

UPI API Document

V1.4

Olive

Name	Version No	Date	Description
Shareit API Doc's	1.0	04-jun-2018	1) Vpa verify(/vpa/verify) call appid added in request. 2) Registration API response object data changed.
Shareit API Doc's	1.1	06-jun-2018	1) setonevpaoneaccount (customer/setonevpaoneaccount) call appid added in request.
Shareit API Doc's	1.2	15-jun-2018	2) Raise query(/txn/query) call mobilenumber added in TranHistory request.
Shareit API Doc's	1.3	14-nov-2018	Listkeys API added
Shareit API Doc's	1.4	10-Jan-2019	Encryption Accountnumber added in all request and FetchAccount Response.

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1.Registration			
Registers the customer in UPI Switch and device binding verification			
POST: /v2/customer/regdirect			Registration
Input Parameters:			
	Field	Type	Description
	customerid(O)	String(12)	Customer mobile number (start with 91)
	mobilenumber(O)	String(12)	Customer mobile number (start with 91)
	name(M)	String(40)	Customer Name
	smstext(M)	String(100)	SMS data sent by app via user's phone
deviceInfo			
	app(M)	String(100)	UPI playstore registered appid, same appid used to generate in token calls.
	capability(O)	String	Ex: 011001

	gcmid(O)	String	GCMID generated by google
	geocode(O)	String	Latitude and Longitude Ex: 12.9667,77.5667
	id(M)	String(15-35)	Device IMEI number
	ip(O)	String(9-15)	Source IP address. Ex: 123.456.123.123
	location(O)	String(3-20)	Ex: Sarjapur Road, Bangalore, KA, IN
	mobile(M)	String(12)	Initiator mobile number Ex: 91xxxxxxxxxx
	os(O)	String(..20)	Device OS Ex: Android 4.4
	telecom(C)	String	(mandatory for USSD)
	version(O)	String	App version Ex: v1.0

OutPut Parameters :

SN	Field	Type	Description
	code(M)	String(1..4)	Response code Ex: 00
	result(M)	String	Success / Failure
	data(O)	Object	{ "name": "Siva", "customerid": "919502486564", "vpa": "kumar@kotak", "mobilenumber": "919502486564", "action": "string", "type": "num", "deviceInfo": { "mobile": "919502486564", "geocode": "12.9667,77.5667", "location": "hyderabad", "ip": " 123.456.123.123", "type": "MOB", "id": "358188078321461", "os": "Android 4.4", "app": "com.shareit.upi.sdk",

			<pre> "capability": "011001", "gcmid": "string" }, "smstext": "SMS data sent by app via user's phone" } </pre>
--	--	--	--

API Error Codes:

Code	Description
00	Success
99	TimeOut
98	Mandatory parameter or data missing
066	sms text pending

Example:

URL:

<https://<ip>:<port>/v4/customer/regdirect>

Request Body:

```

{
  "customerid": "919000XXXX",
  "deviceInfo": {
    "app": "com.olive.axis",
    "capability": "011001",
    "gcmid": "",
    "geocode": "12.9667,77.5667",
    "id": "123456789",
    "ip": "127.0.0.2",
    "location": "Sarjapur Road, Bangalore, KA, IN",
    "mobile": "919000XXXX",
    "os": "Android 4.4",
    "version": "1.0"
  },
  "mobilenumber": "919000XXXX",
  "name": "abc",
  "smstext": "AXI75ghghfdddf"
}

```

ResponseBody:

```

{
  "code": "00",
  "result": "success",
  "data": {
    "customerid": "919000342322",
    "deviceInfo": {
      "app": "com.olive.axis",
      "capability": "011001",
      "gcmid": "",
      "geocode": "12.9667,77.5667",
      "id": "123456789",
      "ip": "127.0.0.2",
      "location": "Sarjapur Road, Bangalore, KA, IN",
      "mobile": "919000342322",
      "os": "Android 4.4",
      "version": "1.0"
    },
    "mobilenumber": "919000342322",
    "name": "Ravi"
  }
}

```

2.Get Token

Get the token from NPCI and to register with NPCI common library.

POST: v1/token?customerid=91900xxx&type=intial&challenge=challenge

Get Token

Input Parameters:

	Field	Type	Description
	customerid	String(12)	Customer mobile number.
	type	String(20)	Type of token (Initial, Rotate)
	challenge(M)	String(999)	Challenge returned from Client Library

OutPut Parameters :

	Field	Type	Description
	code(M)	String	Response code Ex: 00
	result(M)	String	Success / Failure
	data(M)	String	token received from NPCI

API Error Codes:

Code	Description
00	Success
99	TimeOut

- Challenge will be generated at mobile app using NPCI Common Library

Example:

URL:

[https://<ip>:<port>/v1/token?customerid="919000012345"&type="intial"&challenge="chalenge"](https://<ip>:<port>/v1/token?customerid=)

Request Body:

```
{
  "customerid": "919000012345",
  "type": "intial",
  "Challenge": "challenge data"
}
```

ResponseBody:

```
{
  "code": "00",
  "result": "success",
  "data": "rennYXUY5TyEq6liP39N/56D7IW3OkvCiykiuhGcgUc="
}
```


3.All Accounts

List of added accounts based on customerid.

POST: /v4/customer/allaccounts?appid=com.xxxx.xxxxx

All Accounts

Input Parameters:

	Field	Type	Description
	customerid(M)	String	Customer mobile number
device			
	app(M)	String(100)	UPI playstore registered appid, same appid used to generate in token call
	capability(O)	String	Ex: 011001
	gcmid(O)	String	GCMID generated by google
	geocode(O)	String	Longitude and Latitude Ex: 12.9667,77.5667
	id(M)	String(15-35)	Device IMEI code
	ip(O)	String(9-15)	Source IP address Ex: 123.456.123.123
	location(O)	String(3-20)	Ex: Sarjapur Road, Bangalore, KA, IN
	mobile(M)	String(12)	for the initiator (Example 91xxxxxxxxxx)
	os(O)	String(..20)	Device OS ex: Android 4.4

OutPut Parameters :

	Field	Type	Description
--	-------	------	-------------

	code	String	00
	result	String	Success
Data : AccountResp		<List of Accounts>	
	bankCode	String	Bank IIN
	bankName	String	Bank Name
AccountResp.Accounts			
	name(M)	String	Account holder name
	mmid (M)	String	Mobile Money identifier
	aeba(M)	String	Aadhar enabled bank enabled
	mbeba(M)	String	Mobile banking enabled bank enabled
	accRefNumber(M)	String	Account reference number
	ifsc(M)	String	Bank IFSC code
	masked(M)	String	Masked account number. Ex: XXXXXX8970
	status (O)	String	Status of the account.
	type(M)	String	Type of Account
	vpa(M)	String	Virtual Payment Address of Customer
	dlength(M)	String	UPI PIN length
	dtype(M)	String	UPI PIN input Type (Numeric/Alphabetic/Alpha)
	atmpinlength(M)	String	ATM pin length
	atmpinFormat(M)	String	ATM pin format(FORMAT1/FORMAT2)
	otplength(M)	String	OTP length
	otpformat(M)	String	OTP format
API Error Codes:			
Code		Description	
0		Success	

99	TimeOut
91	Mandatory parameter or data missing

Example:

URL: `https://<ip>:<port>/v4/customer/allaccounts?appid=com.xxxxxx.xxxx`

Request Body:

```
{
  "customerId": "919000XXXXX",
  "device": {

    "app": "com.olive.axis",
    "capability": "011001",
    "gcmid": "",
    "geocode": "12.9667,77.5667",
    "id": "123456789",
    "ip": "127.0.0.2",
    "location": "Sarjapur Road, Bangalore, KA, IN",
    "mobile": "919000XXXXX",
    "os": "Android 4.4"

  }
}
```

ResponseBody:

```
{
  "code": "00",
  "result": "success",
  "data": [
    {
      "bankCode": "607420",
      "bankName": "Kotak mahindra Bank ltd",
      "accounts": [
        {
          "name": "XXXXXX XXXXX",
          "mmid": null,
          "uidnum": null,
          "iin": "607420",
          "aeba": "N",
          "mbeba": "N",
          "accRefNumber": "vo5AT/zBRywff48ugUj368F3hTg=",
          "type": "SAVINGS",
          "vpa": "null",

```

```

    "status": "R",
    "maskedAccnumber": "XXXXXXXXX020774",
    "ifsc": "KKBK0000001",
    "partyId": null,
    "vpas": null,
    "dLength": "6",
    "dType": "NUM",
    "atmpinFormat": null,
    "atmpinlength": "4",
    "otpFormat": null,
    "otpLength": "6"
  },
  {
    "name": "POOJA ASHOK CHHATWANI",
    "mmid": null,
    "uidnum": null,
    "iin": "607420",
    "aeba": "N",
    "mbeba": "Y",
    "accRefNumber": "vsP58drZzm3dX2YeBpLT1zVjSIw=",
    "type": "SAVINGS",
    "vpa": "kumaruat2@kotak",
    "status": "A",
    "maskedAccnumber": "XXXXXXXXX172660",
    "ifsc": "KKBK0000646",
    "partyId": null,
    "vpas": null,
    "dLength": "6",
    "dType": "NUM",
    "balance": "516,628.36",
    "balTime": "04-25-2018 02:05:24",
    "atmpinFormat": null,
    "atmpinlength": "4",
    "otpFormat": null,
    "otpLength": "6"
  }
]
}

```

4.Fetch Accounts

List of Accounts linked to the mobile number from a selected Bank.

POST: /v4/customer/fetchaccounts?appid=xxxxxxxxxx

Fetch Accounts

Input Parameters:

	Field	Type	Description
	bankId	String	Bank iin of the customer trying to fetch
	CustomerId	String	919000xxxxx
	txnId	String (AN35)	AXB2344545xcxxbbv

device

	app(M)	String	UPI playstore registered appid, same appid used to generate in token call
	capability(O)	String	Ex: 011001
	gcmid(O)	String	GCMID generated by google
	geocode(O)	String	Ex: 12.9667,77.5667
	id(M)	String	Device IMEI code
	ip(O)	String	Ex: 123.456.123.123
	location(O)	String	Ex: Sarjapur Road, Bangalore, KA, IN
	mobile(M)	String	for the initiator (Example 91xxxxxxxxxx)
	os(O)	String	Device OS ex: Android 4.4
	telecom(O)	String	(It is mandatory for USSD)
	version(O)	String	App version

OutPut Parameters :

	Field	Type	Description
	code	String	00
	result	String	Success/Failure
Data : AccountResp <List of Accounts>			
	bankCode	String	Bank IIN
	bankName	String	Bank Name
AccountResp.Accounts			
	name(M)	String	Account holder name
	mmid (M)	String	Mobile Money identifier
	aeba(M)	String	Aadhar enabled bank enabled
	mbeba(M)	String	Mobile banking enabled bank enabled
	accRefNumber(M)	String	Account reference number
	ifsc(M)	String	Bank ifsc Code
	masked(M)	String	Masked with special character 'X' for leftmost account number digits.
	status (M)	String	Status of the account
	type(M)	String	Type of Account
	vpa(M)	String	Virtual Payment Address of Customer
	dlength	String	length
	dtype(M)	String	Type
	otplength(M)	String	OTP length
	otpformat	String	OTP format
	balance	String	Account Balance

API Error Codes:

Code	Description
------	-------------

0	Success
91	TimeOut
98	Mandatory parameter or data missing
01	Customer id & mobile no miss matched
05	Expired account fetch request
O80	DataBase Error
O60	Error

Example:

URL : https://<ip>:<port>/v4/customer/fetchaccounts?appid=com.xxxx.xxxx

Request Body:

```
{
  "bankId": "421234",
  "customerId": "919000xxxx",
  "device": {
    "app": "com.olive.axis",
    "capability": "011001",
    "gcmid": "",
    "geocode": "12.9667,77.5667",
    "id": "123456789",
    "ip": "127.0.0.2",
    "location": "Sarjapur Road, Bangalore, KA, IN",
    "mobile": "919000XXXX",
    "os": "Android 4.4",
    "version": "1.0"
  },
  "txnId": "AXBdcbs676575a64d65d"
}
```

ResponseBody:

```
{
  "code": "00",
  "result": "success",
  "data": [
```

```

{
  "bankCode": "607420",
  "bankName": "Kotak mahindra Bank ltd",
  "accounts": [

    {
      "name": "POOJA ASHOK CHHATWANI",
      "mmid": null,
      "uidnum": null,
      "iin": "607420",
      "aeba": "N",
      "mbeba": "N",
      "accRefNumber": "vo5AT/zBRywff48ugUj368F3hTg=",
      "type": "SAVINGS",
      "vpa": "",
      "status": "R",
      "maskedAccnumber": "XXXXXXXXX172660",
      "ifsc": "KKBK0000646",
      "dLength": "6",
      "dType": "NUM",
      "balance": "",
      "balTime": "",
      "atmpinFormat": null,
      "atmpinlength": "4",
      "otpFormat": NUM,
      "otpLength": "6"
    }
  ]
}

```

5.Set default Account for VPA

Customer will set VPA to one of the account

POST: /v4/customer/setonevpaoneaccount?appid=xxxxxxxxx

set default account for vpa

Input Parameters:

	Field	Type	Description
	ACCOUNTNO(M)	String	Customer Account Number
	APPID(M)	String	UPI playstore registered appid, same appid used to generate in token call
	IFSC(M)	String	Account IFSC code
	IIN(M)	String	IIN of Bank
	MOBILENUMBER(M)	String	Customer Mobile Number
	VPA(M)	String	Virtual Payment Address

OutPut Parameters :

	Field	Type	Description
	code(M)	String	00
	result(M)	String	Success/Failure
	data(O)	Object	---

API Error Codes:

Code	Description
00	Success
91	TimeOut
04	System Error
01	VPA Not Available
02	Account Not Available
OV10	VPA Already Used

Example:

URL : `https://<ip>:<port> /v4/customer/setonevpaoneaccount?appid=com.xxxx.xxxx`

Request Body:

```
{
  "ACCOUNTNO": "vsP58drZzm3dX2YeBpLT1zVjSIw=",
  "APPID": "com.olive.axis",
  "IFSC": "ABCXXXXX"(First Three Digits are Bank Code),
  "IIN": "xxxxxxx",
  "MOBILENUMBER": "919000012XXX",
  "VPA": "abc@axis"
}
```

ResponseBody:

```
{
  "code": "00",
  "result": "success",
  "data": null
}
```

6.SET/RESET UPI PIN

SET/RESET MPIN/UPIN of selected bank account.

POST:/v1/customer/accounts/mobreg?customerid=9190000XXX5

SET/RESET UPI PIN

Input Parameters

	Field	Type	Description
	bank(M)	String	Bank IIN
	customerid(M)	String	Customer mobile number
	txnId(M)	String	Unique transaction id 35 digit
	card(M)	String	Last 6 digit card number
	expiry(M)	String	Expiry date
	regtype(M)	String	N/R(N-New , R- Reset N is default value)
ac:			
	accRefNumber(M)	String	Account number
	type(M)	String	Account Type
	aeba(O)	String	Aadhaar banking enabled EX: Y N
	ifsc(M)	String	Account IFSC code
	maskedAccnumber(O)	String	Account number with hash
	mbeba(O)	String	Mobile banking enabled Ex: Y N
	mmid(O)	String	IMPS payment mmid
	name(M)	String	Customer Account Name
	uidnum(O)	String	User Identification Number
	iin(O)	String	issuer identification number
	vpa(M)	String	Virtual Payment Address
	status(O)	String	Status of the transaction
	dLength(O)	String	Account number Mpin length
	dType(O)	String	Account number Mpin length
	balance(O)	String	Account balance

	balTime(O)	String	Last refreshed balance time
	atmpinFormat(O)	String	ATM pin format
	atmpinlength(O)	String	Length of ATM pin
mpincred			
	subType(M)	String	MPIN
	type(M)	String	PIN
mpincred:data			
	code(M)	String	NPCI common library code value
	ki(M)	String	NPCI common library ki value
	skey(M)	String	NPCI common library skey
	type(M)	String	NPCI common library type
	pid(M)	String	NPCI common library pid
	hmac(M)	String	key
	encryptedBase64String(M)	String	Encrypted with Base64
device			
	app(M)	String	UPI playstore registered appid, same appid used to generate in token call
	capability(O)	String	Ex: 011001
	gcmid(O)	String	GCMID generated by google
	geocode(O)	String	Ex: 12.9667,77.5667
	id(M)	String	Device IMEI code
	ip(O)	String	Ex: 123.456.123.123
	location(O)	String	Ex: Sarjapur Road, Bangalore, KA, IN
	mobile(M)	String	for the initiator (Example 91xxxxxxxxxx)
	os(O)	String	Device OS ex: Android 4.4
otpcrred			

	subType(M)	String	SMS
	type(M)	String	OTP
otpcred:data			
	code(M)	String	NPCI common library code value
	ki(M)	String	NPCI common library ki value
	skey(M)	String	NPCI common library skey
	type(M)	String	NPCI common library type
	pid(M)	String	NPCI common library pid
	hmac(M)	String	key
	encryptedBase64String(M)	String	Encrypted with Base64
atmpincred			
	subType(M)	String	ATMPIN
	type(M)	String	PIN
atmpincred:data			
	code(M)	String	NPCI common library code value
	ki(M)	String	NPCI common library ki value
	skey(M)	String	NPCI common library skey
	type(M)	String	NPCI common library type
	pid(M)	String	NPCI common library pid
	hmac(M)	String	key
	encryptedBase64String(M)	String	Encrypted with Base64

OutPut Parameters :

	Field	Type	Description
	code	String	00

	result	String	Success/Failure
	data	Object	

API Error Codes:

Code	Description
00	Success
91	TimeOut
94	Incomplete Data in Request
03	Customer not found / Customer Account not found

Example:

URL:https://<ip>:<port>/v1/customer/accounts/mobreg?customerid=9190000XXX5

Request Body:

```
{
  "Card": "123456",
  "expiry": "02/2020",
  "regtype": "N",
  "ac": {
    "aadhaarNo": "xxxx xxxx xxxx xxxx",
    "accRefNumber": "vsP58drZzm3dX2YeBpLT1zVjSIw=",
    "type": "SAVINGS",
    "aeba": "Y",
    "ifsc": "AXISXXXXXXXXX"(First Three Digits are Bank Code),
    "maskedAccnumber": "XXXXXX1234",
    "mbeba": "Y",
    "mmid": "string",
    "name": "abcd",
    "Uidnum": "1234567891012345",
    "Iin": "8569472",
    "Vpa": "abcd@okaxis",
    "Status": "A",
    "dLength": "8",
    "dType": "NUM",
    "Balance": "278.00",
    "balTime": "2018-04-17T16:52:56.3 69+05:30",
    "atmpinFormat": "001 ",
    "Atmpinlength": "4",
  }
}
```

```

    },
    "bank": "1234567",
    "otpcred": {
      "data": {
        "code": "",
        "ki": "",
        "Skey": " ",
        "Type": " ",
        "Pid": "",
        "Hmac": "",
        "encryptedBase64String": ""
      }
    },
    "subType": "SMS",
    "type": "OTP"
  },
  "customerid": "919000xxxxxx",
  "device": {
    "app": "com.olive.axis",
    "capability": "011001",
    "gcmid": "",
    "geocode": "12.9667,77.5667",
    "id": "123456789",
    "ip": "127.0.0.2",
    "location": "Sarjapur Road, Bangalore, KA, IN",
    "mobile": "919000XXXX",
    "os": "Android 4.4"
  },
  "mpincred": {
    "data": {
      "code": "",
      "ki": "",
      "Skey": " ",
      "Type": " ",
      "Pid": "",
      "Hmac": "",
      "encryptedBase64String": ""
    }
  },
  "subType": "MPIN",
  "type": "PIN"
},
"atmpincred": {
  "data": {
    "code": "",
    "ki": "",
    "Skey": " ",
    "Type": " ",
    "Pid": "",
    "Hmac": "",
    "encryptedBase64String": ""
  }
}

```

```

    },
    "subType": "ATMPIN",
    "type": "PIN"
  },
  "txnId": "96358245698789632569362145896321586"
}

```

ResponseBody:

```

{
  "code": "00",
  "result": "success",
  "data":
}

```

7.Change MPIN/UPIN

Change the existing Mpin and add the new Mpin.

POST: /v1/customer/accounts/cred?customerid=919000012345

Change MPIN/UPIN

Input Parameters

	Field	Type	Description
	bank(M)	String	Bank IIN
	customerid(M)	String	Customer mobile number
	txnId(M)	String	Unique transaction id 35 digit
ac:			
	accRefNumber(M)	String	Account number

	type(M)	String	Account Type
	aeba(O)	String	Aadhaar banking enabled EX: Y N
	ifsc(M)	String	Account IFSC code
	maskedAccnumber(O)	String	Account number with hash
	mbeba(O)	String	Mobile banking enabled Ex: Y N
	mmid(O)	String	IMPS payment mmid
	name(M)	String	Customer Account Name
	uidnum(O)	String	User Identification Number
	iin(O)	String	issuer identification number
	vpa(M)	String	Virtual Payment Address
	status(O)	String	Status of the transaction
	dLength(O)	String	Account number Mpin length
	dType(O)	String	Account number Mpin length
	balance(O)	String	Account balance
	balTime(O)	String	Last refreshed balance time
	atmpinFormat(O)	String	ATM pin format
	atmpinlength(O)	String	Length of ATM pin
cred			
	subType(M)	String	MPIN
	type(M)	String	PIN
cred:data			
	code(M)	String	NPCI common library code value
	ki(M)	String	NPCI common library ki value
	skey(M)	String	NPCI common library skey
	type(M)	String	NPCI common library type
	pid(M)	String	NPCI common library pid

	hmac(M)	String	key
	encryptedBase64String(M)	String	Encrypted with Base64
device			
	app(M)	String	UPI playstore registered appid, same appid used to generate in token call
	capability(O)	String	Ex: 011001
	gcmid(O)	String	GCMID generated by google
	geocode(O)	String	Ex: 12.9667,77.5667
	id(M)	String	Device IMEI code
	ip(O)	String	Ex: 123.456.123.123
	location(O)	String	Ex:Sarjapur Road, Bangalore, KA, IN
	mobile(M)	String	for the initiator (Example 91xxxxxxxxxx)
	os(O)	String	Device OS ex:Android 4.4
newcred			
	subType(M)	String	MPIN
	type(M)	String	PIN
newcred:data			
	code(M)	String	NPCI common library code value
	ki(M)	String	NPCI common library ki value
	skey(M)	String	NPCI common library skey
	type(M)	String	NPCI common library type
	pid(M)	String	NPCI common library pid
	hmac(M)	String	key
	encryptedBase64String(M)	String	Encrypted with Base64

OutPut Parameters :

	Field	Type	Description
	code	String	00
	result	String	Success/Failure
	data(O)	Object	No Data

API Error Codes:

Code	Description
00	Success
91	TimeOut
92	CustomerId mismatched
03	Customer Accounts not found

Example:

URL:https://<ip>:<port>/v1/customer/accounts/cred?customerid=919000012345

Request Body:

```
{
  "ac": {
    "aadhaarNo": "xxxx xxxx xxxx xxxx",
    "accRefNumber": "vsP58drZzm3dX2YeBpLT1zVjSIw=",
    "type": "SAVINGS",
    "aeba": "Y",
    "ifsc": "AXISXXXXXXXXX"(First Three Digits are Bank Code),
    "maskedAccnumber": "XXXXXX1234",
    "mbeba": "Y",
    "mmid": "string",
    "name": "abcd",
    "Uidnum": "1234567891012345",
    "Iin": "8569472",
    "Vpa": "abcd@okaxis",
    "Status": "A",
    "dLength": "8",
    "dType": "NUM",
    "Balance": "278.00",
```

```

    "balTime": "2018-04-17T16:52:56.3 69+05:30",
    "atmpinFormat": "001 ",
    "Atmpinlength": "4",
  },
  "bank": "1234567",
  "cred": {
    "data": {
      "code": "",
      "ki": "",
      "Skey": " ",
      "Type": " ",
      "Pid": "",
      "Hmac": "",
      "encryptedBase64String": ""
    },
    "subType": "MPIN",
    "type": "PIN"
  },
  "customerid": "919000xxxxxx",
  "device": {
    "app": "com.olive.axis",
    "capability": "011001",
    "gcmid": "",
    "geocode": "12.9667,77.5667",
    "id": "123456789",
    "ip": "127.0.0.2",
    "location": "Sarjapur Road, Bangalore, KA, IN",
    "mobile": "919000XXXX",
    "os": "Android 4.4"
  },
  "newcred": {
    "data": {
      "code": "",
      "ki": "",
      "Skey": " ",
      "Type": " ",
      "Pid": "",
      "Hmac": "",
      "encryptedBase64String": ""
    },
    "subType": "MPIN",
    "type": "PIN"
  },
  "txnid": "96358245698789632569362145896321586"
}

```

ResponseBody:

```
{
  "code": "00",
  "result": "success"
}
```

8.Balance Inquiry

Check balance of selected account.

POST: /v1/bank/transactions/balanceinquiry?customerid=9190XXXXX

Balance Inquiry

Input Parameters :

	Field	Type	Description
	bankId(M)	String	Bank iin of the customer trying to Check Balance
	customerid(M)	String	Mobile Number Of Customer
	txnId(M)	String	Unique transaction id 35 digit
	vpa(M)	String	Virtual Payment Address

ac			
	accRefNumber(M)	String	Account number
	type(M)	String	Account Type
	aeba(O)	String	Aadhaar banking enabled EX: Y N
	ifsc(M)	String	Account IFSC code
	maskedAccnumber(O)	String	Account number with hash
	mbeba(O)	String	Mobile banking enabled Ex: Y N
	mmid(O)	String	IMPS payment mmid
	name(M)	String	Customer Account Name
	uidnum(O)	String	User Identification Number
	iin(O)	String	issuer identification number
	vpa(M)	String	Virtual Payment Address
	status(O)	String	Status of the transaction
	dLength(O)	String	Account number Mpin length
	dType(O)	String	Account number Mpin length
	balance(O)	String	Account balance
	balTime(O)	String	Last refreshed balance time
	atmpinFormat(O)	String	ATM pin format
	atmpinlength(O)	String	Length of ATM pin
cred			
	subType(M)	String	
	type(M)	String	
cred:data			
	code(M)	String	NPCI common library code value
	ki(M)	String	NPCI common library ki value
	skey(M)	String	NPCI common library skey

	type(M)	String	NPCI common library type
	pid(M)	String	NPCI common library pid
	hmac(M)	String	key
	encryptedBase64String(M)	String	Encrypted with Base64
device			
	app(M)	String	UPI playstore registered appid, same appid used to generate in token call
	capability(O)	String	Ex: 011001
	gcmid(O)	String	GCMID generated by google
	geocode(O)	String	Ex: 12.9667,77.5667
	id(M)	String	Device IMEI code
	ip(O)	String	Ex: 123.456.123.123
	location(O)	String	Ex: Sarjapur Road, Bangalore, KA, IN
	mobile(M)	String	for the initiator (Example 91xxxxxxxxxx)
	os(O)	String	Device OS ex: Android 4.4

OutPut Parameters :

	Field	Type	Description
	code	String	00
	result	String	Success/Failure
	data	String	If customer account have balance it will shown as xx.xx format, pin is invalid it should be NA .

API Error Codes:

Code	Description
------	-------------

00	Success
91	TimeOut
U01	Duplicate TXNID found
94	Incomplete Data in Request
95	Invalid VPA
03	Invalid Customer

Example:

URL: post:https://<ip>:<port>/v1/bank/transactions/balanceinquiry?customerid=919000XXXXXX

Request Body:

```
{
  "ac": {
    "aadhaarNo": "xxxx xxxx xxxx xxxx",
    "accRefNumber": "vsP58drZzm3dX2YeBpLT1zVjSIw=",
    "type": "SAVINGS",
    "aeba": "Y",
    "ifsc": "AXISXXXXXXXXX"(First Three Digits are Bank Code),
    "maskedAccnumber": "XXXXXX1234",
    "mbeba": "Y",
    "mmid": "965836",
    "name": "abcd",
    "Uidnum": "1234567891012345",
    "Iin": "8569472",
    "Vpa": "abcd@okaxis",
    "Status": "A",
    "dLength": "8",
    "dType": "NUM",
    "Balance": "278.00",
    "balTime": "2018-04-17T16:52:56.3 69+05:30",
    "atmpinFormat": "001 ",
    "Atmpinlength": "4",
  },
  "bankId": "9683625",
  "cred": {
    "data": {
      "code": "",
      "ki": "",
      "Skey": " ",
      "Type": " ",
      "Pid": "",
      "Hmac": "",
    }
  }
}
```



```

    "encryptedBase64String":"","
  },
  "subType": "MPIN",
  "type": "PIN"
},
"customerId": "919000xxxxxx",
"device": {
  "app": "com.olive.axis",
  "capability": "011001",
  "gcmid": "",
  "geocode": "12.9667,77.5667",
  "id": "123456789",
  "ip": "127.0.0.2",
  "location": "Sarjapur Road, Bangalore, KA, IN",
  "mobile": "919000XXXX",
  "os": "Android 4.4
},
"txnId": "9683657896365214589636987456325417",
"vpa": "abcd@axis"
}

```

ResponseBody:

```

{
  "code": "00",
  "result": "success",
  "data": "10.00"
}

```

9.Pay

Transfer funds from payer account to payee account.

POST:/v1/bank/transactions/pay/customerid=919236498236

Pay

Input Parameters :

SN	Field	Type	Description
	amount(M)	String	Transaction amount in Rupees. Ex: 100.50
	customerId(M)	String(12)	Payer Mobile number.
	customerRefid(M)	String	Payer Account number.
	mcc(C)	String(4)	Merchant category code
	orderId(O)	String	Merchant transactions Scan & pay Mcc present
	remarks(M)	String()	Transaction remarks
	txnId(M)	String(35)	Unique transaction identifier
payees		List<payee>	
	beneVpa(M)	String	Virtual Payment Address of payee
	bamount(M)	String	Amount to be Transferred in rupees. Ex. 100.50
ac			
	accRefNumber(M)	String	Payer Account number
	type(M)	String	Payer Account Type
	aeba(O)	String(1)	Payer Aadhaar banking enabled EX: Y N
	ifsc(M)	String(11)	Payer Account IFSC code
	maskedAccnumber(O)	String	Payer Masked Account number Ex. xxxxxxxx1236
	mbeba(O)	String(1)	Mobile banking enabled Ex: Y N
	mmid(O)	String(7)	IMPS payment mmid
	name(M)	String	Customer Account Name
	uidnum(O)	String	User Identification Number
	iin(O)	String	issuer identification number
	vpa(M)	String	Virtual Payment Address

	status(O)	String	Status of the transaction
	dLength(O)	String	Account number Mpin length
	dType(O)	String	Account number Mpin length
	balance(O)	String	Account balance
	balTime(O)	String	Last refreshed balance time
	atmpinFormat(O)	String	ATM pin format
	atmpinlength(O)	String	Length of ATM pin
cred			
	subType(M)	String	MPIN
	type(M)	String	PIN
cred:data			
	code(M)	String	NPCI common library code value
	ki(M)	String	NPCI common library ki value
	skey(M)	String	NPCI common library skey
	type(M)	String	NPCI common library type
	pid(M)	String	NPCI common library pid
	hmac(M)	String	key
	encryptedBase64String(M)	String	Encrypted with Base64
device			
	app(M)	String	UPI playstore registered appid, same appid used to generate in token call
	capability(O)	String	Ex: 011001
	gcmid(O)	String	GCMID
	geocode(O)	String	Ex: 12.9667,77.5667
	id(M)	String	Device IMEI code
	ip(O)	String	Ex: 123.456.123.123

	location(O)	String	Ex: Sarjapur Road, Bangalore, KA, IN
	mobile(M)	String	for the initiator (Example 91xxxxxxxxxx)
	os(O)	String	Device OS ex: Android 4.4

OutPut Parameters :

	Field	Type	Description
	code	String	00
	result	String	Success/Failure
	data	String	12 digit ref-number of the transaction

API Error Codes:

Code	Description
00	Success
91	TimeOut
03	Customer account vpa not found!! Or Invalid IFSC code
P03	Aadhaar Payment Disabled!
U01	Duplicate TXNID found
04	Account Details missing
03	Invalid Customer
05	Velocity Amount Exceed Customer
06	Velocity Limit Exceed Customer
07	Remitter VPA not found
09	Customer Accounts not found
08	VPA de-linked, we can't allow to payment

Example:

URL: https://<ip>:<port>/v1/bank/transactions/pay?customerid=919000012345

Request Body:

```
{
  "ac": {
    "aadhaarNo": "xxxx xxxx xxxx xxxx",
    "accRefNumber": "vsP58drZzm3dX2YeBpLT1zVjSIw=",
    "type": "SAVINGS",
    "aeba": "Y",
    "ifsc": "AXISXXXXXXXXX"(First Three Digits are Bank Code),
    "maskedAccnumber": "XXXXXX1234",
    "mbeba": "Y",
    "mmid": "965836",
    "name": "abcd",
    "Uidnum": "1234567891012345",
    "Iin": "8569472",
    "Vpa": "abcd@okaxis",
    "Status": "A",
    "dLength": "8",
    "dType": "NUM",
    "Balance": "278.00",
    "balTime": "2018-04-17T16:52:56.3 69+05:30",
    "atmpinFormat": "001 ",
    "Atmpinlength": "4"
  },
  "amount": "248.00",
  "cred": {
    "data": {
      "code": "",
      "ki": "",
      "Skey": " ",
      "Type": " ",
      "Pid": "",
      "Hmac": "",
      "encryptedBase64String": ""
    }
  },
  "subType": "MPIN",
  "type": "PIN"
},
"customerId": "919000xxxxxx",
"customerRefid": "8123456709",
"device": {
  "app": "com.olive.axis",
  "capability": "011001",
  "gcmid": "",
  "geocode": "12.9667,77.5667",
  "id": "123456789",
  "ip": "127.0.0.2",
  "location": "Sarjapur Road, Bangalore, KA, IN",
}
```

```
"mobile": "919000XXXX",
"os": "Android 4.4

},
"mcc": "1520",
"orderId": "877865234234 ",
"payees": [
{
  "bamount": "248.00",
  "beneVpa": "olive@axis"
}
],
"remarks": "",
"txnId": "963256987563256985745698632569856987412"
}
```

ResponseBody:

```
{
  "code": "00",
  "result": "success",
  "data": "656567476757"
}
```

10.Collect Request

Payee initiated collect request

POST:/v1/bank/transactions/collect?customerid=9190000XXX50

Collect Request

Input Parameters

	Field	Type	Description
	amount(M)	String	Transaction Amount
	customerid(M)	String	Customer mobile number
	txnId(M)	String	Unique transaction id 35 digit
	remarks()	String	Remarks of the transaction
	expiry(M)	String	Date on which collect Request Expired
	payerVpa(M)	String	VPA of Payer
ac:			
	accRefNumber(M)	String	Payee Account number
	type(M)	String	Account Type(current account,saving account... etc
	aeba(O)	String	Aadhaar banking enabled EX: Y N
	ifsc(M)	String	Payee Account IFSC code
	maskedAccnumber(O)	String	Account number with hash
	mbeba(O)	String	Mobile banking enabled Ex: Y N
	mmid(O)	String	IMPS payment mmid
	name(M)	String	Customer Account Name
	uidnum(O)	String	User Identification Number
	iin(M)	String	issuer identification number
	vpa(M)	String	Virtual Payment Address
	status(O)	String	Status of the transaction
	dLength(O)	String	Account number Mpin length
	dType(O)	String	Account number Mpin length
	balance(O)	String	Account balance
	balTime(O)	String	Last refreshed balance time
	atmpinFormat(O)	String	ATM pin format

	atmpinlength(O)	String	Length of ATM pin
device			
	app(M)	String	UPI playstore registered appid, same appid used to generate in token call
	capability(O)	String	Ex: 011001
	gcmid(O)	String	GCMID generated by google
	geocode(O)	String	Ex: 12.9667,77.5667
	id(M)	String	Device IMEI code
	ip(O)	String	Ex: 123.456.123.123
	location(O)	String	Ex:Sarjapur Road, Bangalore, KA, IN
	mobile(M)	String	for the initiator (Ex: 9190xxxxxx)
	os(O)	String	Device OS ex:Android 4.4

OutPut Parameters :

	Field	Type	Description
	code	String	00
	result	String	Success/Failure
	data	String	RRN Number

API Error Codes:

Code	Description
U01	Duplicate transaction
03	Customer not found
10	Invalid vpa
04	Account not found
00	success

Example:

URL:https://<ip>:<port>/v1/bank/transactions/collect?customerid=9190000XXX5

Request Body:

```
{
  "amount": "111.00",
  "customerId": "919000xxxxxx",
  "expiry": "8 may 2018 10:10:10",
  "payerVpa": "abcd@axis.com",
  "remarks": " ",
  "txnId": "65498763265478965265987452365984213"
  "ac": {
    "aadhaarNo": "xxxx xxxx xxxx xxxx",
    "accRefNumber": "vsP58drZzm3dX2YeBpLT1zVjSIw=",
    "type": "SAVINGS",
    "aeba": "Y",
    "ifsc": "AXISXXXXXXXXX"(First Three Digits are Bank Code),
    "maskedAccnumber": "XXXXXX1234",
    "mbeba": "Y",
    "mmid": "string",
    "name": "abcd",
    "Uidnum":"1234567891012345",
    "Iin":"8569472",
    "Vpa":"abcd@okaxis",
    "Status" : "A",
    "dLength": "8",
    "dType": "NUM",
    "Balance": "278.00",
    "balTime": "2018-04-17T16:52:56.3 69+05:30",
    "atmpinFormat": "001 ",
    "Atmpinlength": "4",
  },
  "device": {
    "app": "com.olive.axis",
    "capability": "011001",
    "gcmid": "",
    "geocode": "12.9667,77.5667",
    "id": "123456789",
    "ip": "127.0.0.2",
    "location": "Sarjapur Road, Bangalore, KA, IN",
    "mobile": "919000XXXX",
    "os": "Android 4.4"
  }
}
```

```
}
```

ResponseBody:

```
{
  "code": "00",
  "result": "success",
  "data": "8523695845659"
}
```

11. Collect Approve

API is used to approve the collect request.

POST:/v1/bank/transactions/collectpay?customerid=9190000XXX5

Collect Approve

Input Parameters

	Field	Type	Description
	customerid(M)	String	Customer mobile number
	txnId(M)	String	Unique transaction id 35 digit
	approvalRef()	String	
ac:			
	accRefNumber(M)	String	Payer Account number
	type(M)	String	Account Type(SAVINGS,CURRENT)
	aeba(O)	String	Aadhaar banking enabled EX: Y N
	ifsc(M)	String	Payer Account IFSC code
	maskedAccnumber(O)	String	Payer Account number with hash

	mbeba(O)	String	Mobile banking enabled Ex: Y N
	mmid(O)	String	IMPS payment mmid
	name(M)	String	Customer Account Name
	uidnum(O)	String	User Identification Number
	iin(M)	String	issuer identification number
	vpa(M)	String	Virtual Payment Address
	status(O)	String	Status of the transaction
	dLength(O)	String	Account number Mpin length
	dType(O)	String	Account number Mpin length
	balance(O)	String	Account balance
	balTime(O)	String	Last refreshed balance time
	atmpinFormat(O)	String	ATM pin format
	atmpinlength(O)	String	Length of ATM pin
cred			
	subType(M)	String	MPIN
	type(M)	String	PIN
cred:data			
	code(M)	String	NPCI common library code value
	ki(M)	String	NPCI common library ki value
	skey(M)	String	NPCI common library skey
	type(M)	String	NPCI common library type
	pid(M)	String	NPCI common library pid
	hmac(M)	String	key
	encryptedBase64String(M)	String	Encrypted with Base64
device			
	app(M)	String	UPI playstore registered appid, same appid

			used to generate in token call
	capability(O)	String	Ex: 011001
	gemid(O)	String	GCMID generated by google
	geocode(O)	String	Ex: 12.9667,77.5667
	id(M)	String	Device IMEI code
	ip(O)	String	Ex: 123.456.123.123
	location(O)	String	Ex: Sarjapur Road, Bangalore, KA, IN
	mobile(M)	String	for the initiator (Example 91xxxxxxxxxx)
	os(O)	String	Device OS ex: Android 4.4

OutPut Parameters :

	Field	Type	Description
	code	String	00
	result	String	Success/Failure
	data	String	Reference id(RRN)

API Error Codes:

Code	Description
91	TimeOut
92	Duplicate Txnid found
02	Pending request Txnid
03	Expired Txn
05	Velocity amount exceed
06	Daily limit exceed
07	Remitter vpa not found

Example:

URL:https://<ip>:<port>/v1/bank/transactions/collectpay?customerid=9190000XXX50

Request Body:

```
{
  "customerId": "919000xxxxxx",
  "txnId": "65498763265478965265987452365984213",
  "approvaRef": "",
  "ac": {
    "aadhaarNo": "xxxx xxxx xxxx xxxx",
    "accRefNumber": "vsP58drZzm3dX2YeBpLT1zVjSIw=",
    "type": "SAVINGS",
    "aeba": "Y",
    "ifsc": "AXISXXXXXXXXX"(First Three Digits are Bank Code),
    "maskedAccnumber": "XXXXXX1234",
    "mbeba": "Y",
    "mmid": "string",
    "name": "abcd",
    "Uidnum": "1234567891012345",
    "Iin": "8569472",
    "Vpa": "abcd@okaxis",
    "Status": "A",
    "dLength": "8",
    "dType": "NUM",
    "Balance": "278.00",
    "balTime": "2018-04-17T16:52:56.3 69+05:30",
    "atmpinFormat": "001 ",
    "Atmpinlength": "4",
  },
  "cred": {
    "data": {
      "code": "",
      "ki": "",
      "Skey": " ",
      "Type": " ",
      "Pid": "",
      "Hmac": "",
      "encryptedBase64String": ""
    },
    "subType": "MPIN",
    "type": "PIN"
  },
  "device": {
    "app": "com.olive.axis",
    "capability": "011001",
    "gcmid": "",
    "geocode": "12.9667,77.5667",
    "id": "123456789",
  },
}
```

```

"ip": "127.0.0.2",
"location": "Sarjapur Road, Bangalore, KA, IN",
"mobile": "919000XXXX",
"os": "Android 4.4"
}
}

```

ResponseBody:

```

{
"code": "00",
"result": "success",
"data": "23232322"
}

```

12.Collect Decline

API is used to decline/reject the collect request.

POST: /v1/txn/notification/reject?customerid=9190000XXX50

Collect Decline

Input Parameters:

TranHistory

	Field	Type	Description
	amount(O)	String	Requested amount
	beneName(O)	String	Payee Name
	expdate(O)	String	Date on which collect Request Expired
	mobile(O)	String	Customer mobile number
	notes(O)	String	Comment on transaction
	payeeVpa(O)	String	Virtual Payment Address of payee
	payerVpa(O)	String	Virtual Payment Address of payer

	refid(O)	String	Reference Id
	status(O)	String	Status of Transaction
	txnid(M)	String	Transaction Id

OutPut Parameters :

	Field	Type	Description
	code(M)	String	00
	result(M)	String	Success/Failure

Data : pendingReqVo

pendingRequestVo

	amount(O)	String	Requested amount
	beneName(O)	String	Payee Name
	expdate(O)	String	Date on which collect Request Expired
	mobile(O)	String	Customer mobile number
	notes(O)	String	Comment on transaction
	payeeVpa(O)	String	Virtual Payment Address of payee
	payerVpa(O)	String	Virtual Payment Address of payer
	refid(O)	String	Reference Id
	status(M)	String	Status of Transaction i.e P/E/C/R
	txnid(M)	String	Transaction Id

API Error Codes:

Code	Description
02	User already taken action on txn

00	SUCCESS
----	---------

Example:

URL: https://<ip>:<port>/v1/txn/notification/reject?customerid=9190000XXX50

Request Body:

```
{
  "amount": "114.00",
  "beneName": "Rahul",
  "expdate": "10 may 2018 11:11:11",
  "mobile": "9190000xxxxx",
  "notes": "don't have money ",
  "payeeVpa": "rahul@axis",
  "payerVpa": "ramesh@axis",
  "refid": "425861234568",
  "status": "P",
  "txnid": "7896365986325698547123659856325698"
}
```

ResponseBody:

```
{
  "code": "00",
  "result": "success",

  "data": [{ "payerVpa": "ramesh@axis", "payeeVpa": "suresh@axis", "beneName": "suresh", "amount": "122.00", "notes": "don't have money", "status": "", "expdate": "10 may 2018 11:11:11", "refid": "425861234565" }, { "payerVpa": "ramesh@axis", "payeeVpa": "praveen@axis", "beneName": "praveen", "amount": "965.00", "notes": "don't have money", "status": "", "expdate": "11 may 2018 11:11:11", "refid": "425861234564" } ]
}
```

13.Pending Notifications

API is used to check the list of notifications which has to be Approved.

POST: /v1/txn/pending?customerid=9190000XXX50

Pending Notifications

Input Parameters:

No Input required

OutPut Parameters :

	Field	Type	Description
	code(M)	String	00
	result(M)	String	Success/Failure

Data : **List<pendingRequestVo>**

	amount(O)	String	Requested amount
	beneName(O)	String	Payee Name
	expdate(O)	String	Date on which collect Request Expired
	mobile(O)	String	Customer mobile number
	notes(O)	String	Comment on transaction
	payeeVpa(O)	String	Virtual Payment Address of payee
	payerVpa(O)	String	Virtual Payment Address of payer
	refid(O)	String	Reference Id
	status(O)	String	Status of Transaction

API Error Codes:

Code	Description
00	success

Example:

URL:https://<ip>:<port>/v1/txn/pending?customerid=9190000XXX50

ResponseBody:

```
{
  "code": "00",
  "result": "success",
  "data": [{"mobile": "9190000XXX50", "payerVpa": "ramesh@axis", "payeeVpa": "suresh@axis", "beneName": "suresh", "amount": "122.00", "notes": "don't have money", "status": "P", "expdate": "10 may 2018 11:11:11", "refid": "425861234565"}, {"mobile": "9190000XXX50", "payerVpa": "ramesh@axis", "payeeVpa": "praveen@axis", "beneName": "praveen", "amount": "965.00", "notes": "don't have money", "status": "P", "expdate": "11 may 2018 11:11:11", "refid": "425861234564" }]
}
```

14.Raise Query

This API is used to raise the complaint against the transactionid.

****Only payer can raise query**

POST: /v4/txn/query?appid=com.olive.upi

Raise Query

Input Parameters:**TranHistory**

	Field	Type	Description
	amount(O)	String	Requested amount
	creditAccount(O)	String	Credit Account
	creditBankName(O)	String	credit bank name
	creditVpa(O)	String	Payee VPA
	dateTime(O)	String	Transaction date and time
	debitAccount(O)	String	Debit Account
	debitBankName(O)	String	Debit Bank Name

	debitVpa(O)	String	Payer VPA
	expirydateTime(O)	String	Time at which collect request Expired
	query(M)	String	Complaint details
	queryCloserComment(O)	String	Query resolution
	queryStatus(O)	String	Status of the query C-Closed, O-open
	querydate(O)	String	Date of the query raised
	queryid(O)	String	Query ID
	refid(O)	String	Reference Id
	remarks(O)	String	Remarks of the Query
	status(O)	String	Status of the transaction C-Complete, P-Pending, R-Reject, D-Decline, F-Fail
	tranid(M)	String	Transaction ID
	mobilenumber(M)	String	mobilenumber

OutPut Parameters :

	Field	Type	Description
	code(M)	String	00
	result(M)	String	Success/Failure
data(O) :			
	refId	String	Reference number(RRN)

API Error Codes:

Code	Description
99	timeout
01	Transaction not found
02	Already query raised form this transaction
00	success

Example:

URL:https://<ip>:<port>/v1/txn/query?appid=com.olive.upi

Request Body:

```
{
  "amount": "120.00",
  "creditAccount": "855551236586",
  "creditBankName": "AXIS",
  "creditVpa": "ram@axis",
  "dateTime": "2016-10-07T16:52:56.369+05:30",
  "debitAccount": "769809365241",
  "debitBankName": "AXIS",
  "debitVpa": "ramesh@axis",
  "expirydateTime": "11 may 2018 12:12:12",
  "query": "Amount not Credited",
  "queryCloserComment": "",
  "queryStatus": "",
  "querydate": "2016-10-07T16:52:56.369+05:30",
  "queryid": "208",
  "refid": "425861234567",
  "remarks": "Remarks if any",
  "status": "Completed",
  "tranid": "6548523698546523145874512365241789654121236",
  "mobilenumber": "918985592627"
}
```

ResponseBody:

```
{
  "code": "00",
  "result": "success",
  "data": "67897"
}
```

15.Query list

API is used to get List Complaints raised by Customer.

POST: /v4/txn/query/list?customerid=9190000XXX50&appid=com.olive.upi

Query List

Input Parameters:

No Input required

OutPut Parameters :

	Field	Type	Description
	code(M)	String	00
	result(M)	String	Success/Failure
data(O) :			
	amount(O)	String	Requested amount
	creditAccount(O)	String	Credit Account
	creditBankName(O)	String	credit bank name
	creditVpa(O)	String	Payee VPA
	dateTime(O)	String	Transaction date and time
	debitAccount(O)	String	Debit Account
	debitBankName(O)	String	Debit Bank Name

	debitVpa(O)	String	Payer VPA
	expirydateTime(O)	String	Time at which collect request Expired(we can get value of this field only when Query about Collect Request)
	query(M)	String	Complaint details
	queryCloserComment	String	Query resolution
	queryStatus(O)	String	Status of the query C-Closed, O-open
	querydate(O)	String	Date of the query raised
	queryid(O)	String	Query ID
	refid(O)	String	Reference Id
	remarks(O)	String	Remarks of the Query
	status(O)	String	Status of the transaction C-Complete, P-Pending, R-Reject, D-Decline, F-Fail
	tranid(M)	String	Transaction ID

API Error Codes:

Code	Description
91	Timeout
00	Success

Example:

URL: https://<ip>:<port> /v1/txn/query/list??customerid=9190000XXX50

Request Body:

ResponseBody:

```
{
  "code": "00",
  "result": "success",

  "data": [{
    "tranid": "KMB06776b384cc5479ba318ce30cd0231c5", "type": "PAY", "refid": "811520064811", "dateTime": "25/04/1820:32:45", "amount": "1.00", "debitAccount": "0611180580", "debitVpa": "free@kotak", "debitBankName": "KKBK", "creditAccount": "0911190685", "creditVpa": "sivatest@kotak", "creditBankName": "sivatest@kotak", "status": "C", "remarks": "NA", "query": "fff", "queryStatus": "Open", "queryid": "773818", "querydate": "30/04/1817:25:41", "expirydateTime": "", "queryCloserComment": null, "description": null, "rc": null, "handlerid": 0, "remittername": null, "beneficiaryname": null, "creditDebitType": null}, {
    "tranid": "KMBdbfcbeaf453145d8b3a5a14b75399d50", "type": "PAY", "refid": "811113063082", "dateTime": "21/04/1813:02:59", "amount": "1.00", "debitAccount": "0101307583747", "debitVpa": "gdghd@kotak", "debitBankName": "AABC", "creditAccount": null, "creditVpa": "b-3@kotak", "creditBankName": "b-3@kotak", "status": "C", "remarks": "Funds Transfer", "query": "yh", "queryStatus": "Open", "queryid": "766599", "querydate": "21/04/1815:55:00", "expirydateTime": "", "queryCloserComment": null, "description": null, "rc": null, "handlerid": 0, "remittername": null, "beneficiaryname": null, "creditDebitType": null}
  ]
}
```

16.List Banks

API is used to get the list of the UPI enabled banks.

GET: /v1/listbanks ?customerid=9190000XXX5

List Banks

Input Parameters:

No Input required

OutPut Parameters :

	Field	Type	Description
	code(M)	String	00
	result(M)	String	Success/Failure

data(O) : List of Bank

	name(M)	String	Name of Bank
	iin(M)	String	IIN of Bank

API Error Codes:

Code	Description
00	success

Example:

URL: https://<ip>:<port>/v1/listbanks?customerid=9190000XXX5

Request Body:

ResponseBody:

```
{
  "code": "00",
  "result": "success",
  "data": [{"name": "DCB", "iin": "524214", "logo": null}, {"name": "DCB
Bank", "iin": "524215", "logo": null}, {"name": "DENA", "iin": "612348", "logo": null}, {"name": "Dhan
laxmi Bank", "iin": "508528", "logo": null}, {"name": "Equitas Small Finance
Bank", "iin": "508998", "logo": null}, {"name": "FEDE", "iin": "907165", "logo": null}]
}
```

17. Account Delete/Remove

API is used to remove the particular account from the list of added accounts by customer.

POST:/v4/account/remove?customerid=9190000XXX5&accountno=vsP58drZzm3dX2YeBpLT1zVjSIw=&appid=com.olive.upi

Account Delete/Remove

Input Parameters :

URL having input value, no request body

OutPut Parameters :

	Field	Type	Description
	code	String	00
	result	String	Success/Failure

API Error Codes:

Code	Description
01	Account not found
00	success
91	timeout

Example:

URL:https://<ip>:<port>/v4/account/remove?customerid=9190000XXX5&accountno=3334343&appid=com.olive.upi

Request Body:

ResponseBody:

```
{
  "code": "00",
  "result": "success"
}
```

18.OTP Request

API is used to request OTP from the customer issuer bank which is used to set/Re-set Mpin.

POST:/v1/customer/otp?customerid=9190000XXX5

OTP Request

Input Parameters

	Field	Type	Description
	txnId(M)	String	Unique transaction id 35 digit
	customerId(M)	String	Mobile Number of Customer
	bankId(M)	String	Bank Id/iin
ac:Account details			
	accRefNumber(M)	String	Account number
	type(M)	String	Account Type
	aeba(O)	String	Aadhaar banking enabled EX: Y N
	ifsc(M)	String	Account IFSC code
	maskedAccnumber(O)	String	Account number with hash
	mbeba(O)	String	Mobile banking enabled Ex: Y N
	mmid(O)	String	IMPS payment mmid
	name(M)	String	Customer Account Name
	uidnum(O)	String	User Identification Number
	iin(O)	String	issuer identification number
	vpa(M)	String	Virtual Payment Address
	status(O)	String	Status of the transaction
	dLength(O)	String	Account number Mpin length
	dType(O)	String	Account number Mpin length
	balance(O)	String	Account balance

	balTime(O)	String	Last refreshed balance time
	atmpinFormat(O)	String	ATM pin format
	atmpinlength(O)	String	Length of ATM pin
device			
	app(M)	String	UPI playstore registered appid, same appid used to generate in token call
	capability(O)	String	Ex: 011001
	gcmid(O)	String	GCMID generated by google
	geocode(O)	String	Ex: 12.9667,77.5667
	id(M)	String	Device IMEI code
	ip(O)	String	Ex: 123.456.123.123
	location(O)	String	Ex: Sarjapur Road, Bangalore, KA, IN
	mobile(M)	String	for the initiator (Example 91xxxxxxxxxx)
	os(O)	String	Device OS ex: Android 4.4

OutPut Parameters :

	Field	Type	Description
	code	String	00
	result	String	Success/Failure

API Error Codes:

Code	Description
91	TimeOut
01	Customer Not found
03	Customer Account not found

Example:

URL: https://<ip>:<port>/v1/customer/otp?customerid=9190000XXX50

Request Body:

```
{
  "txnId": "65498763265478965265987452365984213",
  "bankId": "7065236",
  "customerId": "9190000XXXXX",
  "ac": {
    "aadhaarNo": "XXXX XXXX XXXX XXXX",
    "accRefNumber": "vsP58drZzm3dX2YeBpLT1zVjSIw=",
    "type": "SAVINGS",
    "aeba": "Y",
    "ifsc": "AXISXXXXXXXXX",
    "maskedAccnumber": "XXXXXX1234",
    "mbeba": "Y",
    "mmid": "string",
    "name": "abcd",
    "Uidnum": "1234567891012345",
    "Iin": "8569472",
    "Vpa": "abcd@okaxis",
    "Status": "A",
    "dLength": "8",
    "dType": "NUM",
    "Balance": "278.00",
    "balTime": "2018-04-17T16:52:56.3 69+05:30",
    "atmpinFormat": "001 ",
    "Atmpinlength": "4",
  },
  "device": {
    "app": "com.olive.axis",
    "capability": "011001",
    "gcmid": "",
    "geocode": "12.9667,77.5667",
    "id": "123456789",
    "ip": "127.0.0.2",
    "location": "Sarjapur Road, Bangalore, KA, IN",
    "mobile": "919000XXXX",
    "os": "Android 4.4"
  }
}
```

ResponseBody:

```
{
  "code": "00",
  "result": "success"
}
```

19. Transaction History

API is used to check Transaction History.

POST: /v4/txn/list?customerid=9190000XXX50&appid=com.olive.upi&fromDate= 10/01/2018 01:01:01&toDate=10/05/2018 01:01:01

Transaction History

Input Parameters:

No Input required

OutPut Parameters :

	Field	Type	Description
	code(M)	String	00
	result(M)	String	Success/Failure
data(O) :			
List<TranHistory>			
	amount(O)	String	Requested amount
	creditAccount(O)	String	Credit Account
	creditBankName(O)	String	credit bank name
	creditVpa(O)	String	Payee VPA
	dateTime(O)	String	Transaction date and time
	debitAccount(O)	String	Debit Account
	debitBankName(O)	String	Debit Bank Name
	debitVpa(O)	String	Payer VPA
	expirydateTime(O)	String	Time at which collect request Expired(we can get value of this field only when Query about Collect Request)
	query(M)	String	Complaint details
	queryCloserComment	String	Query resolution
	queryStatus(O)	String	Status of the query C-Closed, O-open

	querydate(O)	String	Date of the query raised
	queryid(O)	String	Query ID
	refid(O)	String	Reference Id
	remarks(O)	String	Remarks of the Query
	status(O)	String	Status of the transaction C-Complete, P-Pending, R-Reject, D-Decline, F-Fail
	tranid(M)	String	Transaction ID

API Error Codes:

Code	Description
91	Timeout
00	Success

Example:

URL: <https://<ip>:<port> v4/txn/list?customerid=9190000XXX50&appid=com.olive.upi&fromDate=10/01/2018 01:01:01&toDate=10/05/2018 01:01:01>

Request Body:

ResponseBody:

```
{
  "code": "00",
  "result": "success",

  "data": [{ "tranid": "KMB06776b384cc5479ba318ce30cd0231c5", "type": "PAY", "refid": "811520064811", "dateTime": "25/04/1820:32:45", "amount": "1.00", "debitAccount": "0611180580", "debitVpa": "free@kotak", "debitBankName": "KKBK", "creditAccount": "0911190685", "creditVpa": "sivatest@kotak", "creditBankName": "sivatest@kotak", "status": "C", "remarks": "NA", "query": "fff", "queryStatus": "Open", "queryid": "773818", "querydate": "30/04/1817:25:41", "expirydate": "", "query"} ]
}
```

```

CloserComment":null,"description":null,"rc":null,"handlerid":0,"remittername":null,"beneficiary
name":null,"creditDebitType":null},{ "tranid":"KMBdbfcbeaf453145d8b3a5a14b75399d50","type":
"PAY","refid":"811113063082","dateTime":"21/04/1813:02:59","amount":"1.00","debitAccount":
"0101307583747","debitVpa":"gdghd@kotak","debitBankName":"AABC","creditAccount":null,"
creditVpa":"b-3@kotak","creditBankName":"b-3@kotak","status":"C","remarks":"Funds
Transfer","query":"yh","queryStatus":"Open","queryid":"766599","querydate":"21/04/1815:55:0
0","expirydateTime":"","queryCloserComment":null,"description":null,"rc":null,"handlerid":0,"
remittername":null,"beneficiaryname":null,"creditDebitType":null}]
}

```

20. Check Transaction Status

API is used to check status of Transaction.

POST: /v4/txn/chkstatus?txnid=KMB06776b384cc5479ba318ce30cd0231c5

Check Transaction Status

Input Parameters:

	Field	Type	Description
	amount(O)	String	Requested amount
	creditAccount(O)	String	Credit Account
	creditBankName(O)	String	credit bank name
	creditVpa(O)	String	Payee VPA
	dateTime(O)	String	Transaction date and time
	debitAccount(O)	String	Debit Account
	debitBankName(O)	String	Debit Bank Name

	debitVpa(O)	String	Payer VPA
	expirydateTime(O)	String	Time at which collect request Expired
	query(M)	String	Complaint details
	queryCloserComment(O)	String	Query resolution
	queryStatus(O)	String	Status of the query C-Closed, O-open
	querydate(O)	String	Date of the query raised
	queryid(O)	String	Query ID
	refid(O)	String	Reference Id
	remarks(O)	String	Remarks of the Query
	status(O)	String	Status of the transaction C-Complete, P-Pending, R-Reject, D-Decline, F-Fail
	tranid(M)	String	Transaction ID

OutPut Parameters :

	Field	Type	Description
	code(M)	String	00
	result(M)	String	Success/Failure
data(O) : TranHistory			
	amount(O)	String	Requested amount
	creditAccount(O)	String	Credit Account
	creditBankName(O)	String	credit bank name
	creditVpa(O)	String	Payee VPA
	dateTime(O)	String	Transaction date and time
	debitAccount(O)	String	Debit Account

	debitBankName(O)	String	Debit Bank Name
	debitVpa(O)	String	Payer VPA
	expirydateTime(O)	String	Time at which collect request Expired(we can get value of this field only when Query about Collect Request)
	query(M)	String	Complaint details
	queryCloserComment	String	Query resolution
	queryStatus(O)	String	Status of the query C-Closed, O-open
	querydate(O)	String	Date of the query raised
	queryid(O)	String	Query ID
	refid(O)	String	Reference Id
	remarks(O)	String	Remarks of the Query
	status(O)	String	Status of the transaction C-Complete, P-Pending, R-Reject, D-Decline, F-Fail
	tranid(M)	String	Transaction ID

API Error Codes:

Code	Description
91	Timeout
00	Success
041	Transaction Nof Found
O80	Database error
O60	Unknown Error
02	Status Not Found
03	Status Not Found

Example:

URL:https://<ip>:<port> /v4/txn/chkstatus?txnid=KMB06776b384cc5479ba318ce30cd0231c5

Request Body:

```
{
  "amount": "120.00",
  "creditAccount": "855551236586",
  "creditBankName": "AXIS",
  "creditVpa": "ram@axis",
  "dateTime": "2016-10-07T16:52:56.369+05:30",
  "debitAccount": "769809365241",
  "debitBankName": "AXIS",
  "debitVpa": "ramesh@axis",
  "expirydateTime": "11 may 2018 12:12:12",
  "query": "Amount not Credited",
  "queryCloserComment": "",
  "queryStatus": "",
  "querydate": "2016-10-07T16:52:56.369+05:30",
  "queryid": "208",
  "refid": "425861234567",
  "remarks": "Remarks if any",
  "status": "Completed",
  "tranid": "6548523698546523145874512365241789654121236",
}
```

ResponseBody:

```
{
  "code": "00",
  "result": "success",

  "data":["tranid":"KMB06776b384cc5479ba318ce30cd0231c5","type":"PAY","refid":"811520064811","dateTime":"25/04/1820:32:45","amount":"1.00","debitAccount":"0611180580","debitVpa":"free@kotak","debitBankName":"KKBK","creditAccount":"0911190685","creditVpa":"sivatest@kotak","creditBankName":"sivatest@kotak","status":"C","remarks":"NA","query":"fff","queryStatus":"Open","queryid":"773818","querydate":"30/04/1817:25:41","expirydateTime":"","queryCloserComment":null,"description":null,"rc":null,"handlerid":0,"remittername":null,"beneficiaryname":null,"creditDebitType":null]
}
```

21. VPA Verification

API is used to verify the virtual payment address is valid or not.

POST: /v4/vpa/verify?customerid=918985592627&vpa=test@psp&appid=com.olive.upi

VPA Verification

Input Parameters:

No Input required

OutPut Parameters :

	Field	Type	Description
	code(M)	String	00
	result(M)	String	Success/Failure
data(O) :			
	name	String	verified vpa name if success

API Error Codes:

Code	Description
91	Timeout
00	Success
99	Customer Not found

Example:

URL: https://<ip>:<port> /v4/vpa/verify?customerid=918985592627&vpa=test@psp&appid=com.olive.upi

Request Body:

ResponseBody:

```
{
  "code": "00",
  "result": "success",
  "Data": " test"
```

22. List Keys

List Keys API

GET : /v1/listkeys
List Keys

Input Parameters:

No Input required

OutPut Parameters :

	Field	Type	Description
	code(M)	String	00
	result(M)	String	Success/Failure

data(O) :

	data	String	MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAuMKxWfy0WcPp98muBWa6yhpmb6ZGZGSKHRIOv05UIIN5TbUPl6yEerh7Wj0+JyKfsOntRdAVhkLJGRoHwH6gEEeFNHge7kPea/B33cQAbqa39mnP5F1aaZT3tjJnKrfl1Wum0crdb7dAMzft4JILOEa+s3Uh7OdYEI/Xp7EisdSoJ345Cj0LTfLZEQzRdVGovXZrflByJysH11V9tDrIVv75C/3UndwjHt3NrqnNBouMh5VZRFkewueBUAkhIed5gvoyJwd0yYGrAUXNrXJJDTAj5diCuasWyfWZR9lsX5I14hdxF+lqadR/pgII53DW5oEy2LMXgvt2u/qmSml8wIDAQAB
--	------	--------	---

Example:

URL:https://<ip>:<port> /v1/listkeys

Request Body:

ResponseBody:

```
{
  "code": "00",
  "result": "success",
  "data": "MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAuMKxWfy0WcPp98muBWa6yhpmb6ZGZGSKHRIOv05UIIN5TbUPl6yEerh7Wj0+JyKfsOntRdAVhkLJGRoHwH6gEEeFNHge7kPea/B33cQAbqa39mnP5F1aaZT3tjJnKrfl1Wum0crdb7dAMzft4JILOEa+s3Uh7OdYEI/Xp7EisdSoJ345Cj0LTfLZEQzRdVGovXZrflByJysH11V9tDrIVv75C/3UndwjHt3NrqnNBouMh5VZRFkewueBUAkhIed5gvoyJwd0yYGrAUXNrXJJDTAj5diCuasWyfWZR9lsX5I14hdxF+lqadR/pgII53DW5oEy2LMXgvt2u/qmSml8wIDAQAB"
```