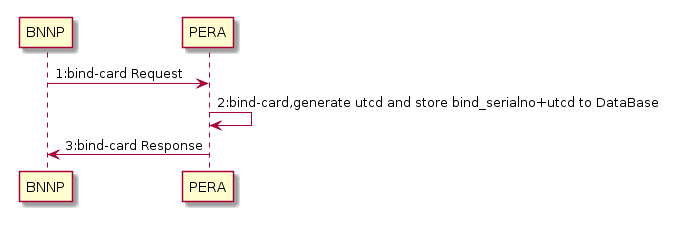
BNNP post user’s form to pera.

Pera check this form is correct or not.



#### Bind-Card

Second, if 6.1.2.1 Authentication is successful, then bnnp will generate a bind\_serialno, and post request data to pera hub again.



### 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 |

### 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 when response to 6.1.2.2.  This field should generated by Perahub, only mapping to bind\_serialno exactly 1:1 . |

## Payment after bind[Bnnp.201.001.01]

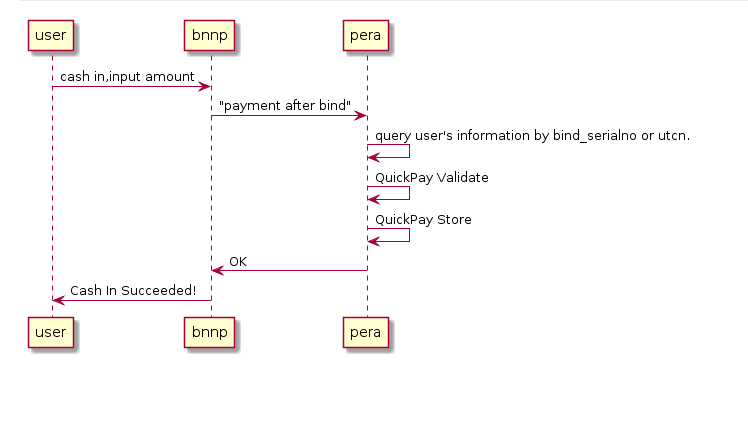
### Features

After user has bind card, bnnp and pera-hub can identify one user with bind\_serialno or utcn.

When user want to pay to bnnp, user submit their request, and bnnp will post request data to perahub, and pera-hub give respone to bnnp.

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

### Sequence diagram



### 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. |

### Response parameters

# Exceptions

# AccountCheckFile

## PaymentCheckFile

# Append A

## TrxCtgyCd

# Append B

## SysRtnCd

## BizStsCd

# Append C

## Reserved Words