

UNIFIED PAYMENT INTERFACE INTEGRATION DOCUMENT v 2.0

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Version	Prepared By	Verified By	Date	Description
1.0	Rishav Singh	Gaurav Sharma	10-Nov-2023	Vpa creation with static,dynamic Qr and check exist vpa and Txn Status.
2.0	Rishav Singh	Gaurav Sharma	02-Jan-2024	Static qr, Dynamic qr, validate vpa and get txn status api separately.

Web APIs

1. Web API Based: App can consume Web based server APIs.
2. Encryption key: Below keys will be used to encrypt the header and API request.
 AES_ENCRYPTION_IV = " "; (provided by SprintNxt)
 AES_ENCRYPTION_KEY = " "; (provided by SprintNxt)

Plain Json:

```
{
  "client_secret":"60029bdad4aa8a2182c31b5067f0a890a75b45d94c09e33a9515160e5f9bb437",
  "timestamp":"1701149935",
  "requestid":"TEST7656786328"
}
```

```
$cipher = openssl_encrypt(json_encode($datapost,true), 'AES-256-CBC',
  $AES_ENCRYPTION_KEY, $options=OPENSSL_RAW_DATA, $AES_ENCRYPTION_IV);
$token = base64encode($cipher);
```

3. Below details to be passed in the API header:

Key Name: token

Key value: U2FsdGVkX1+GFDkeZymmOjIIMJwRMMvd/egGURwXtwcd0QkOCh0sYLO9yil5
 9YuTvqlvHeAZ1dul8RRRbv U6GpMNjjJyU2dmFtRKzhSBEjiBkqneOrwoXoZ+qG4n54iJ

Key Name: Client-id

Key value: U1BS97461278Mzg5ZWVjOTc254YmEwNw==

Ref for token creation :

1. <https://www.javainuse.com/aesgenerator>
2. <https://www.devglan.com/online-tools/aes-encryption-decryption>

Sl. No	API Name	API URL	API Id
1.	Bank Account List	https://uatnxtgen.sprintnxt.in/api/v2/UPIService/UPI	20242
2.	Validate vpa Address	https://uatnxtgen.sprintnxt.in/api/v2/UPIService/UPI	20243
3.	Get VPA	https://uatnxtgen.sprintnxt.in/api/v2/UPIService/UPI	20246
4.	Txn Status	https://uatnxtgen.sprintnxt.in/api/v2/UPIService/UPI	20247
5.	QR Generation - DynamicQR	https://uatnxtgen.sprintnxt.in/api/v2/UPIService/UPI	20248
6.	QR Generation - StaticQR	https://uatnxtgen.sprintnxt.in/api/v2/UPIService/UPI	20249
7.	Callback / Webhook	Partner Url	

SprintPN
By PaySprint

SprintVerify
By PaySprint

SprintNXT
By PaySprint

• Bank Account List:

This API will be used to fetch the Bank accounts mapped to the registered Bank.

Methods with HTTP binding

Method Name	Method	Pattern
Bank Account List	POST	/api/v2/UPIService/UPI

Request Parameters:

Field	Type	Value	Description	Validations
apiId	string	20242	API Specific ID	<ul style="list-style-type: none"> • string.min_len: 4 • string.max_len: 6
bankId	string	3	Merchant Active Bank ID	<ul style="list-style-type: none"> • string.min_len: 1 • string.max_len: 6
type	string	collection	Type	<ul style="list-style-type: none"> • string.max_len: 15

Sample Request:

```
{
  "apiId" : 20242,
  "bankId": 3,
  "type": "collection"
}
```

Response:

```
{
  "status_code": 200,
  "responsecode": 1,
  "status": true,
  "message": "Bank Account Details Found!",
  "data": [
    {
      "id": 107,
      "account_number": "989823121122"
    }
  ]
}
```

• Validate Vpa Address:

This API will be used to validate the customer VPA.

Methods with HTTP binding

Method Name	Method	Pattern
Validate VPA Req	POST	/api/v2/UPIService/UPI

Request Parameters:

Field	Type	Value	Description	Validations
apiId	string	20243	API Specific ID	<ul style="list-style-type: none"> • string.min_len: 4 • string.max_len: 6
bankId	string	3	Merchant Active Bank ID	<ul style="list-style-type: none"> • string.min_len: 10 • string.max_len: 10
vpa	string		VPA Address	<ul style="list-style-type: none"> • string.max_len: 20

Sample Request:

```
{
  "apiId" :20243,
  "vpa": "ps1.9041657193@fin",
  "bankId": 3
}
```

Response:

```
{
  "status_code": 200,
  "responsecode": 1,
  "status": true,
  "message": "VPA Found Successfully!",
  "data": {
    "id": 47,
    "bankName": "ICICI BANK",
    "refid": "20231221011036138",
  }
}
```

```

    "userid": 138,
    "merchantID": "7136716968981827584",
    "terminalId": "7136716969015382016",
    "vpa": "ps1.9041657193@fin",
    "mobileNumber": "9041657193",
    "Settlement_Account": "989823121122",
    "Settlement_IFSC": "UTIB0003227",
    "merchantType": null,
    "charge": "1.00",
    "Bank_Name": "Axis Bank",
    "Bene_Name": "SprintNxt"
  }
}

```

• Get Vpa Address:

This API will be used fetch the VPA's linked to the mobile number.

Methods with HTTP binding

Method Name	Method	Pattern
Get VPA	POST	/api/v2/UPIService/UPI

Request Parameters:

Field	Type	Value	Description	Validations
apiId	string	20246	API Specific ID	<ul style="list-style-type: none"> • string.min_len: 4 • string.max_len: 6
bankId	string	3	Merchant Active Bank ID	<ul style="list-style-type: none"> • string.min_len: 1 • string.max_len: 10
mobileNumber	string		Mobile Number	<ul style="list-style-type: none"> • string.min_len: 10 • string.max_len: 12

Sample Request:

```
{
  "apiId" :20246,
  "mobileNumber": "8877665540",
  "bankId": 3
}
```

Response:

```
{
  "status_code": 200,
  "responsecode": 1,
  "status": true,
  "message": "Success",
  "data": {
    "id": 50,
    "bankName": "ICICI BANK",
    "refId": "20231229110620138",
    "userid": 138,
    "merchantID": "1703847980570544",
    "terminalId": "1703847980924727",
    "vpa": "ps1.stest2024@fin",
    "mobileNumber": "8877665540",
    "Settlement_Account": "83808328903",
    "Settlement_IFSC": "SBIN0001232",
    "merchantType": null,
    "charge": "1.00",
    "Bank_Name": "State bank of India",
    "Bene_Name": "SANU"
  }
}
```

• Get Txn Status:

This API will be used to fetch the transaction status basis Reference/ Transaction Id passed by the partner in Dynamic/Static QR or initiate collect.

Methods with HTTP binding

Method Name	Method	Pattern
Txn Status	POST	/api/v2/UPIService/UPI

Request Parameters:

Field	Type	Value	Description	Validations
apiId	string	20247	API Specific ID	<ul style="list-style-type: none"> • string.min_len: 4 • string.max_len: 6
bankId	string	3	Merchant Active Bank ID	<ul style="list-style-type: none"> • string.min_len: 1 • string.max_len: 10
txnId	string		Txn ID	<ul style="list-style-type: none"> • string.min_len: 10 • string.max_len: 12

Sample Request:

```
{
  "apiId" :20247,
  "txnId": "910934714470978934",
  "bankId": 3
}
```

Response:

```
{
  "status_code": 200,
  "responsecode": 1,
  "status": true,
  "message": "Transaction Found!",
  "data": {
    "id": 101,
    "bankName": "ICICI BANK",
    "qr_type": 2,
    "txnId": "910934714470978934",
    "userid": 150,
    "merchant_code": "6202740",
    "merchant_tranid": "EZV2023042005302397259217",
    "qr_refid": "EZV2023042005302397259217",
    "client_txnReferance": null,
    "amount": "100.00",
    "bank_refid": null,
    "status": 3
  }
}
```


• QR Generation:

This API will be used to generate Static and Dynamic QR. Response of API getting Base64 value. Partner has to convert Base64 to image format.

Note: In case of Dynamic QR Amount and TxnReference Id to be passed. Partner can use this field to pass any value of his choice to uniquely identify the transaction of his choice.

DynamicQR

Note: All the below fields are mandatory to generate dynamic QR. Validation enabled for dynamic QR

- Unique txn Reference to be used.
- Unique Reference-id generated Dynamic QR, 1-Time use only.
- QR Expiry Time should be in minutes
- Valid Payee VPA to be Considered for Dynamic QR Generation.

Methods with HTTP binding

Method Name	Method	Pattern
QR Generation - DynamicQR	POST	/api/v2/UPIService/UPI

Request Parameters:

Field	Type	Value	Validations
apiId	string	20248	<ul style="list-style-type: none"> • string.min_len: 4 • string.max_len: 6
bankId	string	3	<ul style="list-style-type: none"> • string.min_len: 1 • string.max_len: 10
amount	string		<ul style="list-style-type: none"> • string.min_len: 10 • string.max_len: 12
payeeVPA	string		<ul style="list-style-type: none"> • string.min_len: 4 • string.max_len: 11

mobile	string		<ul style="list-style-type: none"> • string.min_len: 10 • string.max_len: 10
ExpiryTime	string		<ul style="list-style-type: none"> • string.min_len: 4 • string.max_len: 11
txnNote	string		<ul style="list-style-type: none"> • string.min_len: 4 • string.max_len: 11
txnReference	string		<ul style="list-style-type: none"> • string.min_len: 4 • string.max_len: 11

Sample Request:

```
{
  "apiId" :20248,
  "bankId": 3,
  "amount": "22",
  "payeeVPA": "ps1.sdpay@fin",
  "mobile": "8877664543",
  "ExpiryTime": "1440",
  "txnNote": "Pay For 1 Rupees",
  "txnReference": "33344440092992200"
}
```

Response:   

```
{
  "status_code": 200,
  "responsecode": 1,
  "status": true,
  "message": "QR Generated Successfully.",
  "details": {
    "b64":
    "iVBORw0KGgoAAAANSUhEUgAABqQAAaAkCAYAAACS0Ho4AAAAAXNSR0IArs4cQA
    AAARnQU1BAACxjwv8YQUAAAJcEhZcwAADsMAAA7DAcdvqGQAAP+ISURBVHhe7Nl
    BjiTbsSTRv/9Nd484kyA8IVp0hbkeQMZquB75SKD+7//NzMzMzMzMzMzMzM/EP7B6mZm
    ZmZmZmZmZmZn5p/YPUjMzMzMzMzMzMzM/M/NP7R+kZmZmZmZmZmZmZmZm5p/a
    P0jNzMzMzMzMzMzMzMZMP7V/kJqZmZmZmZmZmZmZmZl/av8gNTMzMzMzMzMzMzM
    M//U/kFqZmZmZmZmZmZmZmZm/qn9g9TMzMzMzMzMzMzMzMzM8U/sHqZmZmZmZmZm
    mZmZmfmn9g9SMzMzMzMzMzMzMzMzM80/tH6RmZmZmZmZmZmZmZmbmn9o/SM3MzMz
    MzMzMzMzMw/tX+QmpmZmZmZmZmZmZmZmZmX9q/yA1MzMzMzMzMzMzMzM/9T+Q
    WpmZmZmZmZmZmZmZmb+qf2D1MzMzMzMzMzMzMzMzMzPxT+wepmZmZmZmZmZmZm
    mZ+af2D1IzMzMzMzMzMzMzMzMzPzT+0fpGZmZ
    mZmZmZmb+qf2D1MzMzMzMzMzMzMzMzMzPxT+wepmZmZmZmZmZmZmZmZ+af2D1IzMz
    MzMzMzMzMzMzMzMzPzT+0fpGZmZmZmZmZmZmZmZmZuaf2j9IzcZmzMzMzMzMzMzMzD+l5Ca
    mZmZmZmZmZmZmZmZmZf2r/IDUzMzMzMzMzMzMzMzMzP/1P5BamZmZmZmZmZmZmZmZv6p
    /YPUzMzMzMzMzMzMzMzM/M/FP7B6mZmZmZmZmZmZmZmZn5p/YPUjMzMzMzMzMzMzM
    zM/NP7R+kZmZmZmZmZmZmZmZm5p/aP0jNzMzMzMzMzMzMzMzMZMP7V/kJqZmZmZmZm
    ZmZmZmZl/av8gNTMzMzMzMzMzMzMzM/M//U/kFqZmZmZmZmZmZmZmZm/qn9g9TMzMzM
    zMzMzMzMzM8U/sHqZmZmZmZmZmZmZmZmZmfmn9g9SMzMzMzMzMzMzMzMzM80/tH6Rm
```

```

ZmZmZmZmZmZmZmbmn9o/SM3MzMzMzMzMzMzMzMw/tX+QmpmZmZmZmZmZmZmZm
X9q/yA1MzMzMzMzMzMzMzMzMz/9T+QWpmZmZmZmZmZmZmZmb+qf2D1MzMzMzMzMzM
zMzMzMzPxT+wepmZmZmZmZmZmZmZmZmZ+af2D1IzMzMzMzMzMzMzMzMzMzPzT+0fpGZmZmZm
ZmZmZmZmZuaf2j9IzczMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzM
MzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzM
MzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzM
mZmZmZmZmZmZmZmZmZn5p/YPUjMzMzMzMzMzMzMzMzMzM/M/NP7R+kZmZmZmZmZmZmZmZmZ
m5p/aP0jNzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzMzM
MzMzMzM/M/U/kFqZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZmZm
SaMPUjm42pdHG5dJow5RGG6Y02ljP,
  "payeeVPA": "ps1.sdpay@fin",
  "merchantId": "7136692073267621888",
  "UPIRefID": "FIDzn35eejswXfBcTsGJI",
  "txnReference": "33344440092992200",
  "txnNote": "test"
}
}

```

StaticQR

SprintPN SprintVerify SprintNXT

This API will be used to generate Static QR Code. Response of API getting Base64 value. Partner has to convert Base64 to image format.

Methods with HTTP binding

Method Name	Method	Pattern
QR Generation - StaticQR	POST	/api/v2/UPIService/UPI

Request Parameters:

Field	Type	Value	Validations
apild	string	20249	<ul style="list-style-type: none"> • string.min_len: 4 • string.max_len: 6
bankId	string	3	<ul style="list-style-type: none"> • string.min_len: 1 • string.max_len: 10
payeeVPA	string		<ul style="list-style-type: none"> • string.min_len: 4 • string.max_len: 11

• Callback.

This API will be used to provide transaction notification for each successful UPI transaction.

Request:

```
{
  "event": "upi",
  "param": {
    "TxnStatus": "0",
    "TxnAmt": "1.00",
    "TxnType": "CREDIT",
    "RRN": "400310790241",
    "CBS_Ref_Num": "UC400310790241001PTM",
    "TXN_ID": "PTMD314D1ED9F0445F2BA22F251A9744EE8",
    "CustomerVPA": "psl.sprint@finobank",
    "CustomerName": "Tester",
    "CustomerIFSC": "FINO0000001",
    "CustomerAccNum": "3213001016",
    "PayerMobileNumber": "919934464262",
    "PayerVPA": "9934464262@paytm",
    "PayerName": "RISHAV KUMAR",
    "TransactionDateTime": "2024-01-03T05:47:06Z",
    "PartnerID": "1976664013836124160",
    "PartnerName": "PaySprint Private Limited",
    "UPIRefID": "LIvb34783852200141",
    "MsgId": "2I5ryAjgOu",
    "CustomerMobileNo": "98217616",
    "txnNote": "NOTE for txn",
    "message": "Transaction success",
    "trStatus": true,
    "event": "UPIQR_SUCCESS",
    "txnReferance": "SQ0829890322396122"
  }
}
```

Response:

```
{  
  "responseMessage": "Successful",  
  "returnCode": "0"  
}
```

Note : In production Mode you will get the encrypted request .

Sprint  **PN**
By PaySprint

Sprint  **Verify**
By PaySprint

Sprint  **NXT**
By PaySprint

ErrorCodes

Name	ResponseCode	Description
SUCCESS	0	TransactionSuccessful
FAILURE	1	System error codes
VPA_DEACTIVATED	15	
VPA_DELETED	16	
VPA_NOT_FOUND	17	
VPA_ALREADY_EXISTS	18	
VALIDATION_ERROR	6	
VPA_BLOCKED_BY_ISSUER	9	
VPA_COMMISSION_NOT_SET	10	
IP_NOT_WHITELISTED	11	
WEBHOOK_URL_NOT_FOUND	12	