# Inbound API

Technical Document for Inbound Remittance

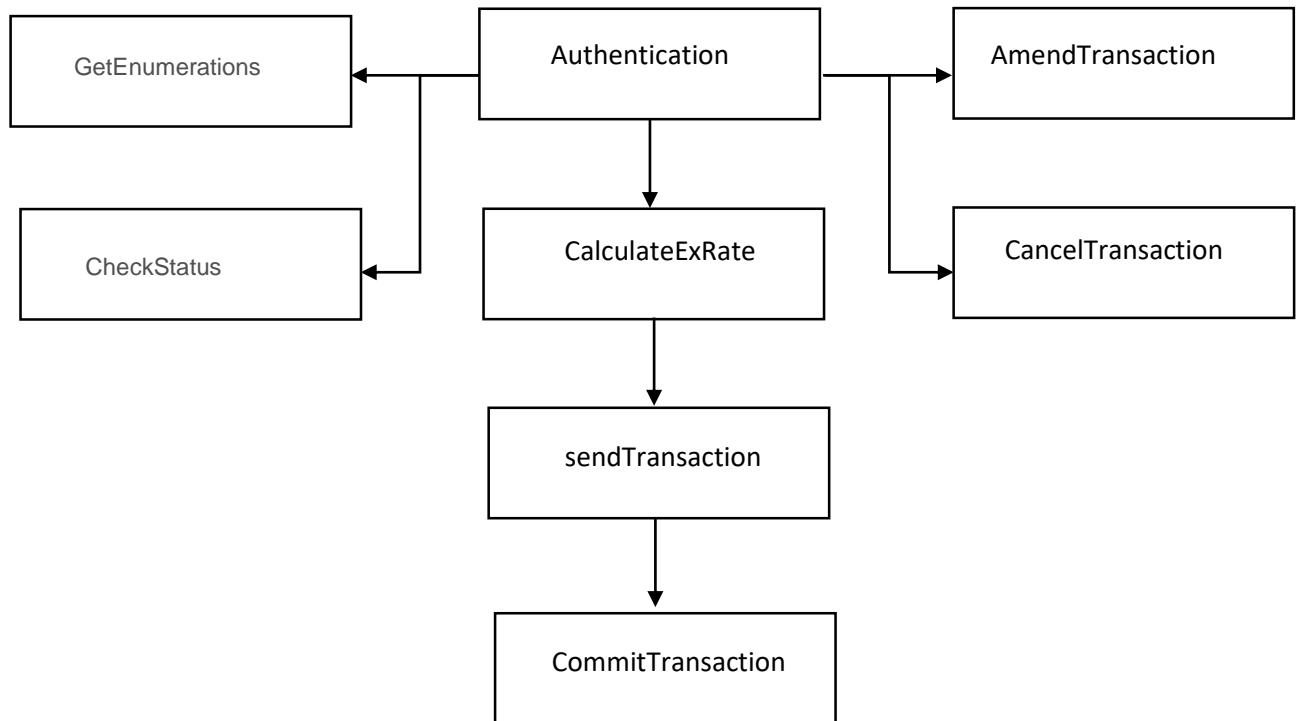## *Version Control*

| Version Number | Description | Author(s) | Release Date |
|:---:|:---|:---|:---:|
| 1.0 | Inbound remittance document created | Chetan Shrestha | 04/29/2019 |

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Inbound Remittance Functional Description

# 1. Authentication

This method gives a GME session which is to be used to invoke other methods. It's a mandatory function.

| Method | URL |
|---|---|
| POST | /api/inbound/authenticate |

**HTTP Request Headers**

| Header | Description |
|---|---|
| Content-Type | application/json |

**Request Parameters**

| Parameter | Type | Description | Mandatory |
|---|---|---|---|
| Username | String | Username of partner | M |
| AuthKey | String | Encrypt the authentication key with AES Algorithm (Keys and iv will be shared) | M |
| AgentCode | String | Partner agent code | M |

*Request Sample*:

```
{
  "Username": "GIBLAPI",
  "AuthKey": "qaPoeT1YoglvWXlUrhl3jw==",
  "AgentCode": "GMEKOREARIA10042"
}
```

**Response Parameters**

| Parameter | Description |
|---|---|
| Code | Error code defines the response status of method |
| Message | Response message that defines the response status of method |
| ProcessIdentifier | The value used while calling other methods |
| Token | Details required for authentication |
| Note | Information for token expiry |

*Response Sample*:

```
{
    "Code": "0",
    "Message": "0:",
    "ProcessIdentifier": "1D4BBBC5-B738-4275-85C8-26F03A93DB24",
    "Detail": {
        "Token":
"o28LSvFt3hUqR9B8i6cdzd7/BL0BI5KTnY8iKbeWKcEfYBerxWh3OpkNLigH63srq324
```

Inbound Remittance Functional Description

```
UgzAsW1cJ+yE7fpiKWfo7yTM8MzsT+ZaWqIzALDUD8cTb/sFj53iqTacgq7zRcgieExPR
KGXb45Lvllrff6Hbge5Of2h3hhm5CpptUpJK4cmXHR1FOtfc902a2kGouE5AkF9PAilip
EmXuZw48S/1M8qQfOb4ZDT0RB7EEabj+57OhOVKLWDyaTJVpnwpURj/bNvKRVY4iVWrUO
m2xSR1waZ+3FV/TTulDrsAkoVpvyN1nIkSTyIJ4q6Jolu07vD5khhXj6gXpWlso8HHOOB
nEwHGwlo8LOWVof3U7I07ROmcrS8PIkaYFE+XiOxFf764YBcFjrLOsmTeCVO0C9GMli+g
xARw6V/Kjh1pbg6ZAp1rgB91kP+gUXB4Hxk/d+uPKBL6v3M6w/IHxwgyLy/fnleXoaDtH
TAWIu03qSMl4RWuSwSAIWn0Yn+XQtA",
        "Note": "Token will only be Valid for 5 minutes."
    }
}
```

## 2. Calculate Exchange rate

The method provides the latest payout agent rate with corresponding payout agent code. It's a mandatory/optional function based on the arrangement with a partner.

| Method | URL |
|--------|-----|
| POST | /api/inbound/CalculateExRate |

**HTTP Request Headers**

| Header | Description |
|--------|-------------|
| Content-Type | application/json |
| Authorization | o28LSvFt3hUqR9B8i6cdzd7/BL0BI5KTnY8iKbeWKcEfYBerxWh3OpkNLigH63srq324 UgzAsW1cJ+yE7fpiKWfo7yTM8MzsT+ZaWqIzALB7z6KR0U9PhExyrubMuFNU5FDcx xnFqhUyWLQcPK/3fdabrg4DnqDrKWww9vHApiE7Syj2SnvNzH6qKBMsaf1xAedm2k i345kxdEq1Ia14ha12jd9Yuji1L3jyjMFhSvoQSsgVXYdDDgezKFmHEJHgVvmbsQ7bMf VKzineCXeCpvKqzAjv9iL965MdcYNAjmpbKj9YP5W/UB9LSwcFe0uRY1jAv9BFVDUA GArMz0QBkStf5ZTafiik2Qkrwzmy1ehKRRnddNLcRLnDQebaKWl3U21RRijItcK+OJch UFCzwJ9ms6QVGDlZv+2gpIH3ODfs26m4ilPIfFcF5pKDkv656S1sTSI/zNbzQahXdZ2LY 9gWlo9Pa2rvTda8xv3XGN9OqDRQ/7lrGuG8qtZnVlvC |
| Client | 39587YT398@FBQOW8RY3#948R7GB@CNEQW987GF87$TD18$1981..919@@##j oghndvberteiru |

**Request Parameters**

| Parameter | Type | Description | Mandatory |
|-----------|------|-------------|-----------|
| Username | String | Username of partner | M |
| AgentCode | String | Partner agent code | M |
| ReceivingCountry | String | Payout country | M |
| SendingCountry | String | Sending country | M |
| ReceivingCurrency | String | Pauout currency code | M |
| Signature | String | Signature of method | M |
| ProcessIdentifier | String | Unique process ID (GUID) from authentication response | M |

Signature: AgentCode + Username + SendingCountry + ReceivingCountry + ReceivingCurrency + ProcessIdentifier

*Request Sample*:

```
{
  "Head": {
    "Username": "GIBLAPI",
    "AgentCode": "GMEKOREARIA10042"
  },
  "Body": {
    "ReceivingCountry": "KR",
    "SendingCountry": "MY",
    "ReceivingCurrency": "KRW"
  },
  "Signature":
"1QS25OE3HI2ZtQ/uXloNOmeSvGnfIixUwhN7F6GQiXAo3EtRDWew1s1M7Kg8b+2jFmyS
c082nzJ/e6GdxbHf6wyQ4x9Z7gPNYujktVcHdD4=",
    "ProcessIdentifier": "92C5D161-4CBB-4DE7-990E-4AF64763E6D7"
}
```

**Response Parameters**

| Parameter | Description |
|---|---|
| Code | Error code defines the response status of method |
| Message | Response message that defines the response status of method |
| SendingCountry | Sending country code |
| ReceivingCountry | Receiving country code |
| ReceivingCurrency | Receiving currency code |
| Rate | Exchange rate for partner |
| ForexSession | Forex session generated during exchange rate calculation |

*Response Sample*:

```
{
    "Code": "IB1013",
    "Message": "IB1013:Ex-Rate calculated successfully",
    "ProcessIdentifier": null,
    "Detail": {
        "SendingCountry": "NP",
        "ReceivingCountry": "KR",
        "ReceivingCurrency": "KRW",
        "Rate": "1142.49",
        "ForexSession": "C80D14E3-0C34-4748-B0FD-3BFB69AA9BF5"
    }
}
```

Inbound Remittance Functional Description

## 3. Create transaction

This method initiates new transaction to the payout agent. It's a mandatory function.

| Method | URL |
|--------|-----|
| POST | /api/inbound/sendTransaction |

**HTTP Request Headers**

| Header | Description |
|--------|-------------|
| Content-Type | application/json |
| Authorization | o28LSvFt3hUqR9B8i6cdzd7/BL0BI5KTnY8iKbeWKcEfYBerxWh3OpkNLigH63srq324 UgzAsW1cJ+yE7fpiKWfo7yTM8MzsT+ZaWqIzALB7z6KR0U9PhExyrubMuFNU5FDcx xnFqhUyWLQcPK/3fdabrg4DnqDrKWww9vHApiE7Syj2SnvNzH6qKBMsaf1xAedm2k i345kxdEq1Ia14ha12jd9Yuji1L3jyjMFhSvoQSsgVXYdDDgezKFmHEJHgVvmbsQ7bMf VKzineCXeCpvKqzAjv9iL965MdcYNAjmpbKj9YP5W/UB9LSwcFe0uRY1jAv9BFVDUA GArMz0QBkStf5ZTafiik2Qkrwzmy1ehKRRnddNLcRLnDQebaKWl3U21RRijItcK+OJch UFCzwJ9ms6QVGDlZv+2gpIH3ODfs26m4ilPIfFcF5pKDkv656S1sTSI/zNbzQahXdZ2LY 9gWlo9Pa2rvTda8xv3XGN9OqDRQ/7lrGuG8qtZnVlvC |
| Client | 39587YT398@FBQOW8RY3#948R7GB@CNEQW987GF87$TD18$1981..919@@##j oghndvberteiru |

**Request Parameters**

| Parameter Group | Parameter | Type | Description | Mandatory |
|-----------------|-----------|------|-------------|-----------|
| Head | Username | String | Username of partner | M |
| | AgentCode | String | Partner agent code | M |
| | TransferReason | String | Purpose of transfer | M |
| | FundSource | String | Source of fund of sender | M |
| | FirstName | String | First name of sender | M |
| | MiddleName | String | Middle name of sender | O |
| | LastName | String | Last name of sender | M |
| Sender | NativeCountry | ISO alpha 2 Country Code [NP,KR] | Native country of sender | M |
| | City | String | Sender's city | O |
| | Address | String | Sender address | M |
| | IdType | String | ID type of sender | M |
| | IdNumber | String | ID number of sender | M |
| | Mobile | String | Mobile number of sender | M |
| | Email | String | Email address of sender | O |
| | Bank | String | Receiver bank code | O |
| | AccountNo | String | Receiver bank account number | O |
| | Relation | String | Relation with sender | M |
| | FirstName | String | First name of beneficiary | M |
| | MiddleName | String | Middle name of beneficiary | O |

| | | | | |
|---|---|---|---|---|
| Receiver | LastName | String | Last name of beneficiary | M |
| | NativeCountry | ISO alpha 2 Country Code [NP,KR] | Native country of beneficiary | O |
| | City | String | Receiver's city | O |
| | Address | String | Receiver address | M |
| | Mobile | String | Receiver mobile number | M |
| Detail | ForexSessionId | String | Forex session generated during exchange rate calculation | M |
| | PartnerTranNo | Number | Partner transaction number | M |
| | PaymentMethod | String | Mode of payment | M |
| | SendingAmount | Money | Sending amount by customer | M |
| | SendingCurrency | ISO alpha 3 Currency Code [NPR,KRW] | Sending currency code | M |
| | SendingCountry | String | Sending Country | M |
| | ReceivingAmount | Money | Receivable amount by the Receiver | M |
| | ReceivingCurrency | ISO alpha 3 Currency Code [NPR,KRW] | Receiving currency code | M |
| | ReceivingCountry | String | Receiving Country | M |
| | ExRate | Money | Exchange rate of transaction | M |
| | UsdAmount | Money | Amount in USD | M |
| | Signature | String | Signature of method | M |
| | ProcessIdentifier | String | Parnter unique process ID (GUID) | M |

Signature:  AgentCode + Username + Sender.FirstName + Sender.MiddleName + Sender.LastName + Sender.NativeCountry + Sender.City + Sender.Address + Sender.IdType + Sender.IdNumber + Sender.Mobile + Sender.Email + Sender.TransferReason + Sender.FundSource + Receiver.FirstName + Receiver.MiddleName + Receiver.LastName + Receiver.NativeCountry + Receiver.City + Receiver.Address + Receiver.IdType + Receiver.IdNumber + Receiver.Mobile + Receiver.Email + Receiver.Bank + Receiver.AccountNo+ Receiver.Relation + Detail.ForexSSessionId + Detail.PartnerTranNo + Detail.PaymentMethod + Detail.SendingAmount+ Detail.SendingCurrency + Detail.SendingCountry + Detail.ReceivingAmount + Detail.ReceivingCurrency  + Detail.ReceivingCountry + Detail.ExRate + Detail.UsdAmount+ProcessIdentifier

Inbound Remittance Functional Description

*Request Sample*:

```
{
  "Head": {
    "Username": "GIBLAPI",
    "AgentCode": "GMEKOREARIA10042"
  },
  "Body": {
    "Sender": {
      "TransferReason": "Loan",
      "FundSource": "BUSINESS",
      "FirstName": "SAROJ",
      "MiddleName": "KUMAR",
      "LastName": "CHALISE",
      "NativeCountry": "NP",
      "City": "KATHMANDU",
      "Address": "SEOUL",
      "IdType": "8008",
      "IdNumber": "12345678987654",
      "Mobile": "9849079513",
      "Email": "saroj.chalise@gmeremit.com"
    },
    "Receiver": {
      "Bank": "034",
      "AccountNo": "98765456787",
      "Relation": "2109",
      "FirstName": "RAM",
      "MiddleName": "KUMAR",
      "LastName": "CHALISE",
      "NativeCountry": "NP",
      "City": "ARUBARI",
      "Address": "SEOUL",
      "Mobile": "9849079513"
    },
    "Detail": {
      "ForexSSessionId": "E1F49678-F67B-4539-A914-3BC1E91582C3",
      "PartnerTranNo": "10",
      "PaymentMethod": "BD",
      "SendingAmount": "1340561.52",
      "SendingCurrency": "NPR",
      "SendingCountry": "NP",
      "ReceivingAmount": "13709880.00",
      "ReceivingCurrency": "KRW",
      "ReceivingCountry": "KR",
      "ExRate": "1142.49",
      "UsdAmount": "12000"
    }
  },
  "Signature":
```
"1QS25OE3HI2ZtQ/uXloNOq1bbY8RBA1CxTkZt+K+IgOhiKcP2adphD+AEAPIdGNVQir4
IPR+vFYYkHkyjAUYsIDJzvUizlhYQx8oIsfAYixTODApf4vPVllgd6Z1N/kgZF9JXP7PM
UwvkjkYZpfCRJj6IJKSjDs+XW/k9mbKMXcjh/GuvnVsdAFI87Hr5kLMO0laYKsaJeGvC4
```

Inbound Remittance Functional Description

```
nKUlZlPZ71eaWRLEcksGxZq0In9fLh5tNzMMxXHWXWr1uu9i9tfr1SsH36VOaGfxpiGJ+
HzFfoquYIJ0styEYrT46cDZuXYEehAxySy83elpBAefLJL4rvBbZ3eDDVSCHcXfRaby0b
NNyrcq4eoRcgQusj37ZG++HAkWkiefG5K/Pcw137",
   "ProcessIdentifier": "92C5D161-4CBB-4DE7-990E-4AF64763E6D7"
}
```

**Response Parameters**

| Parameter | Description |
| --- | --- |
| Code | Error code defines the response status of method |
| Message | Response message that defines the response status of method |
| ProcessIdentifier | Parnter unique process ID (GUID) |
| ControlNo | PIN number of transaction |
| PartnerTranNo | Partner transaction number |

*Response Sample*:

```
{
    "Code": "IB1055",
    "Message": "IB1055:send transaction success",
    "ProcessIdentifier": "92C5D161-4CBB-4DE7-990E-4AF64763E6D7",
    "Detail": {
        "ControlNo": "80176416622",
        "PartnerTranNo": "10"
    }
}
```

Inbound Remittance Functional Description

# 4. Commit Transaction

This method confirms new transaction to the payout agent. It's a mandatory function.

| Method | URL |
|--------|-----|
| POST | /api/inbound/CommitTransaction |

**HTTP Request Headers**

| Header | Description |
|--------|-------------|
| Content-Type | application/json |
| Authorization | o28LSvFt3hUqR9B8i6cdzd7/BL0BI5KTnY8iKbeWKcEfYBerxWh3OpkNLigH63srq324 UgzAsW1cJ+yE7fpiKWfo7yTM8MzsT+ZaWqIzALB7z6KR0U9PhExyrubMuFNU5FDcx xnFqhUyWLQcPK/3fdabrg4DnqDrKWww9vHApiE7Syj2SnvNzH6qKBMsaf1xAedm2k i345kxdEq1Ia14ha12jd9Yuji1L3jyjMFhSvoQSsgVXYdDDgezKFmHEJHgVvmbsQ7bMf VKzineCXeCpvKqzAjv9iL965MdcYNAjmpbKj9YP5W/UB9LSwcFe0uRY1jAv9BFVDUA GArMz0QBkStf5ZTafiik2Qkrwzmy1ehKRRnddNLcRLnDQebaKWl3U21RRijItcK+OJch UFCzwJ9ms6QVGDlZv+2gpIH3ODfs26m4ilPIfFcF5pKDkv656S1sTSI/zNbzQahXdZ2LY 9gWlo9Pa2rvTda8xv3XGN9OqDRQ/7lrGuG8qtZnVlvC |
| Client | 39587YT398@FBQOW8RY3#948R7GB@CNEQW987GF87$TD18$1981..919@@##j oghndvberteiru |

**Request Parameters**

| Parameter Group | Parameter | Type | Description | Mandatory |
|-----------------|-----------|------|-------------|-----------|
| Head | Username | String | Username of partner | M |
| | AgentCode | String | Partner agent code | M |
| Body | ControlNo | String | PIN number of transaction | M |
| | PartnerTranNo | String | Partner transaction number | M |
| | IsApproved | String | Check whether PIN is approved or not | M |
| | Signature | String | Signature of method | M |
| | ProcessIdentifier | String | Parnter unique process ID (GUID) | M |

Signature: AgentCode + Username + ControlNo + PartnerTranNo + IsApproved + ProcessIdentifier

***Request Sample***:

```
{
  "Head": {
    "Username": "GIBLAPI",
    "AgentCode": "GMKOR1056"
  },
  "Body": {
    "ControlNo": "80149918757",
    "PartnerTranNo": "745793572573",
    "IsApproved": true
```

Inbound Remittance Functional Description

```
    },
    "Signature":
"1QS25OE3HI2ZtQ/uXloNOlwGaUxc68ZT9FjhuomhCIhbOrQWeoBti9kiX+PtwwsP8n2D
bOe1G2d9JwQ5C3vJAwGJsfMtncMPLOe0WY32CBk=",
    "ProcessIdentifier": "wertysdfsuiopty7778uiop3456789"
}
```

**Response Parameters**

| Parameter | Description |
|---|---|
| Code | Error code defines the response status of method |
| Message | Response message that defines the response status of method |
| ProcessIdentifier | Parnter unique process ID (GUID) |
| ControlNo | PIN number of transaction |
| PartnerTranNo | Partner transaction number |
| TranDate | Transaction date (YYYY-MM-DD) |
| TranNo | Transaction number |

*Response Sample*:

```
{
    "Code": "IB1055",
    "Message": "IB1055:",
    "ProcessIdentifier": "wertysdfsuiopty7778uiop3456789",
    "Detail": {
        "ControlNo": "80149918757",
        "PartnerTranNo": "745793572573",
        "TranDate": "2019-04-18",
        "TranNo": "10"
    }
}
```

# 5. Modify Transaction

This method updates the beneficiary information of a money transfer registered in the GME service.

| Method | URL |
|---|---|
| POST | /api/inbound/AmendTransaction |

**HTTP Request Headers**

| Header | Description |
|---|---|
| Content-Type | application/json |
| Authorization | o28LSvFt3hUqR9B8i6cdzd7/BL0BI5KTnY8iKbeWKcEfYBerxWh3OpkNLigH63srq324 UgzAsW1cJ+yE7fpiKWfo7yTM8MzsT+ZaWqIzALB7z6KR0U9PhExyrubMuFNU5FDcx xnFqhUyWLQcPK/3fdabrg4DnqDrKWww9vHApiE7Syj2SnvNzH6qKBMsaf1xAedm2k |

Inbound Remittance Functional Description

| | i345kxdEq1Ia14ha12jd9Yuji1L3jyjMFhSvoQSsgVXYdDDgezKFmHEJHgVvmbsQ7bMf VKzineCXeCpvKqzAjv9iL965MdcYNAjmpbKj9YP5W/UB9LSwcFe0uRY1jAv9BFVDUA GArMz0QBkStf5ZTafiik2Qkrwzmy1ehKRRnddNLcRLnDQebaKWl3U21RRijItcK+OJch UFCzwJ9ms6QVGDlZv+2gpIH3ODfs26m4ilPIfFcF5pKDkv656S1sTSI/zNbzQahXdZ2LY 9gWlo9Pa2rvTda8xv3XGN9OqDRQ/7lrGuG8qtZnVlvC |
|---|---|
| Client | 39587YT398@FBQOW8RY3#948R7GB@CNEQW987GF87$TD18$1981..919@@##j oghndvberteiru |

**Request Parameters**

| Parameter Group | Parameter | Type | Description | Mandatory |
|---|---|---|---|---|
| Head | Username | String | Username of partner | M |
| | AgentCode | String | Partner agent code | M |
| | ControlNo | String | PIN number of transaction | M |
| | PartnerTranNo | String | Partner transaction number | M |
| | TranNo | String | Transaction number | M |
| Sender | FirstName | String | First name of sender | O |
| | MiddleName | String | Middle name of sender | O |
| | LastName | String | Last name of sender | O |
| | IdType | String | ID type of sender | O |
| | IdNumber | String | ID number of sender | O |
| Receiver | FirstName | String | First name of beneficiary | O |
| | MiddleName | String | Middle name of beneficiary | O |
| | LastName | String | Last name of beneficiary | O |
| | Bank | String | Receiver bank code | O |
| | AccountNo | String | Receiver bank account number | O |
| | Mobile | String | Receiver mobile number | O |
| | Signature | String | Signature of method | M |
| | ProcessIdentifier | String | Parnter unique process ID (GUID) | M |

Signature:

AgentCode + Username + ControlNo + PartnerTranNo + TranNo + Sender.FirstName + Sender.MiddleName + Sender.LastName + Sender.IdType + Sender.IdNumber + Receiver.FirstName + Receiver.MiddleName + Receiver.LastName + Receiver.Mobile + Receiver.Bank + Receiver.AccountNo + ProcessIdentifier

*Request Sample*:

```
{
  "Head": {
    "Username": "GIBLAPI",
    "AgentCode": "GMEKOREARIA10042"
  },
  "Body": {
    "ControlNo": "80153689586",
```

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```
    "PartnerTranNo": "10",
    "TranNo": "38",
    "Sender": {
      "FirstName": "KAMALAA",
      "MiddleName": "",
      "LastName": "KHATRI",
      "IdType": "8008",
      "IdNumber": "112233"
    },
    "Receiver": {
      "FirstName": "PREYEA",
      "MiddleName": "RANJAN",
      "LastName": "REGMI",
      "Bank": "088",
      "AccountNo": "123456",
      "Mobile": "9849273231"
    }
  },
  "Signature":
"1QS25OE3HI2ZtQ/uXloNOqX6UPmn/D7GmkI8gsX6AGqV6q2ybRFUwB0dnl6hSDieD1ny
/cccCD9bCa9vJvSNR9cCfyuHt/KDXSZCR4mQktq6792hYwXDA9sP4ygXVCd22LuhEkE2v
LQcY2J4r6RLyPK0ZTVRV9AalxIZ1AisPZZ9vYuHgI0kJvVZQEPSBXls",
  "ProcessIdentifier": "7AD5922A-29C0-4425-875D-15B424939DBC"
}
```

**Response Parameters**

| Parameter | Description |
| --- | --- |
| Code | Error code defines the response status of method |
| Message | Response message that defines the response status of method |
| ProcessIdentifier | Parnter unique process ID (GUID) |
| ControlNo | PIN number of transaction |
| PartnerTranNo | Partner transaction number |
| TranNo | Transaction number |
| TranDate | Transaction date (YYYY-MM-DD) |

*Response Sample*:

```
{
    "Code": "IB1062",
    "Message": "IB1062:amend transaction success",
    "ProcessIdentifier": "7AD5922A-29C0-4425-875D-15B424939DBC",
    "Detail": {
        "ControlNo": "80153689586",
        "PartnerTranNo": null,
        "TranNo": "10",
        "TranDate": "4/29/2019 3:39:15 PM"
    }
}
```

Inbound Remittance Functional Description

# 6. Cancel transaction

This method cancels the transaction created for particular payout partner.

| Method | URL |
|--------|-----|
| POST | /api/inbound/CancelTransaction |

**HTTP Request Headers**

| Header | Description |
|--------|-------------|
| Content-Type | application/json |
| Authorization | o28LSvFt3hUqR9B8i6cdzd7/BL0BI5KTnY8iKbeWKcEfYBerxWh3OpkNLigH63srq324 UgzAsW1cJ+yE7fpiKWfo7yTM8MzsT+ZaWqIzALB7z6KR0U9PhExyrubMuFNU5FDcx xnFqhUyWLQcPK/3fdabrg4DnqDrKWww9vHApiE7Syj2SnvNzH6qKBMsaf1xAedm2k i345kxdEq1Ia14ha12jd9Yuji1L3jyjMFhSvoQSsgVXYdDDgezKFmHEJHgVvmbsQ7bMf VKzineCXeCpvKqzAjv9iL965MdcYNAjmpbKj9YP5W/UB9LSwcFe0uRY1jAv9BFVDUA GArMz0QBkStf5ZTafiik2Qkrwzmy1ehKRRnddNLcRLnDQebaKWl3U21RRijItcK+OJch UFCzwJ9ms6QVGDlZv+2gpIH3ODfs26m4ilPIfFcF5pKDkv656S1sTSI/zNbzQahXdZ2LY 9gWlo9Pa2rvTda8xv3XGN9OqDRQ/7lrGuG8qtZnVlvC |
| Client | 39587YT398@FBQOW8RY3#948R7GB@CNEQW987GF87$TD18$1981..919@@##j oghndvberteiru |

**Request Parameters**

| Parameter Group | Parameter | Type | Description | Mandatory |
|-----------------|-----------|------|-------------|-----------|
| Head | Username | String | Username of partner | M |
| | AgentCode | String | Partner agent code | M |
| Body | ControlNo | String | PIN number of transaction | M |
| | PartnerTranNo | String | Partner transaction number | M |
| | TranNo | String | Transaction number | M |
| | TranDate | String | Transaction cancel date (YYYY-MM-DD) | M |
| | Reason | String | Transaction cancel reason | M |
| | Signature | String | Signature of the method | M |
| | ProcessIdentifier | String | Parnter unique process ID (GUID) | M |

Signature: AgentCode + Username + ControlNo + PartnerTranNo + TranNo + TranDate + Reason + ProcessIdentifier

***Request Sample***:

```
{
  "Head": {
    "Username": "GIBLAPI",
    "AgentCode": "GMEKOREARIA10042"
  },
```

Inbound Remittance Functional Description

```
  "Body": {
    "ControlNo": "80153689586",
    "PartnerTranNo": "10",
    "TranNo": "38",
    "TranDate": "2019-04-26",
    "Reason": "Mistake transaction"
  },
  "Signature":
"1QS25OE3HI2ZtQ/uXloNOqX6UPmn/D7GmkI8gsX6AGqn1VpbsW9gaRsRt6XKbjGKQ7qo
A8Qcrwy/y5LqSWbALR3iyii4Sl7amOksxahc2B1f3rfN/qCKDBLxvw74joywNfvFT9/qR
ZU6Zu/8GM6lpA==",
    "ProcessIdentifier": "7AD5922A-29C0-4425-875D-15B424939DBC"
}
```

**Response Parameters**

| Parameter | Description |
|---|---|
| Username | Username of the partner |
| AgentCode | Agent code of partner |
| ControlNo | Pin number |
| PartnerTranNo | Partner transaction number |
| TranNo | Transaction number |
| TranDate | Transaction created date (YYYY-MM-DD) |
| Reason | Reason of cancel |
| Signature | Signature of the method |
| ProcessIdentifier | Parnter unique process ID (GUID) |

*Response Sample*:

```
{
    "Code": "IB1066",
    "Message": "IB1066:cancel transaction success",
    "ProcessIdentifier": "7AD5922A-29C0-4425-875D-15B424939DBC",
    "Detail": {
        "ControlNo": "80153689586",
        "PartnerTranNo": "10",
        "TranNo": "38",
        "TranDate": "2019-04-26"
    }
}
```

Inbound Remittance Functional Description

# 7. Check transaction status

This method gives details status of transaction.

| Method | URL |
|--------|-----|
| POST | /api/inbound/CheckStatus |

**HTTP Request Headers**

| Header | Description |
|--------|-------------|
| Content-Type | application/json |
| Authorization | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1bmlxdWVfbmFtZSI6InNhcm9qIiwiR3VpZCI6ImJiN2MwYjJkLTFjOTktNDc3ZS1iOTg2LTU5NjdkODc3ZTZiNSIsIm5iZiI6MTU1NDk2ODIzOSwiZXhwIjoxNTU1NTY4MjM5LCJpYXQiOjE1NTQ5NjgyMzksImlzcyI6Imh0dHA6Ly9sb2NhbGhvc3Q6NTk0MjAiLCJhdWQiOiJodHRwOi8vbG9jYWxob3N0OjU5NDIwIn0.1o1bxos13OYuOpp7cdOSa8BWk4CAEPP2TwiE0DKC5ng |
| Client | 39587YT398@FBQOW8RY3#948R7GB@CNEQW987GF87$TD18$1981..919@@##joghndvberteiru |

**Request Parameters**

| Parameter Group | Parameter | Type | Description | Mandatory |
|-----------------|-----------|------|-------------|-----------|
| Head | Username | String | Username of partner | M |
| | AgentCode | String | Partner agent code | M |
| Body | ControlNo | String | PIN number of transaction | M |
| | PartnerTranNo | String | Partner transaction number | M |
| | TranNo | String | Transaction number | M |
| | Signature | String | Signature of the method | M |
| | ProcessIdentifier | String | Parnter unique process ID (GUID) | M |

Signature: AgentCode + Username + ControlNo + PartnerTranNo +TranNo+ProcessIdentifier

***Request Sample***:

```
{
  "Head": {
    "Username": "GIBLAPI",
    "AgentCode": "GMEKOREARIA10042"
  },
  "Body": {
    "ControlNo": "80176416622",
    "PartnerTranNo": "10",
    "TranNo": "39"
  },
  "Signature":
"1QS25OE3HI2ZtQ/uXloNOlwGaUxc68ZT9FjhuomhCIiwx5GPzEfD/6DEWhKk/E/drMk3
KtWlfyMUXa/rpzhNWeo+0WHPL6rsRy26Vosp5Jo=",
```

Inbound Remittance Functional Description

```
    "ProcessIdentifier": "92C5D161-4CBB-4DE7-990E-4AF64763E6D7"
}
```

**Response Parameters**

| Parameter | Description |
|---|---|
| Code | Error code defines the response status of method |
| Message | Response message that defines the response status of method |
| ProcessIdentifier | Parnter unique process ID (GUID) |
| ControlNo | PIN number of transaction |
| PartnerTranNo | Partner transaction number |
| Status | Transaction status |
| TranDate | Transaction created date (YYYY-MM-DD) |
| PaidDate | Transaction paid date (YYYY-MM-DD) |
| CancelRequestDate | Date requested for cancel of transaction (YYYY-MM-DD) |
| CancelledDate | Transaction cancelled date (YYYY-MM-DD) |

*Response Sample*:

```
{
    "Code": "IB1061",
    "Message": "IB1061:check status success",
    "ProcessIdentifier": "92C5D161-4CBB-4DE7-990E-4AF64763E6D7",
    "Detail": {
        "ControlNo": "80176416622",
        "PartnerTranNo": "10",
        "Status": "UNPAID",
        "TranDate": "2019-04-25",
        "PaidDate": "",
        "CancelRequestDate": "",
        "CancelledDate": ""
    }
}
```

Inbound Remittance Functional Description

# 8. Get Enumerations

This method pulls the list of values available in particular selection parameters.

| Method | URL |
|--------|-----|
| POST | /api/inbound/GetEnumerations |

**HTTP Request Headers**

| Header | Description |
|--------|-------------|
| Content-Type | application/json |
| Authorization | o28LSvFt3hUqR9B8i6cdzd7/BL0BI5KTnY8iKbeWKcEfYBerxWh3OpkNLigH63srq324 UgzAsW1cJ+yE7fpiKWfo7yTM8MzsT+ZaWqIzALB7z6KR0U9PhExyrubMuFNU5FDcx xnFqhUyWLQcPK/3fdabrg4DnqDrKWww9vHApiE7Syj2SnvNzH6qKBMsaf1xAedm2k i345kxdEq1Ia14ha12jd9Yuji1L3jyjMFhSvoQSsgVXYdDDgezKFmHEJHgVvmbsQ7bMf VKzineCXeCpvKqzAjv9iL965MdcYNAjmpbKj9YP5W/UB9LSwcFe0uRY1jAv9BFVDUA GArMz0QBkStf5ZTafiik2Qkrwzmy1ehKRRnddNLcRLnDQebaKWl3U21RRijItcK+OJch UFCzwJ9ms6QVGDlZv+2gpIH3ODfs26m4ilPIfFcF5pKDkv656S1sTSI/zNbzQahXdZ2LY 9gWlo9Pa2rvTda8xv3XGN9OqDRQ/7lrGuG8qtZnVlvC |
| Client | 39587YT398@FBQOW8RY3#948R7GB@CNEQW987GF87$TD18$1981..919@@##j oghndvberteiru |

**Request Parameters**

| Parameter Group | Parameter | Type | Description | Mandatory |
|-----------------|-----------|------|-------------|-----------|
| Head | Username | String | Username of partner | M |
| | AgentCode | String | Partner agent code | M |
| Body | Type | String | Type of enumeration | M |
| | Signature | String | Signature of method | M |
| | ProcessIdentifier | String | Parnter unique process ID (GUID) | M |

Signature: AgentCode + Username + Type + ProcessIdentifier

*Request Sample*:

**ID Type:**

```
{
  "Head": {
    "Username": "GIBLAPI",
    "AgentCode": " GMEKOREARIA10042 "
  },
  "Body": {
    "Type": "idType"
  },
```

Inbound Remittance Functional Description

```
  "Signature": "
1QS25OE3HI2ZtQ/uXloNOsgvZPERsbF0cJmaQ9enhIJwcO7kM0Sp7GXxmtBOVczP7mWkg
PROA4ZkxUmF+xzjQ0498oWWSpbbfj32PfNVdW0= ",
  "ProcessIdentifier": "wertysdfsuiopty7778uiop3456789"
}
```

**Relation:**

```
{
  "Head": {
    "Username": "GIBLAPI",
    "AgentCode": "GMEKOREARIA10042"
  },
  "Body": {
    "Type": "relation"
  },
  "Signature":
"1QS25OE3HI2ZtQ/uXloNOsgvZPERsbF0cJmaQ9enhIJwcO7kM0Sp7GXxmtBOVczP7mWk
gPROA4ZkxUmF+xzjQ0498oWWSpbbfj32PfNVdW0=",
  "ProcessIdentifier": "1D4BBBC5-B738-4275-85C8-26F03A93DB24"
}
```

**Payment method:**

```
{
  "Head": {
    "Username": "GIBLAPI",
    "AgentCode": "GMEKOREARIA10042"
  },
  "Body": {
    "Type": "paymentmethod"
  },
  "Signature":
"1QS25OE3HI2ZtQ/uXloNOrI/M5yHH1Q/eSHWmX3QATAj6YItot7qceot3ZpD7YoSIxfy
ROszJLOAZOzKuN0QfKGK1OszFkjrZbZcBiJG5KM=",
  "ProcessIdentifier": "1D4BBBC5-B738-4275-85C8-26F03A93DB24"
}
```

**Bank:**

```
{
  "Head": {
    "Username": "GIBLAPI",
    "AgentCode": "GMEKOREARIA10042"
  },
  "Body": {
    "Type": "bank"
  },
```

Inbound Remittance Functional Description

```
    "Signature":
"1QS25OE3HI2ZtQ/uXloNOj+hJlqxqs4y8ChhaUeboS7ltrcFT0xMEg1HRtiRrFH/osUH
ijZDq2xrYWx24PfJeQ==",
    "ProcessIdentifier": "1D4BBBC5-B738-4275-85C8-26F03A93DB24"
}
```

**Response Parameters**

| Parameter | Description |
|---|---|
| Code | Error code defines the response status of method |
| Message | Response message that defines the response status of method |
| ProcessIdentifier | Parnter unique process ID (GUID) |
| Enums | Enumerations |

*Response Sample*:
**ID Type:**

```
{
    "Code": "IB1064",
    "Message": "IB1064:",
    "ProcessIdentifier": "wertysdfsuiopty7778uiop3456789",
    "Detail": {
        "Enums": {
            "1302": "Alien Registration Card",
            "8008": "National ID",
            "10997": "Passport",
            "11020": "Driving License"
        }
    }
}
```

**Relation:**

```
{
    "Code": "IB1064",
    "Message": "IB1064:get enum success",
    "ProcessIdentifier": "1D4BBBC5-B738-4275-85C8-26F03A93DB24",
    "Detail": {
        "Enums": {
            "2101": "Father",
            "2102": "Mother",
            "2103": "Grand Father",
            "2104": "Grand Mother",
            "2105": "Husband",
            "2106": "Wife",
            "2107": "Father in Law",
            "2108": "Mother in Law",
```

Inbound Remittance Functional Description

```
            "2109": "Brother",
            "2110": "Brother in Law",
            "2111": "Sister",
            "2112": "Sister in Law",
            "2113": "Son",
            "2114": "Daughter",
            "2115": "Uncle",
            "2116": "Aunt",
            "2117": "Cousin",
            "2120": "Friend",
            "2121": "Self",
            "10998": "Daughter in Law"
        }
    }
}
```

**Payment method:**

```
{
    "Code": "IB1064",
    "Message": "IB1064:get enum success",
    "ProcessIdentifier": "1D4BBBC5-B738-4275-85C8-26F03A93DB24",
    "Detail": {
        "Enums": {
            "BD": "Bank Deposit",
            "CP": "Cash Payment",
            "D2D": "Home Delivery",
            "EC": "Card Payment",
            "MW": "Mobile Wallet"
        }
    }
}
```

**Bank:**

```
{
    "Code": "IB1064",
    "Message": "IB1064:get enum success",
    "ProcessIdentifier": "1D4BBBC5-B738-4275-85C8-26F03A93DB24",
    "Detail": {
        "Enums": {
            "088": "Shinhan Bank",
            "081": "KEB Hana Bank",
            "071": "Korea Post(Epost)",
            "055": "Deutsche Bank",
            "054 ": "HSBC",
            "048": "Credit Union (Shinhyup)",
            "045": "Korea Federation of Community Credit
Cooperatives(KFCC)",
            "039": "Kyongnam Bank",
```

Inbound Remittance Functional Description

```
            "037": "Jeonbuk Bank(JB)",
            "035": "Jeju Bank",
            "034": "Kwangju Bank(KJ)",
            "032": "Busan Bank(BNK)",
            "031": "Daegu Bank(DGB)",
            "027": "Citibank Korea",
            "023": "Standard Chartered Korea(SC First)",
            "020": "Woori Bank",
            "011": "Nonghyup Bank(NH)",
            "007": "Suhyup Local Cooperatives",
            "004": "Kookmin-Bank(KB)",
            "003": "Industrial Bank of Korea(IBK)",
            "002": "Korea Development Bank(KDB)"
        }
    }
}
```

Inbound Remittance Functional Description

# 9. Error code

| Code | Message |
|------|---------|
| IB1000 | Valid Parameters |
| IB1001 | Username is empty. |
| IB1002 | Password is empty. |
| IB1003 | AgentCode is empty. |
| IB1004 | Invalid credentials, authentication failed. |
| IB1005 | Invalid request. Please check your request parameter. |
| IB1006 | Sending country is either empty or of invalid length |
| IB1007 | Receiving country is either empty or of invalid length |
| IB1008 | Receiving currency is either empty or invalid. Valid value includes ISO Alpha-3(USD) |
| IB1009 | Receiving amount is either empty or invalid. Valid value(########.##) |
| IB1010 | Sending amount is either empty or invalid. Valid value(########.##) |
| IB1011 | Sending currency is either empty or invalid. Valid value includes ISO Alpha-3(USD) |
| IB1012 | Invalid Process identifier |
| IB1013 | Ex-Rate calculated successfully |
| IB1014 | invalid sender firstname |
| IB1015 | invalid sender middlename |
| IB1016 | invalid sender lastname |
| IB1017 | invalid sender nativecountry |
| IB1018 | invalid sender city |
| IB1019 | invalid sender address |
| IB1020 | invalid sender idtype |
| IB1021 | invalid sender idnumber |
| IB1022 | invalid sender mobile |
| IB1023 | invalid sender email |
| IB1024 | invalid receiver firstname |
| IB1025 | invalid receiver middlename |
| IB1026 | invalid receiver lastname |
| IB1027 | invalid receiver nativecountry |
| IB1028 | invalid receiver city |
| IB1029 | invalid receiver address |
| IB1030 | invalid receiver idtype |
| IB1031 | invalid receiver idnumber |
| IB1032 | invalid receiver mobile |
| IB1033 | invalid receiver email |
| IB1034 | invalid transfer reason |
| IB1035 | invalid fund source |
| IB1036 | invalid receiver bank |
| IB1037 | invalid receiver bank branch |
| IB1038 | invalid receiver account no |
| IB1039 | invalid receiver relationship |
| IB1040 | invalid forex session |

Inbound Remittance Functional Description

| | |
|---|---|
| IB1041 | invalid partner tran no |
| IB1042 | invalid payment method |
| IB1043 | invalid usd amount |
| IB1044 | invalid exrate |
| IB1045 | invalid tran no |
| IB1046 | invalid cancel reason |
| IB1047 | invalid tran date |
| IB1048 | amend transaction fail |
| IB1049 | invalid enums requested |
| IB1050 | no rate found |
| IB1051 | error calculation |
| IB1052 | sender missing |
| IB1053 | receiver missing |
| IB1054 | tran detail missing |
| IB1055 | send transaction success |
| IB1056 | send transaction fail |
| IB1057 | invalid control no |
| IB1058 | invalid commit txn mode |
| IB1059 | invalid signature |
| IB1060 | check status error |
| IB1061 | check status success |
| IB1062 | amend transaction success |
| IB1063 | get enum failed |
| IB1064 | get enum success |
| IB1065 | cancel transaction fail |
| IB1066 | cancel transaction success |
| 0 | Operation successfully executed. |
| 1 | Failed to executed operation successfully. |
| 2 | Unauthorised access. |

Inbound Remittance Functional Description