

Version 2.4.0 March 2021 FIS





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Document Revision History

Name of the	CIS			
Version 2.4	1.0	-		
Document Definition: Cortex API specification for Prepaid – REST – JSON format		Document ID:		
Author:	R Prabakaran / P Kabilan	Effective Date:	19-March-2021	
Maintaine	d by:	Lifective Date.	13-141611-2021	
Reviewed Chandran	by: Rajendran Suresh, Anbazhagan			
Approved	by:			
Version Number	Revision Description	Date	Change Author	Change Approver
1.0	Draft version	14-Jul-2020	Kumari Jyoti / R Prabakaran	Rajendran Suresh
2.0	Clear PAN, SHA256 PAN, and cvv2 added based on request for card linking/activation API, customer details fetch API and Virtual card creation API	15-Jul-2020	Prabakaran R	Rajendran Suresh
2.1	Gift Card ordering, KYC update in customer Update, Verify CVV2 and Channel and Limit update APIs	11-Aug-2020	Prabakaran R	Suresh R
2.2	Card linking / activation service account no. is optional and Card Replacement Non Perso service account no. is optional.	13-Oct-2020	Prabakaran R	Suresh R
2.3	Card Upgrade [Card Product Change] service added, Virtual card creation account no. and account type is optional and document alignment issue fixed	22-Oct-2020	Prabakaran R	Suresh R
2.3.1	Channel Update service name change to channelupdate	20-Nov-2020	Prabakaran R	Suresh R
2.3.2	AccountLoad, BalanceAdjustment, Cvv Verification service are modified	04-Dec-2020	Prabakaran R	Suresh R
2.3.3	Card Details Enquiry Modified	09-Dec-2020	Prabakaran R	Suresh R
2.3.4	Account Load, Balance Adjustment amtbill length change. Card Order Standard Perso Service removed	15-Dec-2020	Prabakaran R	Suresh R



2.3.5	Cvv Verification service mobile number and custcode fields are added in response Card order standard perso service added	18-01-2021	Prabakaran R	Suresh R
2.3.6	Adjust Account Balance, Account Load, Set PIN, Change PIN, Transaction details Enquiry service field decription added.	20-01-2021	Prabakaran R	Suresh R
2.3.7	Gender & marital status is change to optional, gmail keyword rename to email.	25-01-2021	Prabakaran R	Suresh R
2.3.8	Error code message are changed. Authman note added.	29-01-2021	Prabakaran R	Suresh R
2.3.9	Cust code to be made mandatory in Card linking, standard perso APIs	02-02-2021	Prabakaran R	Suresh R
2.3.10	Custcode length reduced 12 to 10	10-03-2021	Prabakaran R	Suresh R
2.4.0	ClearPan, cvv2, ExpDate response fields are encrypted for security purpose. Using Authman Session key to decrypt.	19-03-2021	Prabakaran R	Suresh R

Document Distribution List

Sr. No	Associate/ Group Name	Organization/ Team	Purpose
1	PSS	FIS	Reference



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1. Introduction

Purpose & Scope

This document provides the specifications that should be adhered to within the banks via the Cortex web service API. In addition to the I/O specification accompanying text descriptions provide reference to explain the usage of specific data elements related to this specific solution together with any validation that are implemented within the web services in addition to other relevant behavior they exhibit.

Important note: This is a technical specification document and does not provides scope of project or SOW.

2. Authman

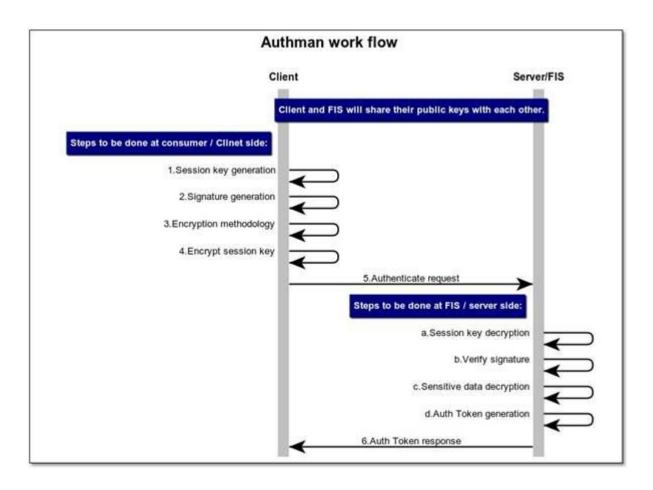
To consume Cortex APIs, first client or calling program or channel should get authenticated. To authenticate, client should call the Authman API.

Below section describes briefly on the Authman version 3.

DESCRIPTION

This section briefly describes the functionality of Authman version 3.

Below sequence diagram explains the Authman version 3 authentication process flow





Below are the steps to be followed by consumer or Client to Consume Cortex APIs.

Steps to be done at consumer/client side:

- 1. A session key should be generated (Algorithm: AES 256)
- 2. A signature should be generated with client's private key for the session key (Algorithm: SHA256 with RSA)
- 3. The institution ID, key alias (user ID) in the request should be encrypted using the session key. (Algorithm: AES/CBC/PKCS5Padding)
 - a. IV must be generated randomly for each request
 - b. Encrypted value must be converted base64 format
 - c. While sending the authenticate request, the parameter should be base64 (encrypted) + "." + base64 (IV)
 - d. Java Code snippet is provided in the Annxure 1 for reference
- 4. Then the session key should be encrypted using the public key of FIS (Algorithm: RSA)
- 5. The consumer should send the authenticate request to FIS with all these values (in base64 format)
- 6. Auth Token will be sent in the response by authman API to client or channels which consumes API

Steps done at FIS side:

- a) When authman receives the request, the session key will be decrypted using the private key of FIS (Algorithm: RSA)
- b) The signature sent by the consumer will be verified using the public key of the consumer (Algorithm: SHA256 with RSA)
- c) The institution ID, key alias and all other sensitive data in the request will be decrypted using the session key. (Algorithm: AES/CBC/PKCS5Padding)
- d) Upon successful authentication (verification of institution ID and user ID), the Auth Token will be generated

AUTHENTICATE API

This Api is used to validate the signature signed by the client. Once Validation successful we will generate X-Auth-token.

Note:

- Generated AuthToken by AuthMan is valid only for 45 minutes.
- Only one auth token is active at a time as soon as new token generated old token should removed/exprire.

Request URL:

URL: HTTP POST - https://<apihost>:<port>/authman/v3_0/usersec/authenticate

Request:

{



```
"keyAlias":"",

"institutionId":" "

"appId":" ",

"signature":" ",

"sessionKey":" ",

}
```

Request Parameter	Description
keyAlias	keyAlias should be encrypted using the sessionKey
	Algorithm: AES/CBC/PKCS5Padding
institutionId	Institution id will be provided by FIS. It has to be encrypted using Sessionkey (AES)
	Algorithm: AES/CBC/PKCS5Padding
Signature	Signature should be generated using the consumer's private key.
	Algorithm: SHA256WithRSA
sessionkey	Session key should be encrypted using FIS's public key. Session key can be
	any randon 16 or 32 digit alpha numeric
	Key Algorithm: AES 256
	Encryption Algorithm: RSA
	Please refer section 4.4 for the uses of sessionkey

Response:

```
{
    "returnCode":" ",
    "responseMessage":" ",
    "errors": [],
    "access_token":" ",
    "id_token": " ",
    "expires_in": " ",
}
```

Response Code	Description
Errors	Error message
access_token	Token generated after validation
id_token	Unique id of token
expires_in	Expiry time of Token in milliseconds



returnCode	00/01/02/03/04/06
responseMessage	00 – Success 01 – Invalid credentials, please try again
	02 – Error in Authenticating
	03 – Error in Decryption
	04 – User is Locked
	06 – Invalid Status Code

```
Sample Request:
```

```
{
              "keyAlias": "OkbOdd5Zc0ccbd7090PtMA==.t7SEZXtjq1vF9JEYUbBXPg==",
             "institutionId ":" 0w5xC29wvYvRqQeYBPtajg==.tyayfH/qZw4hfuxAEYInCA==",
              "appld":" ",
             "signature": "OsjqRg8nkKdxreZam16RgfZavEwEhY62uldUQQn/AjS33appwao6cbM2VlaJflckl
             2LZHIVoTdANDHaZ4bLuPwhuStrROljeDeiZzyLVvhN69oM/9typX2qWrcH4x6UsoIX+kfp51Yvx
             cYR4AiVyP8rTbINbBX//JMkv7XeTp+6tDfs+Efws0k+YqWqVouwnAnUf6+7HTn096ZsjN9uBW
             u5QcdDtpK0G2A99itfqtQ/04HuGVwyUJIYB29yUU/Gmub/2mHnBSVu49KqYigLHGR3MpVT
             VMjNxdZELKLjDikdXVwDBe7UZEmS/y/5RriEy68T2bgTsRz6t84QLE6Heew==",
              "sessionKey":"mJpiCKZpCJG0dgS5EALL2HLKik+fOSW7MwtgytVQlmg="
}
Sample Response:
                  "returnCode": "00",
                  "responseMessage": "Success",
                   "errors": [],
                 "access\_token":" eyJhbGciOiJIUzI1NiJ9.eyJhcHBJZCI6IklTVCIsImtleV9pZCI6IjkzZDZmZGFiL" access\_token":" eyJhbGciOiJIUzI1NiJ9.eyJhcHBJZCI6IklTVCIsImtleV9pZCI6IjkzZDZmZGFiL" access\_token": "eyJhbGciOiJIUzI1NiJ9.eyJhcHBJZCI6IklTVCIsImtleV9pZCI6IjkzZDZmZGFiL" access\_token": "eyJhbGciOiJIUzI1NiJ9.eyJhcHBJZCI6IklTVCIsImtleV9pZCI6IjkzZDZmZGFiL" access\_token": "eyJhbGciOiJIUzI1NiJ9.eyJhcHBJZCI6IklTVCIsImtleV9pZCI6IjkzZDZmZGFiL" access\_token": "eyJhbGciOiJIUzI1NiJ9.eyJhcHBJZCI6IklTVCIsImtleV9pZCI6IjkzZDZmZGFiL" access\_token": "eyJhbGciOiJIUzI1NiJ9.eyJhcHBJZCI6IklTVCIsImtleV9pZCI6IjkzZDZmZGFiL" access\_token": "eyJhbGciOiJIUzI1NiJ9.eyJhcHBJZCI6IklTVCIsImtleV9pZCI6IjkzZDZmZGFiL" access\_token access
                 WFkYTktNGY4MC1hNjIwLWUzNWE2YzgzZjViZSIsInVzZXJJZCI6InRlc3QiLCJpbnN0aXR1dGlv
                 bklkljoiMTlzNDU2liwicGFzc3dvcmQiOm51bGwsImdyYW50X3R5cGUiOm51bGwsInVzZXJE
                 jpudWxsLCJ1c2VyX2lkIjoidGVzdClsImlwX2FkZHJlc3MiOm51bGwsImdlb19sb2NhdGlvbil6b
                 nVsbCwibW1pZCl6bnVsbCwibWFwcGVkX3VzZXJfaWQiOm51bGwsImZ1bGxfbmFtZSl6bnV
                 sbCwiZW5jcnlwdGlvbl9rZXkiOiJTS1pIV2g3RW9kRGM1QXJ1am4zKytPYIZ2WHFMcUQ3ZFg
                 50G91WDRueURFPSJ9.LjwHRdtYtw3loutQUKC-lees54tYYKAPIWgs5s6iB10",
                  "id_token": "840f334e-bfdd-4eb5-ab75-875f8df48945",
                   "expires_in": 2700000,
   }
```

USES OF SESSION KEY IN THE API CALL



- The "SessionKey" is used to encrypt the sensitive values passed in the request.
- Before we use this "sessionKey" to encrypt the sensitive values, this sessionKey has to be decrypted using AES/CBC/PKCS5Padding algorithm.
- This key has to be saved in the session and it has to be regenerated whenever the access_token is regenerated.
- Each request should have added X-Auth-token in header with value of access_token received in authentication response.

Sample request and response using:

Header: Content-Type:application/json

X_Auth_Token:

"eyJhbGciOiJIUzl1NiJ9.eyJhcHBJZCl6lklTVClsImtleV9pZCl6ljkzZDZmZGFiLWFkYTktNGY4MC1hNjIwLWUzNWE2YzgzZjViZSlsInVzZXJJZCl6InRlc3QiLCJpbnN0aXR1dGlvbklkljoiMTlzNDU2liwicGFzc3dvcmQiOm51bGwsImdyYW50X3R5cGUiOm51bGwsInVzZXJEZXRhaWxzTWFwIjpudWxsLCJqdGkiOm51bGwsImlhdCl6MTUxNzQ3MdcxMzU1MSwiaXNzljpudWxsLCJ1c2VyX2lkljoidGVzdClsImlwX2FkZHJlc3MiOm51bGwsImdlb19sb2NhdGlvbil6bnVsbCwibW1pZCl6bnVsbCwibWFwcGVkX3VzZXJfaWQiOm51bGwsImZ1bGxfbmFtZSl6bnVsbCwiZW5jcnlwdGlvbl9rZXkiOiJTS1pIV2g3RW9kRGM1QXJ1am4zKytPYIZ2WHFMcUQ3ZFg5OG91WDRueURFPSJ9.LjwHRdtYtw3loutQUKC-lees54tYYKAPIWgs5s6iB10"

```
Body
{
    "vpan":"FISPSS",
    "email":"eXC1W8D8jigS2o11zmgMoA==",
    "mobile_num":" freYAsPROWW4S0/MviUvFQ==",
    "Account_num":"IDdB5K+youWWriMeGBNhCg=="
}
```

M – Mandatory O – Optional C-Conditional

3. Card Order – Non-perso (Insta-kit)

Card order non-perso API is used to place card order for insta-kits or non-personalized cards. Only the request will be logged in the system. As part of EOD process, the requested cards will be generated.

Request Format:

S.No.	Field	Min-	Mandatory?	Data	Description	Comments
		Max		Type		
		Length				
1	instCode	4 - 4	M	AN	Institution	
					Code	
2	cardOrderNonPersoReq	1-50	M	Array		Array of Object
3	pFlag	0-1	0	A	S	If S, system will pocess synchronously else async

Cortex API specification - Prepaid									
4	reqMsgld	18 - 18	M	String	Request Message Id				
5	makerId	0-50	0	String	Maker User Details				
6	checkerId	0-50	0	String	Checker User Details				
7	approverId	0-50	0	String	Approver Details				

Array Elements of cardOrderNonPersoReq Request Object:

Sno	Field	Max	Mandatory?	Data Type	Description	Comments
		Length				
1	reqld	18 -18	М	N	Request id of each	
					request	
2	actionCode	1 -1	М	Α	Validation or	V or E
					Execution	
3	branchCode	1-8	М	AN	Branch Code	
4	cardProduct	1-4	М	AN	Card Product	
5	cardCount	1-5	М	N	Card Count	
6	companyName	0-50	0	ANS	This name will be	
					used as emboss	
					name while card	
					creation.	
7	User	1-20	M	ANS	User, who will place	
					card Order	
8	persoBureauName	0-20	0	ANS		Emboss
						Vendor
						Name
9	userData1	0-12	0	ANS		User Data
						1 (For
						Future)
10	userData2	0-12	0	ANS		User Data
						2 (For
						Future)

Response Format:

S.No.	Field	Data Type	Data Type Description	
1	instCode	String	Institution Code	
2	cardOrderNonPersoRes	JSON Object	JSON Object	
3	processCode	Number	Process Code	
4	reqMsgld	String	Request Message Id	



5	respCode	String	Response Code	
6	respMsg	String	Response message	

Elements of cardRenewRes Object for response

S.No.	Field	Description	DataType	Comments
1	cardOrderNonPerResponseList	List of response	Array	Array of Object

Array Elements of cardOrderNonPerResponseList Response Object for success response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each	
			request	
2	respCode	String	Response Code	
3	respMsg	String	Response Message	
4	actionCode	String	Validation or	V or E
			Execution	
5	branchCode	String	Branch Code	
6	cardProduct	String	Card Product	
7	cardCount	String	Card Count	
8	invoiceNo	String	Random number generated for card order requet	It will be generated only for execution request not for validation.
9	User	String	User, who will place card Order	

Array Elements of cardOrderNonPerResponseList Response Object for failure response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	
4	actionCode	String	Validation or Execution	V or E

URL: http<s>://<ip>:<port>/app /rest/v1.0/cardordernonperso

Validation Request:

{
"instCode": "CLNT",



```
"reqMsgld": "201951968545010001",
"cardOrderNonPersoReq":[
       "regld": "201908271919300000",
       "actionCode":"V",
       "branchCode": "0001",
       "cardProduct": "MYMC",
       "cardCount": "00001",
       "user": "user1"
       },
       "regld": "201908271919300001",
       "actionCode":"V",
       "branchCode": "0001",
       "cardProduct": "MYMC",
       "cardCount": "00001",
       "user": "user2"
       }]
}
Validation Response:
{
         "respCode": "901",
         "respMsg": "Request Processed.",
         "processCode": 101,
         "instCode": "CLNT",
        "reqMsgId": "201951968545010001",
  "cardOrderNonPersoRes": {
         "cardOrderNonPerResponseList": [
             "reqld": "201908271919300000",
             "respCode": "00",
             "respMsg": "Non Perso Card Order Validation Done",
             "actionCode": "V",
             "branchCode": "0001",
             "cardProduct": "MYMC",
             "cardCount": "00001",
             "user": "user12222222222222"
           },
           {
             "reqld": "201908271919300001",
             "respCode": "00",
             "respMsg": "Non Perso Card Order Validation Done",
             "actionCode": "V",
             "branchCode": "0001",
             "cardProduct": "MYMC",
             "cardCount": "00001",
```



```
"user": "user3"
      }
Execution REQUEST
      "instCode": "CLNT",
      "pFlag": "",
      "reqMsgld": "201951968545010001",
      "cardOrderNonPersoReq":[
      "reqld": "201908271919300000",
      "actionCode":"E",
      "branchCode": "0001",
      "cardProduct": "MYMC",
      "cardCount": "00001",
      "user": "user1"
      },
      "reqld": "201908271919300001",
      "actionCode":"E",
      "branchCode": "0001",
      "cardProduct": "MYMC",
      "cardCount": "00001",
      "user": "user2"
      }]
SUCCESS RESPONSE
        "respCode": "901",
        "respMsg": "Request Processed.",
         "processCode": 101,
         "instCode": "CLNT",
      "reqMsgId": "201951968545010001",
 "cardOrderNonPersoRes": {
         "cardOrderNonPerResponseList": [
           {
             "reqld": "201908271919300000",
             "respCode": "00",
             "respMsg": "Bulkiss record processed Successfully",
             "actionCode": "E",
             "branchCode": "0001",
             "cardProduct": "MYMC",
             "cardCount": "00001",
```



```
"invoiceNo": "000000000446",
             "user": "user1"
           },
           {
             "reqld": "201908271919300001",
             "respCode": "00",
             "respMsg": "Bulkiss record processed Successfully",
             "actionCode": "E",
             "branchCode": "0001",
             "cardProduct": "MYMC",
             "cardCount": "00001",
             "invoiceNo": "000000000447",
             "user": "user2"
       }
FAILURE RESPONSE
{
         "respCode": "901",
        "respMsg": "Request Processed.",
         "processCode": 101,
         "instCode": "CLNT",
         "cardOrderNonPersoRes": {
         "cardOrderNonPerResponseList": [
             "regld": "201908271919300000",
             "respCode": "01",
             "respMsg": "Branch [0000001] not found",
              "actionCode":"E"
           },
             "reqld": "201908271919300001",
             "respCode": "01",
             "respMsg": "Branch [0002] not found",
             "actionCode":"E"
           }
         ]}
}
```

4. Card Order (insta-kit) cancel

Requested insta-kit or non-perso card order can be cancelled if card is already not generated.

S.No.	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	М	AN	Institution Code	

Cortex	API specification -					
2	cardOrderCnclRequest	1-50	М	Array	List of requests	Array of Object
3	pFlag	0-1	0	A	Pflag	If S, system will pocess synchronously else async
4	reqMsgld	18	M	String	Request Message Id	
5	makerId	0-50	0	String	Maker User Details	

String

String

Checker User Details

Approver Details

0

О

Array Elements of cardOrderCnclRequest Object:

0-50

0-50

Sno	Field	Max	Mandatory?	Data Type	Description	Comments
		Length				
1	actionCode	1	М	Α	Validation or	V or E
					Execution	
2	invoiceNo	32	M	AN	Random	
					number	
					generated	
					for every	
					card order	
					request	
3	User	0-20	0	ANS	User, who	
					will place	
					card order	
4	reqId	18	M	N	Request id of	
					each request	

Response Format:

6

7

checkerId

approverId

S.No.	Field	Data Type	Description	Comments
1	instCode	String	Institution Code	
2	cardOrderCnclRes	JSON Object	JSON Object	
3	processCode	Number	Process id of each request	
4	reqMsgId	String	Request Message Id	
5	respCode	String	Response Code	
6	respMsg	String	Response message	

Elements of cardOrderCnclRes Object for response

S.No.	Field	Description	DataType	Comments

cardOrderCancelResp



Array Elements of cardOrderCancelResp Response Object for success response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each	
			request	
2	respCode	String	Response Code	
3	respMsg	String	Response Message	
4	actionCode	String	Validation or	V or E
			Execution	
5	invoiceNo	String	Random number	
			generated for card	
			order requet	

Array Elements of cardOrderCancelResp Response Object for failure response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each	
			request	
2	respCode	String	Response Code	
3	respMsg	String	Response Message	
4	actionCode	String	Validation or	V or E
			Execution	

URL: http<s>://<ip>:<port>/app/rest/v1.0/cardordercancel

Validation REQUEST

VALIDATION SUCCESS RESPONSE



```
"respCode": "901",
"respMsg": "Request Processed.",
 "processCode": 102,
 "instCode": "CLNT",
 "reqMsgId": "201951968545010001",
 "cardOrderCnclRes": {
 "cardOrderCancelResp": [
   "regld": "201909031247330000",
   "respCode": "00",
   "respMsg": "Validation done successfully",
   "actionCode": "V",
   "invoiceNo": "000000000454"
                                   },
   {
      "regld": "201908271919300001",
      "respCode": "00",
      "respMsg": "Validation done successfully",
      "actionCode": "V",
      "invoiceNo": "000000000453"
 1
VALIDATION FAILURE RESPONSE
{
        "respCode": "901",
        "respMsg": "Request Processed.",
  "processCode": 102,
  "instCode": "CLNT",
 "reqMsgld": "201951968545010001",
  "cardOrderCancelResp": [
    {
      "reqld": "201909031251350000",
      "respCode": "01",
      "respMsg": "Given crdorder record not found"
    },
      "reqld": "201908271919300001",
      "respCode": "01",
     "respMsg": "Given crdorder record not found"
 ]
EXECUTION REQUEST
"instCode": "CLNT",
"reqMsgId": "201951968545010001",
"cardOrderCnclRequest":[
{
```



```
"regld": "201908271919300000",
"actionCode":"E",
"invoiceNo": "000000000453",
"user": "user1"
},
"reqld": "201908271919300001",
"actionCode":"E",
"invoiceNo": "00000000454",
"user": "user2"
}
]}
EXECUTION SUCCESS RESPONSE
{
        "respCode": "901",
        "respMsg": "Request Processed.",
 "processCode": 102,
   "instCode": "CLNT",
"reqMsgld": "201951968545010001",
  "cardOrderCnclRes": {
  "cardOrderCancelResp": [
      "regld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Record Processed Sucessfully",
      "actionCode": "E",
      "invoiceNo": "000000000453"
    },
      "reqld": "201908271919300001",
      "respCode": "00",
      "respMsg": "Record Processed Sucessfully",
      "actionCode": "E",
      "invoiceNo": "000000000454",
 ]
EXECUTION FAILURE RESPONSE
  "respCode": "901",
  "respMsg": "Request Processed.",
  "processCode": 102,
  "instCode": "CLNT",
  "reqMsgId": "201951968545010001",
  "cardOrderCnclRes": {
  "cardOrderCancelResp": [
      "reqld": "201908271919300000",
      "respCode": "01",
```



5. Card Order (insta-kit) enquiry

Using card order enqiry API, detail regarding non-perso or insta-kit card order details can be fetched.

Request Format:

S.No.	Field	Min-Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	M	AN	Institution Code	
2	cardOrderEnqReq	1-50	M	Array	List of requests	Array of Object
3	pFlag	0-1	0	A	S	If S, system will pocess synchronously else async
4	reqMsgld	18	М	String	Request Message Id	
5	makerId	0-50	0	String	Maker User Details	
6	checkerId	0-50	0	String	Checker User Details	
7	approverId	0-50	0	String	Approver Details	

Array Elements of cardOrderEnqReq Object:

Sno	Field	Min-	Mandatory?	Data	Description	Comments
		Max		Туре		
		Length				
1	actionCode	0-1	0	Α	Execution	
2	invoiceNo	0-32	С	AN	Random number generated for every	

	_		_
	_		_
	_		-
_	_		
		_	_

					card order	
					request	
3	fromDate	0-8	С	Date	From Date	YYYYMMDD
4	toDate	0-8	С	Date	To Date	YYYYMMDD
5	branchCode	0-8	С	AN	Branch	
					Code	
6	reqld	18	M	N	Request id	
					of each	
					request	
7	startRecordNo	0-5	M	N	Start	
					Record	
					Number	
8	endRecordNo	0-5	M	N	End Record	
					Number	

Note: Card order inquiry request should send invoice number only or branch code with Request date range should be given as input.

Possibility Like:

- 1. Only invoice number
- 2. Branch code with date range

Not allowed: [Don't send]

- 1. Invoice number + date range
- 2. Branch code only
- 3. Date range only

Response Format:

S.No.	Field	Data Type	Description	Comments
1	instCode	String	Institution Code	
2	cardOrderEnqRes	JSON Object	•	
3	processCode	Number	Process id of each request	
4	reqMsgld	String	Request Message Id	
5	respCode	String	Response Code	
6	respMsg	String	Response message	

Elements of cardOrderEnqRes Object for response

S.No.	Field	Description	DataType	Comments
1	cardOrderEnqResp	List of response	Array	Array of Object
2	totalRecord	Overa all total No. of record	String	



Array Elements of cardOrderEnqResp object for success Execution response:

Sno	Field	Data	Description	Comments
		Type		
1	reqld	String	Request id of	
			each request	
2	respCode	String	Response	
			Code	
3	respMsg	String	Response	
			Message	
4	actionCode	String	Execution	E
5	responseBuff	Array	List of	Array
			response	Note: For Already processed
				response, this field will not be
				present.

Array Elements of responseBuff Object:

1	invoiceNo	String	Request invoice number	
2	cardCount	String	Card Count	
3	reqDate	Srtring	Request Date	
4	startBatch	String	Start Batch	
5	endBatch	String	End Batch	
6	cardProduct	String	Card Product	
7	branchDes	String	Branch	
			Description	
8	orderStatusDesc	String	Order status	
			description	
9	fromDate	String	Request From	YYYYMMDD format
			Date	From Date from Request body
10	toDate	String	Request to	YYYYMMDD format
			Date	To Date from Request Body
11	branchCode	String	Request	Branch code from request Body
			branch Code	

Array Elements of cardOrderEnqResp Response Object for failure response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each request	
2	respCode	String	Response Code	
3	respMsg	String	Response Message	
4	actionCode	String	Execution	E

URL: http<s>://<ip>:<port>/app/rest/v1.0/cardordereng

NOTE: -Only 50 records can be enquired at a time.

Validation Request:



```
"instCode": "CLNT",
"reqMsgld": "201951968545010001",
"pFlag":"s",
"cardOrderEngReg":[
"reqld": "201908311919300010",
"actionCode":"V",
"fromDate":"20191016",
"toDate":"20191016",
"branchCode": "0001",
"startRecordNo":"1",
"endRecordNo":"10"
}
]}
Validation Success Response:
{
{
    "respCode": "901",
     "respMsg": "Request Processed.",
  "processCode": 103,
  "instCode": "CLNT",
  "regld": "201908311919300010",
 "reqMsgId": "201951968545010001",
  "cardOrderEngRes": {
  "totalRecord":"200",
    "cardOrderEngResp": [
        "regld": "201908311919300010",
        "respCode": "00",
        "respMsg": "Card Order Enquiry - Validation Done",
        "actionCode": "V",
        "fromDate": "20191016",
        "toDate": "20191016",
        "branchCode": "0001"
      }
    1
Execution Request:
"instCode": "CLNT",
"reqMsgld": "201951968545010001",
"pFlag":"s",
"cardOrderEnqReq":[
"regld": "201908311919300008",
"actionCode":"E",
"invoiceNo":"000000000082"
```



```
]}
Execution Success Response:
{
        "respCode": "901",
        "respMsg": "Request Processed.",
 "processCode": 103,
  "instCode": "CLNT",
  "regld": "201308811617309090",
 "reqMsgld": "201951968545010001",
  "cardOrderEnqRes": {
    "cardOrderEnqResp": [
        "reqld": "201308811617309090",
        "respCode": "00",
        "respMsg": "Card order Enquiry Processed Successfully",
        "actionCode": "E",
        "responseBuff": [
            "invoiceNo": "00000001607",
            "cardCount": "1",
            "reqDate": "20191031",
            "startBatch": "0",
            "endBatch": "0",
            "cardProduct": "MAMC",
            "branchDes": "CLNT BRANCH",
             "orderStatusDesc": "Card Order Placed, But not yet processed"
        ]
      }
Failure Response:
{
        "respCode": "901",
        "respMsg": "Request Processed.",
  "processCode": 103,
  "instCode": "CLNT",
"reqMsgld": "201951968545010001",
  "cardOrderEngRes": {
  "cardOrderEnqResp": [
      "regld": "201908271919300000",
      "respCode": "01",
```



```
"respMsg": "Given crdorder record not found",

"actionCode":"E"

},

{
    "reqId": "201908271919300000",
    "respCode": "01",
    "respMsg": "Given crdorder record not found",

"actionCode":"E"

}

]

}
```

6. Card status Change

Using card card status change API, specific card's status can be changed.

Request Format:

Sno	Field	Max Length	Mandatory?	DataType	Description	Comments
1	instCode	4	М	AN	Institution Code	
2	cardStatusChangeReq	1-50	М	Array	List of requests	Array of Object
3	pFlag	0-1	0	А	S	If S, system will pocess synchronously else async
4	reqMsgld	18	M	String	Request Message Id	
5	makerId	0-50	0	String	Maker User Details	
6	checkerId	0-50	0	String	Checker User Details	
7	approverId	0-50	0	String	Approver Details	

Array Elements of cardStatusChangeReq Object:

S. No	Field	Min-Max Length	Mandatory?	DataType	Description	Comments
1	actionCode	1	M	A	Validation or Excecution	V or E
2	vpan	15 - 19	М	AN	VPAN	
3	statusDesc	4 - 20	M	A	New card status. It should be in one of the below: LOST STOLEN DAMAGE TEMPBLOCK TEMPUNBLOCK	



					INSTAKITDAMAGE	
4	reason	0-256	0	ANS	Reason for card status change	
5	reqld	18	М	N	Request id of each request	

Response Format:

S.No.	Field	Data Type	Description	Comments
1	instCode	String	Institution Code	
2	cardStatusChangeRes	JSON Object	JSON Object	
3	processCode	Number	Process id of each request	
4	reqMsgld	String	Request Message Id	
5	respCode	String	Response Code	
6	respMsg	String	Response message	

Elements of cardStatusChangeRes Object for response

S.No.	Field	Description	DataType	Comments
1	cardStatusChangeResponse	List of response	Array	Array of Object

Array Elements of cardStatusChangeResponse Object for success response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each request	
2	respCode	String	Response Code	
3	respMsg	String	Response Message	
4	actionCode	String	Validation or Execution	V or E
5	vpan	String	VPAN	vpan
6	statusDesc	String	Status Description	

Array Elements of cardStatusChangeRes Object for failure response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	String Request id of each	
			request	
2	respCode	String	Response Code	
3	respMsg	String	Response Message	
4	actionCode	String	Validation or	V or E
			Execution	



Status Details:

Status Description	Statcode
LOST	04
STOLEN	05
DAMAGE	10
TEMPBLOCK	06
TEMPUNBLOCK	Card previous status
INSTAKITDAMAGE	21

URL: http<s>://<ip>:<port>/app/rest/v1.0/changecardstatus

```
Validation Request:
"instCode": "CLNT",
"reqMsgld": "201951968545010001",
"pFlag":"s",
"cardStatusChangeReq":[
"reqld": "201908311919300011",
"actionCode":"V",
"vpan":"CLNT0000001060",
"statusDesc":"LOST",
"reason": "lost"
}
]}
Validation Response:
{
        "respCode": "901",
        "respMsg": "Request Processed.",
 "processCode": 106,
  "instCode": "CLNT",
"reqMsgld": "201951968545010001",
  "regld": "201908311919300011",
  "cardStatusChangeRes": {
    "cardStatusChangeResponse": [
        "reqld": "201908311919300011",
        "respCode": "00",
        "respMsg": "Validation done successfully",
        "actionCode": "V",
        "vpan": "CLNT0000001060",
        "statusDesc": "LOST"
      }
  }
```

Execution Request:



```
"instCode": "CLNT",
"pFlag":"s",
"reqMsgId": "201951968545010001",
"cardStatusChangeReq":[
"reqld": "201908311919300012",
"actionCode":"E",
"vpan":"CLNT0000001060",
"statusDesc":"LOST",
"reason": "lost"
}
]}
Execution Response:
{
        "respCode": "901",
        "respMsg": "Request Processed.",
"processCode": 106,
  "instCode": "CLNT",
  "reqMsgId": "201951968545010001",
  "regld": "201908311919300012",
  "cardStatusChangeRes": {
    "cardStatusChangeResponse": [
      {
        "regld": "201908311919300012",
        "respCode": "00",
        "respMsg": "Record Processed Sucessfully",
        "actionCode": "E",
        "vpan": "CLNT0000001060",
        "statusDesc": "LOST"
      }
    ]
 }
Failure Response:
{
        "respCode": "901",
        "respMsg": "Request Processed.",
"processCode": 106,
  "instCode": "CLNT",
  "reqMsgld": "201911071595217885",
  "regld": "201908711919300011",
  "cardStatusChangeRes": {
    "cardStatusChangeResponse": [
        "regld": "201908711919300011",
        "respCode": "01",
        "respMsg": "Status[04] change is not allowed for this card[CLNT0000001060]",
         "actionCode":"E"
```



```
}
]
}
}
```

7. Customer update

Customer update API is used to update customer's detail and KYC details like name, address, mobile number, email address etc.

Request Format:

Sno	Field	Max	Mandatory?	DataType	Description	Comments
		Length				
1	instCode	4	М	AN	Institute Code	
2	custUpdateReq	1-50	М	Array	List of req	Array of Object
3	pFlag	0-1	0	А	S	If S, system will pocess synchronously else async
4	reqMsgId	18	M	String	Request Message Id	
5	makerId	0-50	0	String	Maker User Details	
6	checkerId	0-50	0	String	Checker User Details	
7	approverId	0-50	0	String	Approver Details	

Array Elements of custUpdateReq Object:

SNo	Field	Max Length	Mandatory?	DataType	Description	Comments
1	actionCode	1	M	А	Validation or Execution	V or E
2	custCode	0 - 10	С	AN	Customer Code	
3	Title	0 - 4	0	AN	Title of User	
4	firstName	0-50	0	AN	First name of user	
5	lastName	0-50	0	AN	Last name of user	
6	dateOfBirth	0 - 8	0	Date	Date of Birth	
7	Gender	1 - 1	0	А	Gender	
8	married	1 - 1	0	А	Marital Status	
9	emailId	0-64	0	ANS	Email Id	
10	addressLine0	0-75	0	ANS	Home Address 0	
11	addressLine1	0-35	0	ANS	Home Address 1	

Corte	Cortex API specification - Prepaid							
12	addressLine2	0-35	0	ANS	Home Address 2			
13	addressLine3	0-35	0	ANS	Home Address 3			
14	homeCity	0-40	0	ANS	Home City			
15	homeCountry	0-20	0	AN	Home State/Province			
16	homeCountryCode	0-3	0	N	Home Country Code			
17	homeTel	0-20	0	N	Home Telephone			
18	homePostCode	0-10	0	AN	Home Postal			
19	Pobox	0-8	0	AN	PO Box Number			
20	workAddRLine1	0-30	0	AN	Work address 1			
21	workAddRLine2	0-30	0	AN	Work address 2			
22	workAddRLine3	0-30	0	AN	Work address 3			
23	workCity	0-40	0	AN	Work city			
24	workCountry	0-20	0	AN	Work State/Province			
25	workCountyCode	0-3	0	N	Work Country Code			
26	workTel	0-20	0	N	Work Telephone			
27	workPostCode	0-10	0	AN	Work postal			
28	idNumber	0-12	0	AN	ld Number			
29	nationalld	0-22	0	AN	National Id Number			
30	mobNo	0-12	0	N	Mobile Number			
31	reqld	18	М	N	ld of each request			
32	accNo	1-28	С	AN	Account Number			
33	kycTypeId	1	0	N	Customer KYC: 1: NOKYC 2: LOW-KYC 3: FULL-KYC			

Note: 'Either Account Number or Customer Code is required to update customer details.

Response Format:

S.No.	Field	Data Type	Description	Comments
1	instCode	String	Institution Code	
2	custUpdateRes	JSON Object	JSON Object	
3	processCode	Number	Process id of each request	

4	reqMsgld	String	Request Message Id	
5	respCode	String	Response Code	
6	respMsg	String	Response message	

Elements of custUpdateRes Object for response

S.No.	Field	Description	DataType	Comments
1	custUpdateResponse	List of response	Array	Array of Object

Array Elements of custUpdateResponse Response Object for success response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each	
			request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	
4	actionCode	String	Validation or	
			Execution	
5	custCode	String	Cust Code	If CustCode is provided in request,same will be in response
6	marriedStatus	String	Marital Status	
7	emailld	String	Email Id	
8	accountNo	String	Account Number	If AccountNo is provided in request,same will be in response

Array Elements of custUpdateResponse Response Object for failure response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each	
			request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	
4	actionCode	String	Validation or	
			Execution	

URL: http<s>://<ip>:<port>/app/rest/v1.0/updatecustprofile

Validation Request:

```
{
"instCode": "CLNT",
"reqMsgId": "201951968545010001",
"custUpdateReq":[
{
```



```
"regld": "201908271919300000",
"actionCode":"V",
"custCode": "000000100106",
"title":"Ms",
"firstName":"jabc",
"lastName": "def",
"dateOfBirth": "19940507",
"gender":"F",
"married": "S",
"emailId":"test@xyz.com",
"addressLine0": "ADDR0",
"addressLine1": "ADDR1",
"addressLine2": "ADDR2",
"addressLine3":"ADDR3",
"homeCity": "Chennai",
"homeCountry":"TN",
"homeCountryCode": "356",
"homeTel": "987654321212",
"homePostCode": "675432",
"pobox":"89765432",
"workAddRLine1": "WADDR1",
"workAddRLine2":"WADDR2",
"workAddRLine3": "WADDR3",
"workCity":"Chennai",
"workCountry":"TNB",
"workCountryCode": "356",
"workTel":"789765432134",
"workPostCode":"674312",
"idNumber": "12121",
"nationalId": "90909090",
"mobNo":"90909090909"
},
"regld": "201908271919300001",
"actionCode":"V",
"custCode": "000000100106",
"title":"Ms",
"firstName":"jabc",
"lastName": "def",
"dateOfBirth": "19940507",
"gender":"F",
"married": "S",
"emailId":"test@xyz.com",
"addressLine0": "ADDR0",
"addressLine1": "ADDR1",
"addressLine2": "ADDR2",
"addressLine3":"ADDR3",
"homeCity": "Chennai",
"homeCountry":"TN",
"homeCountryCode": "356",
```



```
"homeTel": "987654321212",
"homePostCode": "675432",
"pobox":"89765432",
"workAddRLine1": "WADDR1",
"workAddRLine2":"WADDR2",
"workAddRLine3": "WADDR3",
"workCity":"Chennai",
"workCountry":"TNB",
"workCountryCode": "356",
"workTel":"789765432134",
"workPostCode":"674312",
"idNumber": "12121",
"nationalId": "90909090",
"mobNo":"90909090909"
]}
Validation Response:
{
"respCode": "901",
"respMsg": "Request Processed.",
"processCode": 109,
  "instCode": "CLNT",
"reqMsgId": "201951968545010001",
  "custUpdateRes": {
"custUpdateResponse": [
    {
      "regld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Customer Validation Done",
      "actionCode": "V",
      "custCode": "000000100106",
      "marriedStatus": "S",
      "emaild": "test@xyz.com"
      "regld": "201908271919300001",
      "respCode": "00",
      "respMsg": "Customer Validation Done",
      "actionCode": "V",
      "custCode": "000000100106",
      "marriedStatus": "S",
      "emailId": "test@xyz.com"
Execution Request:
"instCode": "CLNT",
```



```
"reqMsgld": "201951968545010001",
"custUpdateReq":[
"regld": "201908271919300000",
"actionCode":"E",
"custCode": "000000100106",
"title":"Ms",
"firstName":"jabc",
"lastName": "def",
"dateOfBirth": "19940507",
"gender":"F",
"married": "S",
"emailId":"test@xyz.com",
"addressLine0": "ADDR0",
"addressLine1": "ADDR1",
"addressLine2": "ADDR2",
"addressLine3":"ADDR3",
"homeCity": "Chennai",
"homeCountry":"TN",
"homeCtry": "356",
"homeTel": "987654321212",
"homePostCode": "675432",
"pobox":"89765432",
"workAddRLine1": "WADDR1",
"workAddRLine2":"WADDR2",
"workAddRLine3": "WADDR3",
"workCity":"Chennai",
"workCountry":"TNB",
"workCtry": "356",
"workTel":"789765432134",
"workPostCode":"674312",
"idNumber": "12121",
"nationalId": "90909090",
"mobNo":"90909090909"
},
"regld": "201908271919300001",
"actionCode":"E",
"custCode": "00000100106",
"title":"Ms",
"firstName":"jabc",
"lastName": "def",
"dateOfBirth":"19940507",
"gender":"F",
```



```
"married": "S",
"emailId":"test@xyz.com",
"addressLine0": "ADDR0",
"addressLine1": "ADDR1",
"addressLine2": "ADDR2",
"addressLine3": "ADDR3",
"homeCity": "Chennai",
"homeCountry":"TN",
"homeCtry": "356",
"homeTel":"987654321212",
"homePostCode": "675432",
"pobox":"89765432",
"workAddRLine1": "WADDR1",
"workAddRLine2":"WADDR2",
"workAddRLine3": "WADDR3",
"workCity":"Chennai",
"workCountry":"TNB",
"workCtry": "356",
"workTel":"789765432134",
"workPostCode":"674312",
"idNumber": "12121",
"nationalId": "90909090",
"mobNo":"90909090909"
}
]}
Execution Response:
"respCode": "901",
"respMsg": "Request Processed.",
"processCode": 109,
  "instCode": "CLNT",
"reqMsgId": "201951968545010001",
  "custUpdateRes": {
  "custUpdateResponse": [
      "regld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Customer Updated",
      "actionCode": "E",
      "custCode": "000000100106",
      "marriedStatus": "S",
      "emailId": "test@xyz.com"
    },
      "regld": "201908271919300001",
```



```
"respCode": "00",
      "respMsg": "Customer Updated",
      "actionCode": "E",
      "custCode": "000000100106",
      "marriedStatus": "S",
      "emailId": "test@xyz.com"
    }
  ]
}
Failure Response:
"respCode": "901",
"respMsg": "Request Processed.",
  "processCode": 109,
  "instCode": "CLNT",
 "reqMsgld": "201951968545010001",
  "custUpdateRes": {
  "custUpdateResponse": [
      "reqld": "201908271919300000",
      "respCode": "01",
      "respMsg": "Error in parse record",
     "actionCode":"E"
    },
      "reqld": "201908271919300001",
      "respCode": "01",
      "respMsg": "Error in parse record",
      "actionCode":"E"
    }
  1
}
```



8. Card Replacement (using Non-perso or Insta-kit)

Card replacement API used to replace a cancelled (hot) card using insta-kit or non-perso card.

SN	Field	Max Length	Mandatory	Data	Descrip tion	Comments
0				Туре		
1	instCode	4	M	AN	Institut	
					ion	
					Code	
2	cardReplacement	1-50	M	Array	List of	Array of Object
	NonPersoReq				request	
	·				S	
3	pFlag	0-1	0	Α	S	If S, system will
						pocess
						synchronously else
						async
4	reqMsgId	18	М	String	Reques	
					t	
					Messag	
					e Id	
5	makerId	0-50	0	String	Maker	
					User	
					Details	
6	checkerId	0-50	0	String	Checke	
					r User	
					Details	
7	approverId	0-50	0	String	Approv	
					er	
					Details	

Array Elements of cardReplacementNonPersoReq Object:

S.No	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	actionCode	1 - 1	М	Α	Validation	V or E
					or	
					Execution	
2	oldVpan	15 - 19	М	AN	Old Vpan	
					Number	
3	newVpan	15 - 19	М	AN	New Vpan	
					Number	
4	accountNo	0 - 28	0	AN	Account	
					Number	
5	reqld	18 - 18	М	N	Id of each	
					request	

Response Format:

S.No.	Field	Data	Description	Comments
		Type		



1	instCode	String	Institution Code
2	cardReplaceNonPersoRes	JSON Object	JSON Object
3	processCode	Number	Process id of each request
4	reqMsgld	String	Request Message Id
5	respCode	String	Response Code
6	respMsg	String	Response message

Elements of cardReplaceNonPersoRes Object for response

S.No.	Field	Description	DataType	Comments
1	cardReplaceNonPersoResponse	List of response	Array	Array of
				Object

Array Elements of cardReplaceNonPersoResponse Response Object for success response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	
4	actionCode	String	Validation or Execution	
5	oldVpan	String	Old vpan	
6	newVpan	String	New vpan	
7	accountNo	String	Account number	

Array Elements of cardReplaceNonPersoResponse Response Object for failure response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each	
			request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	
4	actionCode	String	Validation or	V or E
			Execution	

URL: http<s>://<ip>:<port>/app/rest/v1.0/cardreplacenonperso

Validation Request:

{



```
"instCode": "CLNT",
"reqMsgld": "201951968545010001",
"cardReplacementNonPersoReq":[
"reqld": "201908271919300000",
"actionCode":"V",
 "oldVpan": "MYMC00000000333",
  "newVpan": "MYMC000000000762",
"accountNo":"000000000003"
]}
Validation Response:
 "respCode": "901",
"respMsg": "Request Processed.",
 "processCode": 110,
  "instCode": "CLNT",
"reqMsgld": "201951968545010001",
  "cardReplaceNonPersoRes": {
  "cardReplaceNonPersoResponse": [
      "reqld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Card Replacement Validation done Successfully",
      "actionCode": "V",
      "oldVpan": "MYMC00000000333",
      "newVpan": "MYMC000000000762",
      "accountNo": "000000000000 "
 1
Execution Request:
"respCode": "00",
"respMsg": "Request Processed Successfully.",
"processCode": 110,
  "instCode": "CLNT",
"reqMsgId": "201951968545010001",
  "cardReplaceNonPersoRes": {
"cardReplacementNonPersoReq":[
"regld": "201908271919300000",
"actionCode":"E",
 "oldVpan":"MYMC00000000333",
  "newVpan": "MYMC000000000762",
"accountNo":"0000000000003"
}
```



```
]}
Execution Response:
"respCode": "901",
"respMsg": "Request Processed.",
"processCode": 110,
  "instCode": "CLNT",
"reqMsgId": "201951968545010001",
  "cardReplaceNonPersoRes": {
 "cardReplaceNonPersoResponse": [
      "reqld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Card Replacement Done Successfully",
      "actionCode": "E",
      "oldVpan": "MYMC00000000333",
      "newVpan": "MYMC000000000762",
      "accountNo": "000000000000 "
 ]
Failure Response:
"respCode": "901",
"respMsg": "Request Processed.",
"processCode": 110,
  "instCode": "CLNT",
"reqMsgId": "201951968545010001",
  "cardReplaceNonPersoRes": {
  "cardReplaceNonPersoResponse": [
    {
      "reqld": "201908271919300000",
      "respCode": "01",
      "respMsg": "Already Replaced Card: vpan: [MYMC00000000077]"
    },
      "regld": "201908271919300001",
      "respCode": "01",
      "respMsg": "Can't find vpan:[MYMC000000000078]"
    }
Failure Res:
"respCode": "901",
"respMsg": "Request Processed.",
"processCode": 110,
  "instCode": "CLNT",
```



9. Card Order / Card Issue – Standard-perso

Card order standard perso API used to issua a card to a customer.

Sno	Field	Max	Mandatory?	Data	Description	Comments
		Length		Type		
1	instCode	4	M	AN	Institute	
					Code	
2	cardOrderStandardPersoReq	1-50	M	Array	List of	Array of
					requests	Object
3	pFlag	0-1	0	Α	S	If S, system
						will pocess
						synchronously
						else async
4	reqMsgld	18	M	String	Request	
					Message Id	
5	makerId	0-50	0	String	Maker User	
					Details	
6	checkerId	0-50	0	String	Checker	
					User	
					Details	
7	approverId	0-50	0	String	Approver	
					Details	

Array Elements of cardOrderStndrdPersoReq Object:

S.	Field	Max	Mandatory?	Data	Description	Comments
No		Length		Туре		
1	actionCode	1	M	А	Validation or Execution	V or E
2	branchCode	1-8	М	AN	Branch Code	
3	cardProduct	1-4	М	AN	Card Product	MAMX(for amex card)
4	custCode	1-10	М	AN	Customer Code	
5	custType	0-5	0	N	Customer Type	

_	
	- 29
	- 3

6	title	0-4	0	ANS	Title of customer	
7	firstName	2-50	M	ANS	Customer's first name	
8	lastName	1-50	М	ANS	Customer's last name	
9	birthDate	0-8	0	Date	Birth date	
10	gender	1 - 1	М	Α	Gender	
11	marriedStatus	1 - 1	М	Α	Marital Status	
12	emailId	0-64	0	AN	Email Id	
13	profession	0-5	0	N	Profession	
14	homeAddr1	0-35	0	ANS	Home Address 1	
15	homeAddr2	0-35	0	ANS	Home Address 2	
16	homeAddr3	0-35	0	ANS	Home Address 3	
17	homeCity	0-40	0	ANS	Home City	
18	homeCounty	0-20	0	AN	Home State/Province	
19	homeCountry	0-3	0	N	Home Country Code	
20	homeTel	0-20	0	N	Home Telephone	
21	homePostalCode	0-10	0	AN	Home postal code	
22	роВох	0-8	0	AN	Ро Вох	
23	workAddr1	0-30	0	AN	Work address 1	
24	workAddr2	0-30	0	AN	Work address 2	
25	workAddr3	0-30	0	AN	Work address 3	
26	workCity	0-40	0	AN	Work city	
27	workCounty	0-20	0	AN	Work State/Province	
28	workCountry	0-3	0	N	Work Country Code	
29	workTel	0-20	0	N	Work telephone	
30	workPostalCode	0-10	0	AN	Work postal code	
31	identificationNumber	0-12	0	AN	Id number	
32	nationalId	0- 22	0	AN	National Identity	
33	mobileNumber	0- 20	0	N	Mobile number	
34	fax	0- 20	0	AN	Fax	
35	countryName	0- 25	0	AN	Country Name	
36	nationality	0- 50	0	AN	Nationality	
37	suitNumber	0- 8	0	AN	Suit Number	
38	accountType	1 - 2	М	AN	Account Type	
39	accountNo	1 - 28	M	AN	Account Number	



40	accountStatus	0-	0	N	Account status	7
		2				
41	embossName	0-	0	ANS	Emboss name	
		25				
42	reqld	1-	М	N	Id of each request	
		8				

Response Format:

S.No.	Field	Description	Comments
1	instCode	Institution	
		Code	
2	cardOrderStdPersoRes	JSON Object	JSON Object
3	processCode	Number	Process id of each request
4	reqMsgld	String	Request Message Id
5	respCode	String	Response Code
	·		
6	respMsg	String	Response message

Elements of cardOrderStdPersoRes Object for response

	S.No. Field		Description	DataType	Comments
-	1	cardOrderStdPerResponse	List of response	Array	Array of Object

Array Elements of cardOrderStdPerResponse Object for success response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	
4	clrPan	String	Clear Pan value encrypted by Authman session key	It will be generated only for execution request not for validation.
				Clear Pan value encrypted by Authman session key



String Vpan It will be generated only for execution request not for validation.					
execution request not for validation. 6 panDispaly String Pan Display It will be generated only for execution request not for validation. 7 encryptedPan String Ecncryted Pan It will be generated only for execution request not for validation. 8 iiid String Iid It will be generated only for execution request not for validation. 9 expDate String Expiry Date It will be generated only for execution request not for validation. 10 actionCode String Action code 11 branchCode String Branch Code 12 cardProduct String Card Product 13 firstName String String First Name 14 lastName String Gender 16 marriedStatus String Marital Status 17 accountType String Account Number	5	vpan	String	Vpan	
not for validation.					_
6 panDispaly String Pan Display It will be generated only for execution request not for validation. 7 encryptedPan String Ecncryted Pan It will be generated only for execution request not for validation. 8 iid String Iid It will be generated only for execution request not for validation. 9 expDate String Expiry Date It will be generated only for execution request not for validation. 10 actionCode String Action code 11 branchCode String Branch Code 12 cardProduct String Card Product 13 firstName String First Name 14 lastName String Iast Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number					·
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not for validation. FencryptedPan String Ecncryted Pan It will be generated only for execution request not for validation. It will be generated only for execution request not for validation. It will be generated only for execution request not for validation. Expiry Date Expiry Date It will be generated only for execution request not for validation. Expiry Date It will be generated only for execution request not for validation. Action code String Expiry Date It will be generated only for execution request not for validation. Card Product String Expiry Date It will be generated only for execution request not for validation. Card Product String Expiry Date It will be generated only for execution request not for validation. Card Product String Expiry Date It will be generated only for execution request not for validation. Card Product String Expiry Date It will be generated only for execution request not for validation. It will be generated only for execution request not for validation.					•
7 encryptedPan String Ecncryted Pan It will be generated only for execution request not for validation. 8 iid String Ilid It will be generated only for execution request not for validation. 9 expDate String Expiry Date It will be generated only for execution request not for validation. 10 actionCode String Action code 11 branchCode String Branch Code 12 cardProduct String Card Product 13 firstName String First Name 14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Number					
generated only for execution request not for validation. 8 iid String Iid It will be generated only for execution request not for validation. 9 expDate String Expiry Date It will be generated only for execution request not for validation. 10 actionCode String Action code 11 branchCode String Branch Code 12 cardProduct String Card Product 13 firstName String First Name 14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Number					
execution request not for validation. 8 iid String Iid It will be generated only for execution request not for validation. 9 expDate String Expiry Date It will be generated only for execution request not for validation. 10 actionCode String Action code 11 branchCode String Branch Code 12 cardProduct String Card Product 13 firstName String First Name 14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Number	7	encryptedPan	String	Ecncryted Pan	
String Iid It will be generated only for execution request not for validation.					
8 iid String lid It will be generated only for execution request not for validation. 9 expDate String Expiry Date It will be generated only for execution request not for validation. 10 actionCode String Action code 11 branchCode String Branch Code 12 cardProduct String Card Product 13 firstName String First Name 14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number					
generated only for execution request not for validation. 9 expDate String Expiry Date It will be generated only for execution request not for validation. 10 actionCode String Action code 11 branchCode String Branch Code 12 cardProduct String Card Product 13 firstName String First Name 14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number					
execution request not for validation. 9 expDate String Expiry Date It will be generated only for execution request not for validation. 10 actionCode String Action code 11 branchCode String Branch Code 12 cardProduct String Card Product 13 firstName String First Name 14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number	8	iid	String	lid	· · · · · ·
not for validation.					
9 expDate String Expiry Date It will be generated only for execution request not for validation. 10 actionCode String Action code 11 branchCode String Branch Code 12 cardProduct String Card Product 13 firstName String First Name 14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number					•
generated only for execution request not for validation. 10 actionCode String Action code 11 branchCode String Branch Code 12 cardProduct String Card Product 13 firstName String First Name 14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number					
execution request not for validation. 10 actionCode String Action code 11 branchCode String Branch Code 12 cardProduct String Card Product 13 firstName String First Name 14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number	9	expDate	String	Expiry Date	· · · · · ·
10actionCodeStringAction code11branchCodeStringBranch Code12cardProductStringCard Product13firstNameStringFirst Name14lastNameStringLast Name15genderStringGender16marriedStatusStringMarital Status17accountTypeStringAccount Type18accountNoStringAccount Number					
10actionCodeStringAction code11branchCodeStringBranch Code12cardProductStringCard Product13firstNameStringFirst Name14lastNameStringLast Name15genderStringGender16marriedStatusStringMarital Status17accountTypeStringAccount Type18accountNoStringAccount Number					·
11branchCodeStringBranch Code12cardProductStringCard Product13firstNameStringFirst Name14lastNameStringLast Name15genderStringGender16marriedStatusStringMarital Status17accountTypeStringAccount Type18accountNoStringAccount Number					not for validation.
12 cardProduct String Card Product 13 firstName String First Name 14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number	-				
13 firstName String First Name 14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number					
14 lastName String Last Name 15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number	-		String		
15 gender String Gender 16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number		firstName	String	First Name	
16 marriedStatus String Marital Status 17 accountType String Account Type 18 accountNo String Account Number			String		
17 accountType String Account Type 18 accountNo String Account Number		•	String		
18 accountNo String Account Number	16	marriedStatus	String	Marital Status	
	17	accountType	String	Account Type	
19 embossName String Emboss Name	18	accountNo	String	Account Number	
	19	embossName	String	Emboss Name	

Array Elements of cardOrderStdPerResponse Object for failure response:

Sno	Field	Data Type	Description	Comments
1	reqld String		Request id of each	
		request		
2	respCode	String	Response Code	
3	respMsg String		Response message	
4	actionCode	String	Validation or Execution	V or E

URL: http<s>://<ip>:<port>/app/rest/v1.0/cardorderstanperso

Validation Request:

```
{
"instCode": "CLNT",
"reqMsgld": "201951968545010001",
"cardOrderStdPersoReq":[
{
"reqId": "201908271919300000",
"actionCode":"V",
"branchCode":"0001",
```



```
"cardProduct":"MYMC",
"firstName": "CUSTOMER",
"lastName": "CLNT",
"gender": "F",
"marriedStatus": "S",
"accountType": "12",
"accountNo": "000000012020301",
"embossName": "CORTEX"
},
"regld": "201908271919300001",
"actionCode":"V",
"branchCode":"0001",
"cardProduct": "MYMC",
"firstName": "CUSTOMER",
"lastName": "CLNT",
"gender": "F",
"marriedStatus": "S",
"accountType": "12",
"accountNo": "000000012020302",
"embossName": "CORTEX"
}
]}
Validation Response:
{
  "respCode": "901",
"respMsg": "Request Processed.",
"processCode": 113,
  "instCode": "CLNT",
"reqMsgId": "201951968545010001",
  "cardOrderStdPersoRes": {
 "cardOrderStdPerResponse": [
      "regld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Validation Done – Given customer name and account linked customer name
are matched",
      "actionCode": "V",
      "branchCode": "0001",
      "cardProduct": "MYMC",
      "firstName": "CUSTOMER",
      "lastName": "CLNT",
      "gender": "F",
      "marriedStatus": "S",
      "accountType": "12",
      "accountNo": "000000012020301",
      "embossName": "CORTEX"
    },
```



```
"regld": "201908271919300001",
      "respCode": "00",
      "respMsg": "Validation Done – Given customer name and account linked customer name
are matched",
      "actionCode": "V",
      "branchCode": "0001",
      "cardProduct": "MYMC",
      "firstName": "CUSTOMER",
      "lastName": "CLNT",
      "gender": "F",
      "marriedStatus": "S",
      "accountType": "12",
      "accountNo": "000000012020302",
      "embossName": "CORTEX"
    }
 ]
Execution Request:
"instCode": "CLNT",
"regMsgld": "201951968545010001",
"cardOrderStdPersoReq":[
"regld": "201908271919300000",
"actionCode":"E",
"branchCode":"0001",
"cardProduct":"MYMC",
"firstName": "CUSTOMER",
"lastName": "CLNT",
"gender": "F",
"marriedStatus": "S",
"accountType": "12",
"accountNo": "000000012020301",
"embossName": "CORTEX"
},
"reqld": "201908271919300001",
"actionCode":"E",
"branchCode":"0001",
"cardProduct":"MYMC",
"firstName": "CUSTOMER",
"lastName": "CLNT",
"gender": "F",
"marriedStatus": "S",
"accountType": "12",
"accountNo": "000000012020302",
"embossName": "CORTEX"
}
```



```
]}
Execution Response:
{
  "respCode": "901",
"respMsg": "Request Processed.",
  "processCode": 113,
  "instCode": "CLNT",
"reqMsgId": "201951968545010001",
  "cardOrderStdPersoRes": {
  "cardOrderStdPerResponse": [
    {
      "reqld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Card Order Standard Perso Processed Successfully",
      "clrPan": " ",
      "vpan": "MYMC000000000895",
      "panDispaly": "223005_6125",
      "encryptedPan": "D56087C92BA73910829",
      "iid": "223005",
      "actionCode": "E",
      "branchCode": "0001",
      "cardProduct": "MYMC",
      "firstName": "CUSTOMER",
      "lastName": "CLNT",
      "gender": "F",
      "marriedStatus": "S",
      "accountType": "12",
      "accountNo": "000000012020301",
      "embossName": "CORTEX"
    },
      "reqld": "201908271919300001",
      "respCode": "00",
      "respMsg": "Card Order Standard Perso Processed Successfully",
      "clrPan": " ",
      "vpan": "MYMC000000000903",
      "panDispaly": "223005_9448",
      "encryptedPan": "D8653E6F820D2E9C572",
      "iid": "223005",
      "actionCode": "E",
      "branchCode": "0001",
      "cardProduct": "MYMC",
      "firstName": "CUSTOMER",
      "lastName": "CLNT",
      "gender": "F",
      "marriedStatus": "S",
      "accountType": "12",
      "accountNo": "000000012020302",
      "embossName": "CORTEX"
```



```
]
Failure Response:
  "respCode": "901",
"respMsg": "Request Processed.",
"processCode": 113,
  "instCode": "CLNT",
"reqMsgld": "201951968545010001",
  "cardOrderStdPersoRes": {
  "cardOrderStdPerResponse": [
      "reqld": "201908271919300000",
      "respCode": "01",
      "respMsg": "Error: Customer Firstname and Lastname mismatch",
     "actionCode":"E"
    },
      "regld": "201908271919300001",
      "respCode": "01",
      "respMsg": "Error: Customer Firstname and Lastname mismatch",
      "actionCode":"E"
   }
 ]
```

10. Card Linking/Activation

Using card link API, insta-kit or non-perso card can be linked to account and customer (after creating customer and account).

Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	M	AN	Institute Code	

Cortex API specification - Prepaid									
2	cardLinkReq	1-50	M	Array	List of	Array of			
					requests	Object			
3	pFlag	0-1	0	A	S	If S, system will pocess synchronously else async			
4	reqMsgld	18 - 18	М	String	Request Message Id				
5	makerId	0-50	0	String	Maker User Details				
6	checkerld	0-50	0	String	Checker User Details				
7	approverId	0-50	0	String	Approver				

Details

Array Elements of cardLinkReq Object:

Note: Either pan or vpan or custCode should mandatory

S.No	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	reqld	18	M	N	Id of each request	
2	actionCode	1	М	Α	Validation or Execution	
3	vpan	15 - 19	СО	AN	Unique identifier of card	Either pan or vpan should mandatory
4	pan	17-19	СО	N	Full length of Pan	Either pan or vpan should mandatory
5	custCode	1-10	M	AN	Customer Code	
6	custType	0-5	0	N	Customer Type	
7	title	0-4	0	ANS	Title of customer	
8	firstName	1-50	М	ANS	Customer's first name	
9	lastName	1-50	М	ANS	Customer's last name	
10	birthDate	0-8	0	Date	Birth date	
11	gender	1	М	Α	Gender	
12	marriedStatus	1	M	Α	Marital Status	
13	emailId	0-64	0	AN	Email Id	
14	profession	0-5	0	N	Profession	
15	homeAddr1	0-35	С	ANS	Home Address 1	Work address or Home address is mandatory
16	homeAddr2	0-35	С	ANS	Home Address 2	Work address or Home address is mandatory
17	homeAddr3	0-35	С	ANS	Home Address 3	Work address or Home address is mandatory
18	homeCity	0-40	С	ANS	Home City	

Corte	x API specification - I	Prepaid				Ci
19	homeCounty	0-20	С	AN	Home State/Province	
20	homeCountry	0-3	С	N	Home Country Code	
21	homeTel	0-20	С	N	Home Telephone	
22	homePostalCode	0-10	С	AN	Home postal code	
23	роВох	0-8	0	AN	Ро Вох	
24	workAddr1	0-30	С	AN	Work address 1	Work address or Home address is mandatory
25	workAddr2	0-30	С	AN	Work address 2	Work address or Home address is mandatory
26	workAddr3	0-30	С	AN	Work address 3	Work address or Home address is mandatory
27	workCity	0-40	С	AN	Work city	
28	workCounty	0-20	С	AN	Work State/Province	
29	workCountry	0-3	С	N	Work Country Code	
30	workTel	0-20	С	N	Work telephone	
31	workPostalCode	0-10	С	AN	Work postal code	
32	identificationNumber	0-12	0	AN	Id number	
33	nationalld	0-22	0	AN	National Identity	
34	mobileNumber	0-20	0	N	Mobile number	
35	fax	0-20	0	AN	Fax	
36	countryName	0-25	0	AN	Country Name	
37	nationality	0-50	0	AN	Nationality	
38	suitNumber	0-8	0	AN	Suit Number	
39	accountType	0-2	0	AN	Account Type	
40	accountNo	0-28	0	AN	Account Number	
41	accountStatus	0-2	0	N	Account status	
42	embossName	0-25	0	ANS	Emboss name	
43	reqld	1-8	М	N	Id of each request	
44	isClearPANRequired	1	0	A	Y or N	If Y, clear PAN will present in response
45	isCVV2Reqired	1	0	А	Y or N	If Y, CVV2 will present in response
46	isSHA256PANRequired	1	0	А	Y or N	If Y, clear PAN hased with SHA256 in response

Response Format:

S.No.	S.No. Field Descr		DataType	Comments
1	instCode	Institution Code	String	
2	cardLinkingRes	JSON Object	JSON Object	
3	processCode	Number	Process id of each request	



	4	reqMsgId	String	Request Message Id	
	5	respCode	String	Response Code	
Ī	6	respMsg	String	Response message	

Elements of cardLinkingRes Object for response

S.No. Field		Description	DataType	Comments
1	cardLinkResp	List of response	Array	Array of
				Object

Array Elements of cardLinkResp Object for success response:

Sno	Field	Description	DataType	Comments
1	reqld	Request id of each	String	
		request		
2	respCode	Response Code	String	
3	respMsg	Response message	String	
4	actionCode	Action Code	String	
5	vpan	Vpan	String	
6	accountNo	Account Number	String	
7	pan	PAN	String	
8	clearPAN	Clear card number	String	Clear Pan value encrypted by Authman session key
9	cvv2	Clear cvv2	String	Cvv2 value encrypted by Authman session key
		Cvv2 value		·
		encrypted by		
		Authman session		
		key		

Array Elements of cardLinkResp Object for failure response:

Sno	Field	Description	DataType	Comments
1	reqld Request id of each		String	
		request		
2	respCode	Response Code	String	
3	respMsg	Response message	String	
4	actionCode	Validation or Execution	String	V or E

URL: http<s>://<ip>:<port>/app/rest/v1.0/cardlink

Validation Request :

{

"instCode": "FIS",

"reqMsgld": "201951968545010001",

"cardLinkReq":[



```
"regld": "201908271919300000",
"actionCode":"V",
 "vpan":"MYMC00000000739",
"accountNo": "0000000000045311",
"pan": "8040",
"firstName": "CUSTOMER",
"lastName": "FIS",
"gender": "F",
"marriedStatus": "S",
"accountType": "12",
"accountNo": "000000012020301",
"embossName": "CORTEX"
}
]}
Validation Response:
{
   "respCode": "901",
   "respMsg": "Request Processed.",
   "processCode": 115,
   "instCode": "FIS",
   "reqMsgld": "201951968545010001",
   "cardLinkingRes": {
   "cardLinkResp": [
      "reqld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Validation done - Given Card is allowed to link with new card",
      "actionCode": "V",
      "vpan": "MYMC000000000739",
      "accountNo": "0000000000045311",
      "pan": "8040"
 1
Execution Request:
"instCode": "FIS",
"reqMsgld": "201951968545010001",
"cardLinkReq":[
"reqld": "201908271919300000",
"actionCode":"E",
 "vpan":"MYMC000000000739",
"accountNo":"0000000000045311",
"pan": "8040",
"accountType": "12",
"accountNo": "000000012020301",
```



```
"embossName": "CORTEX"
}
Execution Response:
{
  "respCode": "901",
  "respMsg": "Request Processed.",
  "processCode": 115,
  "instCode": "FIS",
  "reqMsgld": "201951968545010001",
  "cardLinkingRes": {
  "cardLinkResp": [
      "regld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Card Linking Successful",
      "actionCode": "E",
      "vpan": "MYMC000000000739",
      "accountNo": "000000000045311",
      "pan": "8040"
    }
}
Failure Response:
{
  "respCode": "901",
  "respMsg": "Request Processed.",
  "processCode": 115,
  "instCode": "FIS",
  "reqMsgld": "201951968545010001",
  "cardLinkingRes": {
  "cardLinkResp": [
      "reqld": "201908271919300000",
      "respCode": "01",
      "respMsg": "Given Card – Account is not Linked",
      "actionCode":"E"
    },
      "reqld": "201908271919300001",
      "respCode": "01",
      "respMsg": "Given Card - Account is not Linked",
      "actionCode":"E"
    }
}
```



11. Card Upgrade [Card Product Change]

Card product change is used to change a card's card product (or card type). The change will happen only the Cortex system and no change in the physical card.

Sno	Field	Max Length	Mandatory?	Data	Description	Comments
				Type		
1	instCode	4	M	AN	Institute	
					Code	
2	cardProductChgReq	1-50	M	Array	List of	Array of
					requests	Object
3	pFlag	0-1	0	Α	S	If S, system
						will pocess
						synchronously
						else async
4	reqMsgld	18	M	String	Request	
					Message Id	
5	makerId	0-50	0	String	Maker User	
					Details	
6	checkerId	0-50	0	String	Checker	
					User	
					Details	
7	approverId	0-50	0	String	Approver	
					Details	

Array Elements of cardProductChgReq Object:

S. No	Field	Max	Mandatory?	Data	Description	Comments
		Length		Type		
1	reqId	18	M	N	Id of each	
					request	
2	actionCode	1	M	Α	Validation	
					or Execution	
3	vpan	15 - 19	M	AN	Unique	
					identifier of	
					card	
4	cardProduct	4 - 4	M	AN	Card	
					Product	

Response Format:

S.No.	Field	Description	DataType	Comments
1	instCode	Institution Code	String	
2	cardProductChngRes	JSON Object	JSON Object	
3	processCode	Process id of each request	Number	
4	reqMsgld	Request Message Id	String	



5	respCode	String	Response Code
6	respMsg	String	Response message

Elements of cardProductChngRes Object for response

S.No.	Field	Description	DataType	Comments
1	cardProductChgResp	List of response	Array	Array of Object

Array Elements of cardProductChgResp Object for success response:

Sno	Field	Description	DataType	Comments
1	reqld	Request id of each request	Stirng	
		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		
2	respCode	Response Code	Stirng	
3	respMsg	Response message	Stirng	
4	actionCode	Action Code	Stirng	
5	vpan	Vpan	Stirng	
6	cardProduct	Card Product	Stirng	

Array Elements of cardProductChgResp Object for failure response:

Sno	Field	Description	DataType	Comments
1	reqld Request id of each		Stirng	
		request		
2	respCode	Response Code	Stirng	
3	respMsg	Response message	Stirng	
4	actionCode	String	Validation or Execution	V or E

URL: http<s>://<ip>:<port>/app/rest/v1.0/cardproductchng

```
Validation Request:
"instCode": "MYNT",
"reqMsgld": "201951968545010001",
"cardProductChgReq":[
"regld": "201908271919300000",
"actionCode":"V",
 "vpan": "MYMC00000000143",
"cardProduct":"MYMC"
},
"reqld": "201908271919300001",
"actionCode":"V",
 "vpan": "MYMC00000000143",
"cardProduct":"MYMC"
}
]}
Validation Response:
  "respCode": "901",
```



```
"respMsg": "Request Processed.",
"processCode": 114,
  "instCode": "MYNT",
"reqMsgld": "201951968545010001",
  "reqld": "201908271919300045",
  "cardProductChngRes": {
"cardProductChgResp": [
    {
      "regld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Validation done – Given card is allowed to update the card product",
      "actionCode": "V",
      "vpan": "MYMC00000000143",
      "cardProduct": "MYMC"
    },
      "reqld": "201908271919300001",
      "respCode": "00",
      "respMsg": "Validation done - Given card is allowed to update the card product",
      "actionCode": "V",
      "vpan": "MYMC00000000143",
      "cardProduct": "MYMC"
    }
  ]
}
Execution Request:
"instCode": "MYNT",
"reqMsgld": "201951968545010001",
"cardProductChgReq":[
"regld": "201908271919300000",
"actionCode":"E",
 "vpan": "MYMC00000000143",
"cardProduct":"MYMC"
},
"regld": "201908271919300001",
"actionCode":"E",
 "vpan":"MYMC00000000143",
"cardProduct": "MYMC"
}
]}
Execution Response:
  "respCode": "901",
"respMsg": "Request Processed.",
"processCode": 114,
  "instCode": "MYNT",
"reqMsgId": "201951968545010001",
  "cardProductChngRes": {
"cardProductChgResp": [
    {
```



```
"regld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Card Product Updated",
      "actionCode": "E",
      "vpan": "MYMC00000000143",
      "cardProduct": "MYMC"
    },
      "regld": "201908271919300001",
      "respCode": "00",
      "respMsg": "Card Product Updated",
      "actionCode": "E",
      "vpan": "MYMC00000000143",
      "cardProduct": "MYMC"
    }
  ]
Failure Response:
  "respCode": "901",
"respMsg": "Request Processed.",
"processCode": 114,
  "instCode": "MYNT",
 "reqMsgId": "201951968545010001",
  "cardProductChngRes": {
  "cardProductChgResp": [
      "regld": "201908271919300000",
      "respCode": "01",
      "respMsg": "Can't find vpan:[MYMC00000000144]",
      "actionCode":"E"
    },
      "regld": "201908271919300001",
      "respCode": "01",
      "respMsg": "Can't find vpan:[MYMC00000000144]",
      "actionCode":"E"
    }
Failure Res:
  "respCode": "901",
"respMsg": "Request Processed.",
"processCode": 114,
  "instCode": "MYNT",
"reqMsgld": "201951968545010001",
  "cardProductChngRes": {
  "cardProductChgResp": [
    {
      "regld": "201908271919300000",
```



```
"respCode": "01",
    "respMsg": "Crdproduct [MYMD] not found",
    "actionCode":"E"

},
{
    "reqId": "201908271919300001",
    "respCode": "01",
    "respMsg": "Crdproduct [MYMD] not found",
    "actionCode":"E"

}
]
```

12. Customer details enquiry

Customer Enquiry service used for getting information about customer. Clearn PAN or CVV2 will get in response only when customer details fetch using VPAN/PAN.

Request Format:

S. No	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	M	AN	Institute Code	
2	pFlag	1	M	A	S	If 'S', system will pocess synchronously else Deafult set 'S' [It always synchronous service]
3	reqld	18	М	N	Id of each request	
4	custCode	0 - 10	С	AN	Customer Code – it's unique identifier for each customer.	
5	accNo	1 - 28	С	AN	Account number.	
6	accCurr	3	С	AN	Account currency number. It's three digits.	
7	clearPan	19	С	AN	Clear Card Number.	
8	vpan	15 - 19	С	AN	Virtual Card Number / PAN ALIAS	

Cortex API specification - Prepaid seqNo 0 Ν Sequence Number С 10 idNumber 0 - 12 ΑN **Id Number** (like passport, Driving License, ..etc) С 11 mobNo 0 - 20 Mobile ANNumber С 12 eMail 0 - 64 ΑN e-Mail ideentifiation 13 firstName 0 - 50 С Customer ANFirst Name 14 0 - 50 С lastName ΑN Customer Last Name 15 reqMsgId 18 M String Request Message Id 16 startRecordNo 2 Start Record Μ Ν Number 17 endRecordNo 2 **End Record** M Ν Number 1 18 isClearPANRequired 0 If Y, clear PAN Α Y or N will present in

Note: Any of the Customer code, Account Number, Clear PAN, Virtual PAN, ID number, Mobile number, email id or "Firstname + Lastname of customer" is mandatory in the request. If none of the field is given, the request will be rejected.

0

0

Α

Α

Y or N

Y or N

1

1

Response Format:

19

20

isCVV2Reqired

isSHA256PANRequired

S.No.	Field	Description	DataType	Comments
1	instCode	Institution Code	AN	
2	customerEnquiryRes	Response Object	Object	Json Object
3	reqld	Request id of each request	AN	
4	processCode	Number	Process id of each request	
5	reqMsgld	String	Request Message Id	

response

If Y, CVV2 will present in response

If Y, clear PAN

hased with SHA256 in response



Elements of customerEnquiryRes Object for success response

S.No.	Field	Description	DataType	Comments
1	custDetailsResp	List of response	Array	Array of Object
2	reqld	Request Id	String	
3	respCode	Response Code	String	
4	respMsg	Response Message	String	

Array Elements of custDetailsResp Object Response

S.No.	Field	Description	DataType	Comments
1	accountDetailsResp	List of account Response	Array	It have list of account with cards
2	custCode	Customer Code	AN	
3	extCustCode	Ext Customer Code	AN	
4	typeld	Type Id of Customer	N	
5	title	Titles of customers	AN	Mr, Mrs, etc
6	lastName	Last name of the customer	AN	
7	firstName	First name of the customer	AN	
8	dateOfBirth	Customer date of birth	AN	Format – YYYYMMDD
9	married	Marital Status	AN	
10	gender	Gender	AN	
11	profileCode	Profile Code	N	
12	mobNo	Moblie Number	AN	
13	emailId	Customer Email	AN	
14	addressLine0	Address Line 0	AN	
15	addressLine1	Address Line 1	AN	
16	addressLine2	Address Line 2	AN	

Cortex API specification - Prepaid					
17	addressLine3	Address Line 3	AN		
18	homeCity	Home City	AN		
19	homeCountry	Home Country	AN	Home State/Province	
20	homePostCode	Home Postal Code	AN		
21	homeCountryCode	Home Country Code	N		
22	homeTel	Home Telephone Number	AN		
23	workAddRLine1	Work Address Line 1	AN		
24	workAddRLine2	Work Address Line 2	AN		
25	workAddRLine3	Work Address Line 3	AN		
26	workCity	Work City	AN		
27	workCountry	Work Country	AN	Work State/Province	
28	workPostCode	Work Postal Code	AN		
29	workCountyCode	Work Counrty Code	N		
30	workTel	Work Telephone Number	AN		
31	userData1		AN		
32	userData2		AN		
33	userData3		AN		
34	pobox		AN		
35	nationalId	National Identiy Number	AN		
36	idNumber	ld Number	AN		

Array Elements of accountDetailsResp object response:

S. No.	Field	Description	DataType	Comments
1	accNo	Account Number	AN	
2	currencyCode	Currency Code	AN	
3	accountType	Account Type	AN	
4	accountStatus	Account Status	AN	
5	avlBalance	Available Balance with decimal	AN	
6	blkAmount	Block Amount with decimal	AN	
7	otb	OpenToBuy (AVLBAL-BLKAMT)	AN	



8	branchCode	Branch Code	AN	
9	cardDetailsResp	List of cards details	Array	

Array Elements of cardDetailsResp Object response;

S. No.	Field	Description	DataType	Comments
1	cardProduct	Card Product	AN	
2	oldCardProduct	Old Card Product	AN	
3	clearPan	Clear Card Number value	AN	It's optional
		encrypted by Authman session		Clear Card Number value
		key.		encrypted by Authman
				session key
4	vpan	Vitural Pan	AN	
5	panDisplay	Pan Display	AN	
6	expDate	Expiry Date	N	It's optional
				Expiry Date value
				encrypted by Authman
				session key
7	oldExpDate	Old Expiry Date	N	
8	cardStatus	Card Status	N	
9	cardsTitle	Card Holder Title	AN	
10	cardLastName	Last Name of Card	AN	
11	cardFirstName	Fisrt Name of Card	AN	
12	embossName	Card Emboss Name	AN	
13	corpFlag	Corporate Flag Indicator	AN	0 or empty – Normal /
				General Customrt
				1 – Corporate Customer
				2 – Corporate Master
14	cvv2	Cvv2 value encrypted by	N	It's optional.
		Authman session key		
		,		Cvv2 value encrypted by
				Authman session key
15	cardStatusDesc	Card Status Desc	AN	Status Desctiption
16	cardProductDesc	Card Product Description	AN	·
17	oldCardProductDe	Old Card Product Description	AN	
	sc	·		

Array Elements of customerEnquiryRes Object for failure response:

Sno	Field	Description	DataType	Comments
1	reqld	Request id of each request	String	
2	respCode	Response Code	String	99
3	respMsg	Response message	String	No Data

URL: http<s>://<ip>:<port>/app/rest/v1.0/getcustomerdetails

Sample Request:

{



```
"instCode":"CLNT",
"reqMsgld": "201951968545010001",
"pFlag":"s",
"reqld":"201908271919300000",
"vpan": "PMVC000000000299",
"startRecordNo": "1"
"endRecordNo": "10"
}
Success Response:
  "processCode": 208,
  "instCode": "CLNT",
  "reqMsgld": "201951968545010001",
  "regld": "201908271919304171",
  "customerEnquiryRes": {
    "regld": "201908271919304171",
    "respCode": "00",
    "respMsg": "SUCCESS",
    "totalRecord": "20",
    "custDetailsResp": [
      {
        "custCode": "000000000007",
        "extCustCode": "000000100829",
        "typeld": "1",
        "title": " ",
        "lastName": "CLNT",
        "firstName": "CUSTOMER",
        "dateOfBirth": "20191130",
        "married": "M",
        "gender": "F",
        "profileCode": "0",
        "mobNo": "0000009187654312",
        "emailId": " ",
        "addressLine0": " ",
        "addressLine1": " "
        "addressLine2": " ",
        "addressLine3": " ",
        "homeCity": " ",
        "homeCountry": " ",
        "homePostCode": " ",
        "homeCountryCode": " ",
        "homeTel": " ",
        "workAddRLine1": " ",
        "workAddRLine2": " ",
        "workAddRLine3": "",
        "workCity": " ",
        "workCountry": " ",
        "workPostCode": " ",
        "workCountyCode": " ",
        "workTel": " ",
```



```
"userData1": "1111111111",
"userData2": "1111111111",
"userData3": " ",
"accountDetailsResp": [
  {
    "accNo": "0009008761109112",
    "currencyCode": "608",
    "accountType": "12",
    "accountStatus": "00",
    "avlBalance": "0",
    "blkAmount": "0",
    "otb": "0",
    "branchCode": "0001",
    "cardDetailsResp": [
      {
        "cardProduct": "MAMX",
        "oldCardProduct": "",
        "clearPan": " ",
        "vpan": "CLNT0000001094",
        "panDisplay": "375190_5531",
        "expDate": "20241130",
        "oldExpDate": "22630831",
        "cardStatus": "00",
        "cardsTitle": "",
        "cardLastName": "CUSTOMER",
        "cardFirstName": "CLNT",
        "embossName": "",
        "corpFlag": "0",
        "cvv2": " "
    1
  },
    "accNo": "0000009187654312",
    "currencyCode": "608",
    "accountType": "12",
    "accountStatus": "00",
    "avlBalance": "0",
    "blkAmount": "0",
    "otb": "0",
    "branchCode": "0001",
    "cardDetailsResp": [
        "cardProduct": "MAMX",
        "oldCardProduct": "",
        "clearPan": "",
        "vpan": "CLNT0000001086",
        "panDisplay": "375190 5523",
        "expDate": "20241130",
        "oldExpDate": "22630831",
```



```
"cardStatus": "00",
                 "cardsTitle": "",
                "cardLastName": "CUSTOMER",
                 "cardFirstName": "CLNT",
                 "embossName": "",
                 "corpFlag": "0",
                 "cvv2": " "
            ]
          }
        1
      }
    1
  }
Failure Response:
  "processCode": 208,
  "instCode": "CLNT",
  "reqMsgld": "201951968545010001",
  "reqld": "201908271919300000",
  "customerEnquiryRes": {
    "reqld": "201908271919300000",
    "respCode": "01",
    "respMsg": "NODATA"
  }
}
```

13. Virtual Card Creation

Virtual card creation API used to create virtual card in cortex.

Request Format:

Sno	Field	Max	Mandatory?	Data	Description	Comments
		Length		Туре		
1	instCode	4	М	AN	Institute	
					Code	
2	virtualCardReq	1-50	М	Array	List of	Array of
					requests	Object
3	pFlag	0-1	0	Α	S	If S, system
						will pocess
						synchronously
						else async
4	reqMsgld	18	М	String	Request	
					Message Id	
5	makerId	0-50	0	String	Maker User	
					Details	

Cortex API specification - Prepaid						
6	checkerId	0-50	0	String	Checker	7
					User	
					Details	
7	approverId	0-50	0	String	Approver	
			1		Dataila	

Array Elements of virtualCardReq Object:

S. No	Field	Max Lengt	Mandatory?	Data Type	Description	Comments
		h				
1	actionCode	1	М	А	Validation or Execution	V or E
2	branchCode	1-8	М	AN	Branch Code	
3	cardProduct	1-4	М	AN	Card Product	MAMX(for amex card)
4	custCode	0-10	М	AN	Customer Code	
5	custType	0-5	0	N	Customer Type	
6	title	0-4	0	ANS	Title of customer	
7	firstName	2-50	М	ANS	Customer's first name	
8	lastName	1-50	М	ANS	Customer's last name	
9	birthDate	0-8	0	Date	Birth date	
10	gender	1 - 1	M	Α	Gender	
11	marriedStatus	1 - 1	M	Α	Marital Status	
12	emailId	0-64	0	AN	Email Id	
13	profession	0-5	0	N	Profession	
14	homeAddr1	0-35	С	ANS	Home Address 1	Work address or Home address is mandatory
15	homeAddr2	0-35	С	ANS	Home Address 2	Work address or Home address is mandatory
16	homeAddr3	0-35	С	ANS	Home Address 3	Work address or Home address is mandatory
17	homeCity	0-40	С	ANS	Home City	
18	homeCounty	0-20	С	AN	Home State/Province	
19	homeCountry	0-3	С	N	Home Country Code	
20	homeTel	0-20	С	N	Home Telephone	
21	homePostalCode	0-10	С	AN	Home postal code	

Cortex	API specification - Pr	epaid				
22	роВох	0-8	0	AN	Ро Вох	
23	workAddr1	0-30	С	AN	Work address 1	Work address or Home address is mandatory
24	workAddr2	0-30	С	AN	Work address 2	Work address or Home address is mandatory
25	workAddr3	0-30	С	AN	Work address 3	Work address or Home address is mandatory
26	workCity	0-40	С	AN	Work city	
27	workCounty	0-20	С	AN	Work State/Province	
28	workCountry	0-3	С	N	Work Country Code	
29	workTel	0-20	С	N	Work telephone	
30	workPostalCode	0-10	С	AN	Work postal code	
31	identificationNumber	0-12	0	AN	Id number	
32	nationalId	0-22	0	AN	National Identity	
33	mobileNumber	0-20	0	N	Mobile number	
34	fax	0-20	0	AN	Fax	
35	countryName	0-25	0	AN	Country Name	
36	nationality	0-50	0	AN	Nationality	
37	suitNumber	0-8	0	AN	Suit Number	
38	accountType	0 - 2	0	AN	Account Type	
39	accountNo	0 - 28	0	AN	Account Number	
40	accountStatus	0-2	0	N	Account status	
41	reqld	1-8	М	N	Id of each request	
42	pan	17-19	0	AN	Pan or clear pan	Card number
43	isClearPANRequired	1	0	A	Y or N	If Y, clear PAN will present in response
44	isCVV2Reqired	1	0	A	Y or N	If Y, CVV2 will present in response
45	isSHA256PANRequired	1	0	А	Y or N	If Y, clear PAN hased with SHA256 in

Note: Work address details or Home address details any one should mandatory

response



Response Format:

S.No.	Field	Description	Comments
1	instCode	Institution Code	
2	virtualCardRes	JSON Object	JSON Object
3	processCode	Number	Process id of each request
4	reqMsgId	String	Request Message Id
5	respCode	String	Response Code
6	respMsg	String	Response message

Elements of virtualCardRes Object for response

S.No.	Field	Description	DataType	Comments
1	virtualCardResp	List of response	Array	Array of Object

Array Elements of virtualCardResp Object for success response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	
4	clrPan	String	Clear pan encrypted	It will be
			by Authman session	generated only for
			key.	execution request
				not for validation.
				Clear pan
				encrypted by
				Authman session
				key.
5	vpan	String	Vpan	It will be
				generated only for
				execution request
				not for validation.
6	panDispaly	String	Pan Display	It will be
				generated only for
				execution request
				not for validation.
7	encryptedPan	String	Ecncryted Pan	It will be
				generated only for

				execution request
				not for validation.
8	cvv2	String	Cvv2 value	Cvv2 value
			encrypted by	encrypted by
			Authman session	Authman session
			key	key
9	expDate	String	Expiry Date	It will be
				generated only for
			Encrypted by	execution request
			Authman session	not for validation.
			key.	
				Expiry Date
				encrypted by
				Authman session
				key.
10	actionCode	String	Action code	
11	branchCode	String	Branch Code	
12	cardProduct	String	Card Product	
13	firstName	String	First Name	
14	lastName	String	Last Name	
15	gender	String	Gender	
16	marriedStatus	String	Marital Status	
17	accountType	String	Account Type	
18	accountNo	String	Account Number	

Array Elements of virtualCardResp Object for failure response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each	
			request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	Only when error
				response received
4	actionCode	String	Validation or Execution	V or E

URL: http<s>://<ip>:<port>/app/rest/v1.0/virtualcardcreation

Validation Request:

```
"instCode": "FNMG",
"reqMsgld": "202051968545010004",
"pFlag": "E",
"virtualCardReq": [{
    "reqId": "202008271919300003",
    "custCode":"custt0003447",
    "homeAddr1":"As3",
    "homeAddr2":"Akilandeshwari aptmt",
    "homeAddr3":"cart track road velachery",
    "homeCity":"chennai",
```



```
"homeCounty":"Tamilnadu",
    "homeCountry":"IND",
    "homeTel":"0444232456",
    "homePostalCode":"636105",
    "actionCode": "V",
    "branchCode": "0027",
    "cardProduct": "0123",
    "firstName": "Fincarecustomerone",
    "lastName": "Fincareone",
    "gender": "F",
    "marriedStatus": "S",
    "accountType": "10",
    "accountNo": "000000012020520",
    "pan":"6087231299231131"
 }]
}
Execution Response:
{
  "respCode": "901",
  "respMsg": "Request Processed.",
  "processCode": 215,
  "instCode": "FNMG",
  "reqMsgId": "202051968545010004",
  "reqld": "202008271919300003",
  "virtualCardRes": {
    "virtualCardResp": [
        "regld": "202008271919300003",
        "respCode": "00",
        "vpan": "FNMG00000001005",
        "panDispaly": "608723 1131",
        "expDate": "2025-03-31",
        "cvv2": "234",
        "actionCode": "000",
        "cardProduct": "0123",
        "firstName": "Fincarecustomerone",
        "lastName": "Fincareone",
        "accountType": "10",
        "accountNo": "000000012020520"
    1
 }
Failure Response:
"respCode": "904",
"respMsg": "Missing the CustCode in Customer Details: CustCode",
"processCode": 215,
```



```
"instCode": "FNMG",
"reqMsgld": "202051968545010005",
"reqId": "202008271919300004"
}
```

14. Virtual to physical card creation

Virtual to physical card creation API used to convert virtual card to physical card creation. User will get physical card for him / her virtual card.

Request Format:

Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	М	AN	Institute Code	
2	virtual2PhysicalReq	1-50	М	Array	List of requests	Array of Object
3	pFlag	0-1	0	A	S	If S, system will pocess synchronously else async
4	reqMsgld	18	М	String	Request Message Id	
5	makerId	0-50	0	String	Maker User Details	
6	checkerId	0-50	0	String	Checker User Details	
7	approverId	0-50	0	String	Approver Details	

Array Elements of virtual2PhysicalReq Object:

S. No	Field	Max	Mandatory?	Data Type	Description	Comments
		Length				
1	actionCode	1	M	Α	Validation	V or E
					or	
					Execution	
2	custCode	0-10	0	AN	Customer	
					Code	
3	photoId	1-4	0	AN	Photo ID	
4	aadharNo	0 -2	0	N	Aadhar card	
					Number	
5	pan	17-19	M	AN	Pan or clear	
					pan	
6	reqld	18	M	N	Id of each	
					request	
7	persoBureaoCode	1-8	M	AN	Perso	
					Bureao	
					Code	

8	cardProduct	1-4	М	AN	Card
					Product
9	orderId	1-20	0	AN	Order Id
10	awbNo	1-20	0	AN	Air Waybill
					Number
11	qrCode	1-20	0	AN	QR Code
12	courierVendor	1-20	0	AN	Courier
					Vendor

Response Format:

S.No.	Field	Data Type	Description	Comments
1	instCode	String	Institution Code	
2	virtual2PhysicalRes	JSON Object	JSON Object	
3	processCode	Number Process id of each request		
4	reqMsgld	String Request Message Id		
5	respCode	String	Response Code	
6	respMsg	String	Response message	

Elements of virtual2PhysicalRes Object for response

S.No.	Field	Description	DataType	Comments
1	virtual2PhysicalResp	List of response	Array	Array of Object

Array Elements of virtual2PhysicalResp Response Object for success response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each	
			request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	
4	actionCode	String	Validation or	
			Execution	
5	pan	String	Clear or Encrypted Pan	Pan / Clear Pan value encrypted by Authman session key.
			Pan / Clear Pan	
			value encrypted by	
			Authman session	
			key.	
6	custCode	String	Customer Code	



Array Elements of virtual2PhysicalResp Response Object for failure response:

Sno	Field Description		DataType	Comments
1	reqld	Request id of each request	String	
2	respCode	Response Code	String	
3	respMsg	respMsg Response message		
4	actionCode	Validation or Execution	String	V or E

URL: http<s>://<ip>:<port>/app/rest/v1.0/virtual2physical

```
Execution Request:
"instCode": "FNMG",
"reqMsgId": "202051968545010011",
"virtual2PhysicalReq": [{
"regId": "202008271919300011",
"actionCode": "V",
"pan": "6087231299231142",
"persoBureaoCode": "FCT",
"cardProduct": "PDC1"
}]
}
Exceution Response:
  "respCode": "901",
  "respMsg": "Request Processed.",
  "processCode": 216,
  "instCode": "FNMG",
  "reqMsgId": "202051968545010011",
  "reqld": "202008271919300011",
  "virtual2PhysicalRes": {
    "virtual2PhysicalResp": [
        "regld": "202008271919300011",
        "respCode": "00",
        "actionCode": "000",
        "pan": "6087231299231142",
        "custCode": "custt0003449"
      }
    1
  }
}
```

15. Adjust Account Balance

Adjust account balance API used to account debit and account credit for all purchase or fun transfer.



Request Format:

Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	М	AN	Institute Code	
2	adjAccountBlanceReq	1-50	М	Array	List of requests	Array of Object
3	pFlag	0-1	0	A	S	If S, system will pocess synchronously else async
4	reqMsgld	18	М	String	Request Message Id	·
5	makerId	0-50	0	String	Maker User Details	
6	checkerId	0-50	0	String	Checker User Details	
7	approverId	0-50	0	String	Approver Details	

Array Elements of adjAccountBlanceReq Object:

S.	Field	Max	Mandatory?	Data	Description	Comments
No		Length		Type		
1	actionCode	1	M	Α	Validation or	V or E
					Execution	
2	reqld	18	M	N	Id of each	
					request	
3	pan	17-19	С	AN	Pan number	
4	vpan	15 - 19	С	AN	VPAN	
5	accNo	1 - 28	С	AN	Account	
					number.	
6	accCurr	3	С	AN	Account	
					currency	
					number. It's	
					three digits.	
7	hostName	1-4	M	AN	Host Name	
8	fiid	1-11	М	AN		Forwarding Institution
	:-D-t-D	10.10	D.4	N.		ID
9	inDateRec	10-10	M	N		
10	trn	1-64	M	AN		
11	hostCmd	1-10	M	N		Command to adjust
						balance, default – 1000
12	amtBill	1-6	M	N	Amount of bill	
13	Narrative	1-128	M	AN		
14	User	1-15	M	AN		
15	hostTimeStamp	1-17	M	AN	Datetimeformat with	yyyyMMddHHmmssSSS Sample:
					miliseconds	20201204203332000

Response Format:

S.No.	Field	Data Type	Description	Comments
1	instCode	String	Institution Code	
2	adjAccountBlanceRes	JSON Object	JSON Object	
3	processCode	Number	Process id of each request	
4	reqMsgld	String	Request Message Id	
5	respCode	String	Response Code	
6	respMsg	String	Response message	

Elements of adjAccountBlanceRes Object for response

S.No.	Field	Description	DataType	Comments
1	adjAccountBlanceResp	List of response	Array	Array of Object

Array Elements of adjAccountBlanceResp Response Object for success response:

Sno	Field	Data Type	Description	Comments
1	reqld String		Request id of each	
			request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	
4	actionCode	String	Validation or	
			Execution	
5	accNo	String	Account Number	
6	accCurr	String	Account Currency	
7	FIID	Stirng		
8	TRN	String		
9	avlBal	String	Available Amount	
10	blkAmt	String	Block Amount	

Array Elements of adjAccountBlanceResp Response Object for failure response:

Sno	Field	ld Description		Comments
1	reqld	Request id of each request	String	
2	respCode	Response Code	String	
3	respMsg	Response message	String	
4	actionCode	Validation or Execution	String	V or E

URL: http<s>://<ip>:<port>/app/rest/v1.0/adjaccountbalance



```
"actionCode":"E",
                 "pan":"6161610008671396",
                 "accNo":"100000874001",
                 "accCurr":"356",
                 "hostName":"IST",
                 "hostCmd":"1000",
                 "inDateRec": "20201214",
                 "fiid": "212123237",
                 "narrative": "Deducting FEE",
                 "trn": "DD08201918085457",
                 "hostTimeStamp":"20201214203322000",
                 "amtBill":"10",
                 "user":"WEB"
                }]
Validation Response:
  "respCode": "901",
 "respMsg": "Request Processed.",
 "processCode": 220,
 "instCode": "IEBT",
 "reqMsgId": "202011191341301254",
 "reqId": "202011191341301254",
  "adjAccountBlanceRes": {
    "adjAccountBlanceResp": [
        "reqId": "202011191341301254",
        "respCode": "00",
        "respMsg": "Balance Adjustment successful",
        "actionCode": "3",
        "accNo": "100000874001",
        "accCurr": "356",
        "avlBal": "56041.00000000000",
        "blkAmt": "0.000000",
        "fiid": "212123237"
 }
Execution Request:
        {
                 "instCode": "IEBT",
                 "pFlag":"s",
                 "reqMsgId": "202011191341301254",
                 "adjAccountBlanceReq":[
                 "regId": "202011191341301254",
                 "actionCode":"E",
                 "pan":"6161610008671396",
                 "accNo":"100000874001",
                 "accCurr": "356",
                 "hostName":"IST",
                 "hostCmd":"1000",
                 "inDateRec": "20201214",
                 "fiid":"212123237",
                 "narrative": "Deducting FEE",
                 "trn": "DD08201918085457",
                 "hostTimeStamp":"20201214203322000",
                 "amtBill":"10",
                 "user":"WEB"
                }]
        }
```



```
Execution Response:
"respCode": "901",
"respMsg": "Request Processed.",
"processCode": 220,
"instCode": "IEBT",
"reqMsgId": "202011191341301254",
"regld": "202011191341301254",
"adjAccountBlanceRes": {
"adjAccountBlanceResp": [
"reqld": "202011191341301254",
"respCode": "00",
"respMsg": "Balance Adjustment successful",
"actionCode": "3",
"accNo": "100000874001",
"accCurr": "356",
"avlBal": "56041.00000000000",
"blkAmt": "0.000000",
"fiid": "212123237"
]
}
```

16. Account Load

Account load API used to load amount in to user account. Based on account number and card details.

Request Format:

}

Sno	Field	Max	Mandatory?	Data	Description	Comments
ss1	instCode	Length 4	M	AN	Institute Code	
2	accountLoadReq	1-50	М	Array	List of requests	Array of Object
3	pFlag	0-1	0	A	S	If S, system will pocess synchronously else async
4	reqMsgld	18	М	String	Request Message Id	
5	makerId	0-50	0	String	Maker User Details	
6	checkerId	0-50	0	String	Checker User Details	
7	approverId	0-50	0	String	Approver Details	

Array Elements of accountLoadReq Object:



S. No	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	actionCode	1	М	A	Validation	V or E
					or	
	un mi d	10	D.4	NI	Execution	
2	reqld	18	M	N	Id of each	
3	accNo	1 - 28	С	AN	request Account	
3	accino	1-20		AN	number.	
4	accCurr	3	С	AN	Account	
					currency	
					number.	
					It's three	
					digits.	
5	loadType	1-99	М	AN	Load Type	
6	loadSrc	1-99	M	AN	Load Source	CRDLOADSRC_UNKNOWN 0
7	amtBill	1-6	М	N	Aount of bill	, ,
8	extCode	1-16	M	N	Extention	External Code –
	CALCOUR	1-10	141	14	code	Unique reference
						number for each
						transaction.
						16 digits maximum
9	agentId	1-12	М	AN	Agent Id	Card Acceptor ID
10	pan	17-19	С	AN	Pan	
					number	
11	vpan	15 - 19	С	AN	VPAN	
12	action	1-3	М	N	Action codes	Action code 1, 2, 3, 4, 101 1 - Load Request 2 - Advice 3 - Cancel 4 - Verify
13	expDate	4	СО	AN	Card's	YYMM
					expiry date	

Response Format:

	-	
_		

S.No.	Field	Data Type	Description	Comments
1	instCode	String	Institution Code	
2	accountLoadRes	JSON Object	SON Object JSON Object	
3	processCode	Number	Process id of each request	
	_		_	
4	reqMsgId	String	Request Message Id	
5	respCode	String	Response Code	
6	respMsg	String	Response message	

Elements of accountLoadRes Object for response

S.No.	Field	Description	DataType	Comments
1	accountLoadResp	List of response	Array	Array of Object

Array Elements of accountLoadResp Response Object for success response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	
4	actionCode	String	Validation or Execution	
5	action	String	Action	
6	accNo	String	Account Number	
7	extCode	String		
8	accCurr	String	Account Currency	
9	amtBill	String	Amount Bill	
10	avlBal	String	Available amount	
11	blkAmt	String	Block Amount	
12	preAuthBlk	String		
13	preAuthUnclr	String	Pre auth unclear amount	
14	firstName	String	First Name	
15	lastName	String	Last Name	
16	title	String	Title	

Array Elements of accountLoadResp Response Object for failure response:

	Tay Elements of accounting the points object for familie response.							
Sno	Field	Description	DataType	Comments				
1	reqld	Request id of each request	String					
2	respCode	Response Code	String					
3	respMsg	Response message	String					
4	actionCode	Validation or Execution	String	V or E				

URL: http<s>://<ip>:<port>/app/rest/v1.0/accountload

Validation Request:



```
{
   "instCode": "FIS",
   "reqMsgld": "201951968545010001",
   "accountLoadReq":[{
       "reqld": "201908271919300000",
       "actionCode":"V",
       "accNo":"",
"accCurr":"",
"loadType":"",
"loadSrc":"",
"amtBill":"",
"extCode":"",
"agentId":"",
"pan":"",
"vpan":"",
"action":""
    }]
}
Validation Response:
    "respCode": "901",
    "respMsg": "Request Processed.",
    "processCode": 218,
  "instCode": "FIS",
   "reqMsgld": "201951968545010001",
  "accountLoadRes": {
   "accountLoadResp": [
    {
      "reqld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Given card is allowed to card upgrade.",
      "actionCode": "V",
"action":"",
"accNo":"",
"extCode":""
"accCurr":"",
"amtBill":"",
"avlBal":"",
"blkAmt":"",
"preAuthBlk":"",
"preAuthUnclr":"",
"firstName":"",
"lastName":"",
"title":""
    },
      "reqld": "201908271919300001",
      "respCode": "01",
      "respMsg": "Already Processed -"
```



```
]
Execution Request:
   "instCode": "FIS",
  "reqMsgld": "201951968545010001",
   "accountLoadReq":[{
      "regld": "201908271919300000",
      "actionCode":"E",
      "action":"",
"accNo":"",
"extCode":""
"accCurr":"",
"amtBill":"",
"avlBal":"",
"blkAmt":"",
"preAuthBlk":"",
"preAuthUnclr":"",
"firstName":"",
"lastName":"",
"title":""
    }]
}
Execution Response:
{
    "respCode": "901",
    "respMsg": "Request Processed.",
    "processCode": 218,
  "instCode": "FIS",
  "reqMsgId": "201951968545010001",
  "accountLoadRes": {
  "accountLoadResp": [
      "regld": "201908271919300000",
      "respCode": "00",
      "respMsg": "Request Processed",
      "actionCode": "E",
"action":"",
"accNo":"",
"extCode":"",
"accCurr":"",
"amtBill":"",
"avlBal":"",
"blkAmt":"",
"preAuthBlk":"",
"preAuthUnclr":"",
"firstName":"",
"lastName":"",
"title":""
    }
```



```
]
}
Failure Response:
{
   "respCode": "901",
   "respMsg": "Request Processed.",
    "processCode": 218,
  "instCode": "FIS",
  "reqMsgld": "201951968545010001",
  "accountLoadRes": {
  "accountLoadResp": [
    {
      "regld": "201908271919300000",
      "respCode": "01",
      "respMsg": "Request not Processed - error",
 }]}}
```

17. Set PIN

SetPIN API is to be used to set new PIN for a card. PIN should be sent as ZPK encrypted PIN block.

Request Format:

S. No	Field	Min-Max	Mandatory?	Data	Description	Comments
		Length		Туре		
1	instCode	4	М	AN	Institution	Example FIS
					Code	
2	reqld	18	M		Id of each	
				N	request,	
					uniquely	
					identified	
3	pan	16-19	С	Character	Clear card	
					number (or	
					number	
					used for PIN	
					block	
					formation)	
4	vpan	0-32	С	Character	Virtual PAN	
					(or) PAN	
					Alias	
5	seqNo	1	М	Number	PAN	Card Sequence
					sequence	Number –
					no	Default – 0
						"seqNo": "0",
6	keyRef	16	М	Character	ZPK	Example FISZPK
					Reference	
					Code	Key Reference –
						Default - LOCAL



7	encryptedPin	16	М	String	Encrypted	3
					PIN	
8	pinBlockFormat	1	М	Number	Pin Block	01 – ANSI
					format	format
						03 – PIN pad or
						Diebold format

Response Format:

Sno	Field	Description	DataType	Comments
1	instCode	Institution Code	String	
2	reqld	Request id of each	String	
		request		
3	respCode	Response Code	String	
4	respMsg	Response message	String	
5	vpan	Vpan	String	Based on req
				it will pe pan
				or vpan
6	seqNo	PAN sequence no	String	
7	keyRef	PAN	String	
8	encryptedPin	ZPK Reference Code	String	
9	pinBlockFormat	Pin Block format	String	

Failure response:

Sno	Field	Description	DataType	Comments
1	reqld	Request id of each request	String	
2	respCode	Response Code	String	
3	respMsg	Response message	String	
4	instCode	Institution Code	String	

Note: Either PAN or VPAN should be given as input.



```
"vpan ": "PMMG00000000012 ",

"seqNo ": "0",

"keyRef ": "PORTAL",

"encryptedPin ": "E807FBE63941CEF6",

"pinBlockFormat ": "1"

}

Failure Response:
{

"instCode": "FIS",

"reqId": "201908271719300000",

"respCode": "01",

"respMsg": "PAN – VPAN mismatch in request"
}
```

18. Change PIN

Change PIN is used to change PIN for a card. Both current PIN and new PIN should be sent as ZPK encrypted PIN block.

Request Format:

S. No	Field	Min-Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	М	AN	Institution Code	
2	reqld	18	М	N	Id of each request	
3	oldPinBlock	16	М	AN	Old PIN (current PIN) block	
4	newPinBlock	16	М	AN	New pin block	
5	expDate	4	М	AN	Card's expiry date	YYMM
6	localDate	0-8	0	AN	Current Date	YYYYMMDD
7	keyReferenceCode	1-16	M	AN	Key Reference Code	Example FISZPK
8	pinBlockFormat	1-2	M	AN	Pin Block Format	01 – ANSI format 03 – PIN pad or Diebold format
9	pan	16-19	М	AN	Clear Card Number	
10	afe	4	М	AN	Financial Entity	
11	termSeq	4	M	N	Term Seq number	It should be unique for each request. Transaction
						Sequence Number from Terminal



Response Format:

Sno	Field	Description	DataType	Comments
1	instCode	Institution Code	String	
2	reqld	Request id of each request	String	
3	respCode	Response Code	String	Succes - 000

Failure response:

Sno	Field	Description	DataType	Comments
1	reqld	Request id of each	String	
		request		
2	respCode	Response Code	String	
3	respMsg	Response message	String	
4	instCode	Institution Code	String	

```
URL: http<s>://<ip>:<port>/app/rest/v1.0/changepin
Change Pin Request:
"instCode": "FIS",
"afe":"FIS",
"termSeg":"5315",
"oldPinBlock": "9A4FBC381298D0CE",
"newPinBlock": "FD5E3EFDC38FAA33",
"expDate":"2404",
"localDate": "20191019",
"keyReferenceCode":"LOCAL",
"pinBlockFormat":"1",
"pan": "D26E0C17293AC8D56EE",
"regld": "201912011919310023"
Change Pin Response:
  "instCode": "FIS",
  "reqld": "201912161534069147",
  "respCode": "000"
}
Failure Response:
  "instCode": "FIS",
  "regld": "201912011919310023",
  "respCode": "13",
  "respMsg": "Could not get Transaction from TLOG!"
}
```

19. Verify PIN

PIN can be verified using this API for a card.



Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	М	AN	Institute Code	
2	verifyPinReq	1-50	М	Array	List of requests	Array of Object
3	pFlag	0-1	0	А	S	If S, system will pocess synchronously else async
4	reqMsgld	18	М	String	Request Message Id	
5	makerId	0-50	0	String	Maker User Details	
6	checkerId	0-50	0	String	Checker User Details	
7	approverId	0-50	0	String	Approver Details	

Array Elements of verifyPinReq Object:

S.	Field	Max	Mandatory	Data Type	Description	Comments
No		Length	?			
1	reqId	18	М		Id of each	
				N	request	
2	actionCode	1	М	Α	Validation or	
					Execution	
3	vpan	15 - 19	СО	AN	Unique identifier	
					of card	
4	pan	17-19	СО	N	Pan Number	
5	encPin	30-40	М	AN	Encrypted Pin	
6	crdPinTyp	0-1	0	N	Card Pin Type	Allow 0 to 9
						only
						0 – is
						default
7	whoSet	0-30	0	AN		

Response Format:

S.No.	Field	Description	DataType	Comments
1	instCode	Institution Code	String	
2	verifyPinRes	JSON Object	JSON Object	
3	processCode	Number	Process id of each request	
4	reqMsgld	String	Request Message Id	



5	respCode	String	Response Code	55
6	respMsg	String	Response message	

Elements of verifyPinRes Object for response

S.No.	Field	Description	DataType	Comments
1	verifyPinResp	List of response	Array	Array of Object

Array Elements of verifyPinResp Object for success response:

S.No	Field	Description	DataType	Comments
1	reqld	Request id of each request	String	
2	respCode	Response Code	String	Action Code V – Response Code 00 Action Code E – Response Code 00
3	respMsg	Response message	String	
4	actionCode	Validation or Execution	String	V or E
5	custCode	Customer Code	String	

Array Elements of verifyPinResp Object for failure response:

Sno	Field	Description	DataType	Comments
1	reqld Request id of each request		String	
2	respCode	Response Code	String	
3	respMsg	Response message	String	
4	actionCode	Validation or Execution	String	V or E

URL: http<s>://<ip>:<port>/app/rest/v1.0/verifypin

Execution Request:



Execution Response:

```
{
    "respCode": "901",
    "respMsg": "Request Processed.",
    "processCode": 205,
    "instCode": "FNCR",
    "reqMsgId": "201951968545010001",
    "verifyPinResp": {
    "verifyPinResp": [
      "reqld": "201908271919300000",
      "respCode": "00",
      "respMsg": " Pin Verified successfully.",
      "actionCode": "E",
      "custCode": "Cust00002"
    }]
   }
}
```

20. Transaction details Enquiry

Transaction enquiry used to get all transaction details of the account. We ca search / enquired based on below rules.

- 1. clearPan + startDate + endDate
- 2. vpan + startDate + endDate
- 3. accNo + startDate + endDate
- 4. rrNo

Request Format:

Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	М	AN	Institute Code	
2	pFlag	1	М	Α	S	If 'S', system will pocess synchronously else Deafult set 'S' [It always synchronous service]
3	reqld	18	М	N	Id of each request	
4	vpan	15 - 19	С	AN	Virtual Pan / Pan Alias	
5	clearPan	19	С	AN	Clear Card Number	
6	accNo	0 - 28	С	AN	Account Number	
7	rrNo	12	С	AN	Retrieval Reference Number	



8	startDate	8	С	AN	Start Date of	Format is like
					Transaction	YYYYMMDD
					Date	
9	endDate	8	С	AN	End Date of	Format is like
					Transaction	YYYYMMDD
					Date	
10	reqMsgId	18	M	String	Request	
					Message Id	
11	startRecordNo	2	M	N	Start Record	
					Number	
12	endRecordNo	2	М	N	End Record	
					Number	

Response Format:

S.No.	Field	Description	DataType	Comments
1	instCode	Institution Code	String	
2	transactionDetailsRes	List of response	Array	Array of Object
3	processCode	Process id of each request	Number	
4	reqld	Request id of each request	AN	
5	reqMsgld	Request Message Id	String	

Elements of transactionDetailsRes Object for success response

S.No.	Field	Description	DataType	Comments
1	respCode	Response Code	String	
2 respMsg		Response Message	String	
3	transactionDetailsResp	List of response	Array	Array of
				Object
4	totalRecord	Overa all total No. of	String	
		record		

Array Elements of transactionDetailsResp Object for success response:

SNo	Field	Description	DataType	Comments
1	tlogId	Transaction Id	N	
2	ctxDate	Cortex Business Date	N	Format should like YYYYMMDD
3	dateLocal	Transaction Local Date	N	Format should like YYYYMMDD
4	timeLocal	Transaction Local Time	N	
5	orgTxnDate	Original Transaction Date	N	Format should like YYYYMMDD
6	orgTxnTime	Orignal Transaction Time	N	
7	txnAmount	Transaction Amount	N	Transaction Amount with Decimals
8	billAmount	Billing Amount	N	Bill Amount with Decimals



	R API Specification	Trepara		
9	billCommission	Bill Commission Amount	N	Bill Commission Amount
				with Decimals [Issuer
				Commission]
10	txnFee	Transaction Fee	N	
11	txnCommission	Transaction Commission	AN	
12	txnRefNo	Transaction Referance	AN	
	- 60	Number		
13	acqRefNo	Acquirer Referance Number	AN	
14	rrNo	Retrieval Referance Number	AN	
15	aiid	Acqurier Id	AN	
16	crdAccptId	Card Acceptor ID	AN	
17	crdAccptName	Card Acceptor Name	AN	
18	crdAccptStreet	Card Acceptor Street	AN	
19	crdAccptCity	Card Acceptor City	AN	
20	crdAccptPostCode	Card Acceptor Postal Code	AN	
21	crdAccptRegion	Card Acceptor Region	AN	
22	crdAccptCountry	Card Acceptor Country	AN	F. A. A. L. C. L.
23	terminalType	Terminl Type	AN	Ex: Action Code – Terminal Descr
24	terminalSeq	Terminal Sequence	N	Transaction Sequence
				Number from Terminal
25	transActionCode	Trasnaction Action Code	AN	Ex: Action Code – Action
				Code Descr
26	transResCode	Trasnaction Response Code	AN	
27	trasnRejReason	Transaction Reject Reason	N	
28	transVerifyRsIt	Transaction Verification Result	AN	
29	transCode	Trasnaction Code	N	Ex: Transaction Code – Description
30	transDesc	Transaction Description	AN	
31	transStatus	Transaction Status	AN	Transaction Status Ex: Code – Transation status This status is different from the transaction status. Using this, we can identify whether the transaction is settled or reversed. Etc
32	pan	Encrypted Pan	AN	
33	panDisplay	Pan Display	AN	
34	poscdim	POSCDIM	AN	Card Data Input Method, Point of Sale Value - Description
35	fiid	Forwarding Institution ID	AN	
36	fiidcountry	Forwarding Institution	AN	
		Country		
37	billingCurr	Billing Currency	AN	
38	stan	STAN	N	
39	crdAccptLocation	Card Acceptor Location	AN	
40	terminalCode	Terminal Code	AN	
41	approvalCode	Approval Code	N	
42	accitemsid	Account Items Id	N	
43	feeid	Fee Id	N	



44	revFlag	Reversal Flag	AN	
45	description	Transaction Description	AN	
46	extCode	Ext. Code	AN	
47	txnType	Transaction Type	N	
48	txnSubType	Transaction Sub Type	N	
49	loadType	Load Type	N	
50	loadSource	Load Source	N	
	blockAmount	Blocked Amount with	N	
51		decimals		
52	availBalance	Available Balance	N	
53	accNo	Account Number	AN	
54	transactionCurrency	Transaction Currency	AN	
		Original STAN	AN	Original STAN (System Trace Audit Number)
				Present during Reversal
55	originalSTAN			Transactions
	originaltransAmoun	Original Transaction Amount	AN	
56	t			
57	settlementDate	Settlement Date	AN	
58	settlementAmount	Settlement Amount	AN	
59	transmitDate	Transmit Date	AN	
60	transmitTime	Transmit Time	AN	
		Clear Pan	AN	Pan / Clear Pan value
				encrypted by Authman
61	clearPan			session key

Array Elements of transactionDetailsRes Object for failure response:

SNo	Field	Description	DataType	Comments
1	respCode	Response Code	String	
2	respMsg	Response message	String	

URL: http<s>://<ip>:<port>/app/rest/v1.0/gettransactiondetails

```
Sample Request:
"instCode":"IEBT",
"reqMsgId": "202012101049010002",
"pFlag":"s",
"reqId":"202012101049010002",
"accNo":"100000874001",
"startRecordNo":"1",
"endRecordNo":"10",
"startDate":"20201201",
"endDate":"20201210"
}
Success Response:
  "respCode": "901",
  "respMsg": "Request Processed.",
 "processCode": 211,
"instCode": "IEBT",
"reqMsgId": "202012101049010002",
  "reqId": "202012101049010002",
```



```
"transactionDetailsRes": {
 "respCode": "00",
 "respMsg": "SUCCESS",
 "totalRecord": "2",
 "transactionDetailsResp": [
      "tlogId": "6494",
      "ctxDate": "20201203",
      "dateLocal": "20201210",
      "timeLocal": "1934216",
      "orgTxnDate": "22630831",
      "orgTxnTime": "0",
      "txnAmount": "10000",
      "billAmount": "10000",
      "billCommission": "0",
      "txnFee": "0",
      "txnCommission": "0",
      "txnRefNo": " ",
      "acqRefNo": "438",
      "rrNo": "034514029034",
      "crdAccptId": "AGNT000000006",
      "crdAccptName": " "
      "crdAccptStreet": " ",
      "crdAccptCity": " ",
      "crdAccptPostCode": " ",
      "crdAccptRegion": " ",
      "crdAccptCountry": " "
      "terminalType": "",
      "terminalSeq": "0",
      "transActionCode": "",
      "transResCode": ""
      "trasnRejReason": ""
      "transVerifyRslt": " ",
      "transCode": "201 - ACCOUNT LOAD",
      "transDesc": "ACCOUNT LOAD",
      "transStatus": "7 - Transaction complete,approved",
      "pan": "D6638C9AD13D3AD9B97",
      "panDisplay": "616161_1396",
      "poscdim": " - ",
      "billingCurr": "356",
      "crdAccptLocation": " ",
      "terminalCode": " "
      "approvalCode": " ".
      "accItemsId": "0",
      "revFlag": " ",
      "description": " ",
      "extCode": " "
      "txnTvpe": "-1",
      "txnSubType": "-1",
      "loadType": "-1",
      "loadSource": "-1",
      "blockAmount": "0",
      "availBalance": "0",
      "accNo": "100000874001",
      "transactionCurrency": "356",
      "originalSTAN": "0",
      "originaltransAmount": "0",
      "settlementDate": "22630831",
      "settlementAmount": "0",
      "transmitDate": "20201210",
      "transmitTime": "140427",
      "clearPan": " ",
      "aiid": " ",
```



```
"fiid": " ",
  "fiidcountry": " ",
  "stan": "29034",
  "feeid": "0"
},
{
  "tlogId": "6493",
  "ctxDate": "20201203",
  "dateLocal": "20201210",
  "timeLocal": "1931533",
  "orgTxnDate": "22630831",
  "orgTxnTime": "0",
  "txnAmount": "101",
  "billAmount": "101",
  "billCommission": "0",
  "txnFee": "0",
  "txnCommission": "0",
  "txnRefNo": " ",
  "acqRefNo": "438",
  "rrNo": "034514030034",
  "crdAccptId": "AGNT000000005",
  "crdAccptName": " "
  "crdAccptStreet": " ",
  "crdAccptCity": " ",
  "crdAccptPostCode": " ",
  "crdAccptRegion": " ",
  "crdAccptCountry": " ".
  "terminalType": "",
  "terminalSeq": "0",
  "transActionCode": "",
  "transResCode": ""
  "trasnRejReason": "",
  "transVerifyRslt": " ",
  "transCode": "201 - ACCOUNT LOAD",
  "transDesc": "ACCOUNT LOAD",
  "transStatus": "7 - Transaction complete,approved",
  "pan": "D6638C9AD13D3AD9B97",
  "panDisplay": "616161_1396",
  "poscdim": " - ",
  "billingCurr": "356",
  "crdAccptLocation": " ",
  "terminalCode": " "
  "approvalCode": " ".
  "accItemsId": "0",
  "revFlag": " ",
  "description": " ",
  "extCode": " "
  "txnTvpe": "-1",
  "txnSubType": "-1",
  "loadType": "-1",
  "loadSource": "-1",
  "blockAmount": "0",
  "availBalance": "0",
  "accNo": "100000874001",
  "transactionCurrency": "356",
  "originalSTAN": "0",
  "originaltransAmount": "0",
  "settlementDate": "22630831",
  "settlementAmount": "0",
  "transmitDate": "20201210",
  "transmitTime": "140157",
  "clearPan": " ",
  "aiid": " ",
```



```
"fiid": " ",
       "fiidcountry": " ",
       "stan": "30034",
       "feeid": "0"
   ]
 }
Failure Response:
  "processCode": 211,
  "instCode": "FIS",
  "reqMsgId": "201951968545010001",
  "regld": "201909160332160002",
  "transactionDetailsRes": {
    "respCode": "01",
    "respMsg": "NODATA"
  }
}
```

21. Gift Card Order

Gift Card Order API is used to place card order for gift cards. Only the request will be logged in the system. As part of EOD process, the requested cards will be generated.

Request Format:

S.No.	Field	Min- Max	Mandatory?	Data Type	Description	Comments
		Length				
1	instCode	4 - 4	M	AN	Institution Code	
2	giftCardOrderReq	1-50	M	Array		Array of Object
3	pFlag	0-1	0	А	S	If S, system will pocess synchronously else async
4	reqMsgld	18 - 18	M	String	Request Message Id	
5	makerId	0-50	0	String	Maker User Details	
6	checkerId	0-50	0	String	Checker User Details	
7	approverId	0-50	0	String	Approver Details	



Array Elements of giftCardOrderReq Request Object:

Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	reqld	18 -18	М	N	Request id of each request	
2	actionCode	1 -1	М	А	Validation or Execution	V or E
3	branchCode	1-8	М	AN	Branch Code	
4	cardProduct	1-4	М	AN	Card Product	
5	cardCount	1-5	M	N	Card Count	
6	companyName	0-50	0	ANS	This name will be used as emboss name while card creation.	
7	User	1-20	М	ANS	User, who will place card Order	
8	persoBureauName	0-20	0	ANS		Emboss Vendor Name
9	userData1	0-12	0	ANS		User Data 1 (For Future)
10	userData2	0-12	0	ANS		User Data 2 (For Future)
11	amountLoadFlag	1	М	А	Y/N	If amount to be loaded in gift card
12	loadAmount	0-12	СМ	ANS		Amount to be loaded in gift card. Mandatory if amountLoadFlag is Y.

Response Format:

S.No.	Field	Data Type	Description	Comments
1	instCode	String	Institution Code	
2	giftCardOrderRes	JSON Object	JSON Object	
3	processCode	Number	Process Code	
4	reqMsgld	String	Request Message Id	
5	respCode	String	Response Code	
6	respMsg	String	Response message	

Elements of giftCardOrder Object for response



S.No.	Field	Description	DataType	Comments
1	giftCardOrderResponseList	List of response	Array	Array of Object

Array Elements of giftCardOrderResponseList Response Object for success response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each	
			request	
2	respCode	String	Response Code	
3	respMsg	String	Response Message	
4	actionCode	String	Validation or	V or E
			Execution	
5	branchCode	String	Branch Code	
6	cardProduct	String	Card Product	
7	cardCount	String	Card Count	
8	invoiceNo	String	Random number generated for card order requet	It will be generated only for execution request not for validation.
9	User	String	User, who will place card Order	

Array Elements of giftCardOrderResponseList Response Object for failure response:

Sno	Field	Data Type	Description	Comments
1	reqld	String	Request id of each request	
2	respCode	String	Response Code	
3	respMsg	String	Response message	
4	actionCode	String	Validation or Execution	V or E

URL: http<s>://<ip>:<port>/app /rest/v1.0/giftcardorder

Validation Request:



```
"user": "user1",
       "amountLoadFlag":"N"
       },
       {
       "reqld": "201908271919300001",
       "actionCode":"V",
       "branchCode": "0001",
       "cardProduct": "MYMC",
       "cardCount": "00001",
       "user": "user2",
       "amountLoadFlag":"Y",
       "loadAmount":"20000"
       }]
}
Validation Response:
{
         "respCode": "901",
         "respMsg": "Request Processed.",
         "processCode": 101,
         "instCode": "CLNT",
        "reqMsgId": "201951968545010001",
  "giftCardOrderRes": {
         "giftCardOrderResponseList": [
           {
             "reqld": "201908271919300000",
             "respCode": "00",
             "respMsg": "Gift Card Order Validation Done",
             "actionCode": "V",
             "branchCode": "0001",
             "cardProduct": "MYMC",
             "cardCount": "00001",
             "user": "user12222222222222",
             "amountLoadFlag":"N"
           },
           {
             "reqld": "201908271919300001",
             "respCode": "00",
             "respMsg": "Non Perso Card Order Validation Done",
             "actionCode": "V",
             "branchCode": "0001",
             "cardProduct": "MYMC",
             "cardCount": "00001",
             "user": "user3",
             "amountLoadFlag":"Y",
              "loadAmount":"20000"
           }
```



```
}
Execution REQUEST
      "instCode": "CLNT",
      "pFlag": "",
      "reqMsgld": "201951968545010001",
      "giftCardOrderReq":[
      "reqld": "201908271919300000",
      "actionCode":"E",
      "branchCode": "0001",
      "cardProduct": "MYMC",
      "cardCount": "00001",
      "user": "user1",
      "amountLoadFlag":"N"
      },
      "reqld": "201908271919300001",
      "actionCode":"E",
      "branchCode": "0001",
      "cardProduct": "MYMC",
      "cardCount": "00001",
      "user": "user2",
             "amountLoadFlag":"Y",
             "loadAmount":"20000"
      }]
SUCCESS RESPONSE
        "respCode": "901",
        "respMsg": "Request Processed.",
         "processCode": 101,
         "instCode": "CLNT",
      "reqMsgld": "201951968545010001",
 "giftCardOrderRes": {
         "giftCardOrderResponseList": [
           {
             "regld": "201908271919300000",
             "respCode": "00",
             "respMsg": "Bulkiss record processed Successfully",
             "actionCode": "E",
             "branchCode": "0001",
             "cardProduct": "MYMC",
```



```
"cardCount": "00001",
             "invoiceNo": "000000000446",
             "user": "user1",
             "amountLoadFlag":"N"
           },
           {
             "reqld": "201908271919300001",
             "respCode": "00",
             "respMsg": "Bulkiss record processed Successfully",
             "actionCode": "E",
             "branchCode": "0001",
             "cardProduct": "MYMC",
             "cardCount": "00001",
             "invoiceNo": "000000000447",
             "user": "user2",
             "amountLoadFlag":"Y",
              "loadAmount":"20000"
           } ]}
}
```

FAILURE RESPONSE

```
{
         "respCode": "901",
        "respMsg": "Request Processed.",
         "processCode": 101,
         "instCode": "CLNT",
         "giftCardOrderRes": {
         "giftCardOrderResponseList": [
           {
              "regld": "201908271919300000",
              "respCode": "01",
             "respMsg": "Branch [00000001] not found",
              "actionCode":"E"
           },
             "reqld": "201908271919300001",
             "respCode": "01",
             "respMsg": "Branch [0002] not found",
             "actionCode":"E"
           }
         ]}
}
```

22. CVV2 Verification

CVV2 Verification API is to be verify the CVV2 value for a card. CVV2 value shall be sent in the request. **Request Format**:



S. No	Field	Min-Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	М	AN	Institution Code	Example FIS
2	reqld	18	M	N	Id of each request, uniquely identified	
3	pan	16-19	С	Character	Clear card number (or number used for PIN block formation)	
4	vpan	0-32	С	Character	Virtual PAN (or) PAN Alias	
5	cvv2	3	0	String		
6	expDate	1	М	Number	Expiry date	Expiry date in YYMM format.

Response Format:

Sno	Field	Description	DataType	Comments
1	instCode	Institution Code	String	
2	reqMsgld	Request id of each		
		request		
3	respCode	Response Code	String	
4	respMsg	Response message	String	
5	verifyCvvRes	JSON Object	JSON Object	
6	processCode	Process code		

Elements of verifyCvvRes Object for response

S.N	lo.	Field	Description	DataType	Comments
1		verifyCvvResp	List of response	Array	Array of Object

Array Elements of verifyCvvResp Object for success response:

S.No	Field	Description	DataType	Comments
1	reqld	Request id of each request	String	
2	respCode	Response Code	String	Action Code V – Response Code 00 Action Code E – Response Code 00
3	respMsg	Response message	String	
4	vpan	Vpan	String	Based on req it will pe pan or vpan
5	mobileNumber	Mobile Number	String	



6	firstName	First Name	String	
7	accNo	Account Number	String	
8	custCode	Customer Code	String	
9	cvv2	Cvv2 value	String	
10	expDate	Expiry Date	String	

Failure response:

Sno	Field	Description	DataType	
1	reqld	Request id of each request String		
2	respCode	Response Code	String	
3	respMsg	Response message	String	
4	instCode	Institution Code	String	

Note: Either PAN or VPAN should be given as input.

```
URL: http<s>://<ip>:<port>/app/rest/v1.0/verifycvv
```

```
CVV2 Verification Request:
       "instCode":"IEBT",
       "reqMsgId":"202011251341301253",
       "pFlag":"s",
       "verifyCvvReq":[
               {
                      "reqld": "202011251341301253",
                      "pan":"6161610008671396",
                      "cvv2":"137",
                      "expDate":"2506",
                      "mobileNumber": "91996200478",
                      "firstName": "Prabha",
                      "accNo":"0000400046456",
                      "custCode":"CUST00023"
               }
       ]
```

CVV2 Verifcation Response:



```
{
  "respCode": "901",
  "respMsg": "Request Processed.",
  "processCode": 227,
  "instCode": "IEBT",
  "reqMsgId": "202011251341301253",
  "verifyCvvRes": {
    "verifyCvvResp": [
        "respMsg": "CVV verification successful",
        "respCode": "00",
        "cvv2": "137",
        "expDate": "2506"
      }
    ]
  }
}
Failure Response:
  "instCode": "FIS",
  "reqld": "201908271719300000",
  "respCode": "01",
  "respMsg": "CVV verification failed"
}
```

23. Card Details Enquiry

Card details enquiry to get the card product limits and card limits along with channel stauts whether the customer has enabled or disabled. It allows both pan abd VPAN.

Request Format:

Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	М	AN	Institute Code	
2	pFlag	1	0	A	S	If 'S', system will pocess synchronously else Deafult set 'S' [It always synchronous service]
3	reqMsgld	18	М	N	Id of each request	

Cortex API specification - Prepaid 4 pan 19 C AN Clear Car Number



4	pan	19	С	AN	Clear Card	clearPan
					Number.	
5	vpan	15 - 19	С	AN	Virtual Card	vpan
					Number /	
					PAN ALIAS	

Response Format:

S.No.	Field	Description DataType		Comments
1	instCode	Institution Code	AN	
2	2 limitEnquiryRes Response Object		Object	Json Object
3	reqMsgld	Request id of each request	AN	
4	processCode	Number	Process id of each request	
5	reqMsgld	String	Request Message Id	

Elements of limitEnquiryRes Object for success response

Sno	Field	Data Type	Description	Comments
1	custCode	String	Customer Code	
2	pan	String	Card Number	Clear or Encrypted Pan
3	vpan	String	Card Alias	
3	cardStatus	String	Card Status	
4	cardExpiryDate	String	Expiry date	
5	cardProduct	String	Card Product	
6	domAtm	String		Allowed Values are 'Y' or 'N'
7	domPos	String		Allowed Values are 'Y' or 'N'
8	domEcom	String		Allowed Values are 'Y' or 'N'
9	domConless	String		Allowed Values are 'Y' or 'N'
10	intlAtm	String		Allowed Values are 'Y' or 'N'
11	intlPos	String		Allowed Values are 'Y' or 'N'
12	intlEcom	String		Allowed Values are 'Y' or 'N'
13	intlConless	String		Allowed Values are 'Y' or 'N'
14	linkedLimits	Json Object		
15	cardProductLimits	Json Object		

Json object of linkedLimits object:

Sno	Field	Max Length	Mandatory?	Data	Description	Comments
		Length		Type		
1	domAtmLimit		С	String		Domestic ATM Amount
						Limit to be update
2	domPosLimit		С	String		Domestic POS Amount Limit
						to be update

Cort	ex API specification - P	FIS		
3	domEcomLimit	С	String	Domestic ECOM Amount
				Limit to be update
4	domConlessLimit	С	String	Domestic Contact less
				Amount Limit to be update
5	intlAtmLimit	С	String	International ATM Amount
				Limit to be updates
6	intlPosLimit	С	String	International POS Amount
				Limit to be update
7	intlEcomLimit	С	String	International ECOM Amount
				Limit to be update
8	intlConlessLimit	С	String	International Contact less

Json object of cardProductLimits object:

Sno	Field	Max	Mandatory?	Data	Description	Comments
		Length		Type		
1	domAtm		С	String		Allowed Values are 'Y' or 'N'
2	domPos		С	String		Allowed Values are 'Y' or 'N'
3	domEcom		С	String		Allowed Values are 'Y' or 'N'
4	domConless		С	String		Allowed Values are 'Y' or 'N'
5	intlAtm		С	String		Allowed Values are 'Y' or 'N'
6	intlPos		С	String		Allowed Values are 'Y' or 'N'
7	intlEcom		С	String		Allowed Values are 'Y' or 'N'
8	intlConless		С	String		

Array Elements of limitEnquiryRes Object for failure response:

Sno	Field	Description	DataType	Comments
1	reqMsgld	Request id of each request	String	
2	respCode	Response Code	String	99
3	respMsg	Response message	String	No Data

URL: http<s>://<ip>:<port>/app/rest/v1.0/carddetails

Sample Request:

```
{
    "instCode":"IEBT",
    "reqMsgld":"202011171711301250",
    "pFlag":"s",
    "pan":"6161610008671628"
}
```

Sample Response:

```
{
    "respCode": "901",
    "respMsg": "Request Processed.",
    "processCode": 224,
```

Amount Limit to be update



```
"instCode": "EVRG",
  "reqMsgId": "202011171711301250",
  "regld": "202011171711301250",
  "cardFetchRes": {
    "limitEnquiryResp": [
        "domAtm": "Y",
        "domPos": "Y",
        "domEcom": "Y",
        "domConless": "Y",
        "intlAtm": "N",
        "intlPos": "N",
        "intlEcom": "N",
        "intlConless": "N",
        "linkedLimits": {
          "domAtmLimit": "4000.00",
          "domPosLimit": "5000.00",
          "domEcomLimit": "1000.00",
          "domConlessLimit": "200.00",
          "intlAtmLimit": "3000.00",
          "intlPosLimit": "2000.00",
          "intlEcomLimit": "4000.00",
          "intlConlessLimit": "5000.00"
        },
        "cardProductLimits": {
          "domAtmLimit": "10000.00",
          "domPosLimit": "10001.00",
          "domEcomLimit": "10002.00",
          "domConlessLimit": "10003.00",
          "intlAtmLimit": "20000.00",
          "intlPosLimit": "20001.00",
          "intlEcomLimit": "20002.00",
          "intlConlessLimit": "20003.00"
        }
      }
    ]
 }
}Failure Response:
          "processCode": 224,
          "instCode": "CLNT",
          "reqMsgld": "201951968545010001",
          "regld": "201908271919300000",
          "limitEnquiryRes": {
            "regld": "201908271919300000",
            "respCode": "01",
            "respMsg": "NODATA"
          }
        }
```



24. Channel Update

Channel update helps to update the channels either to allow or deny during transactions. It allows to update all the channels like ATM, POS, ECOM and Contact less for both domestic and international.

Request Format:

Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	М	AN	Institute Code	
2	pFlag	1	0	A	S	If 'S', system will pocess synchronously else Deafult set 'S' [It always synchronous service]
3	reqMsgId	18	M	N	Id of each request	
4	pan	19	С	AN	Clear Card Number.	clearPan
5	vpan	15 - 19	С	AN	Virtual Card Number / PAN ALIAS	vpan
6	domAtm	0-1	С	String		Allowed Values are 'Y' or 'N'
7	domPos	0-1	С	String		Allowed Values are 'Y' or 'N'
8	domEcom	0-1	С	String		Allowed Values are 'Y' or 'N'
9	domConless	0-1	С	String		Allowed Values are 'Y' or 'N'
10	intlAtm	0-1	С	String		Allowed Values are 'Y' or 'N'
11	intlPos	0-1	С	String		Allowed Values are 'Y' or 'N'
12	intlEcom	0-1	С	String		Allowed Values are 'Y' or 'N'
13	intlConless	0-1	С	String		Allowed Values are 'Y' or 'N'
14	makerld	0-50	0	String	Maker User Details	
15	checkerId	0-50	0	String	Checker User Details	
16	approverId	0-50	0	String	Approver Details	

Response Format:



S.No.	Field	Description	Comments
1	instCode	Institution Code	
2	channelUpdateRes	JSON Object	JSON Object
3	processCode	Number	Process id of each request
4	reqMsgld	String	Request Message Id
5	respCode	String	Response Code
6	respMsg	String	Response message

Elements of channelUpdateRes Object for response

Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	responseCode	2-3	М	String		Response code of the request
2	status	1-50	M	String		Response Description

URL: http<s>://<ip>:<port>/app/rest/v1.0/channelupdate

Sample Request:

```
"instCode":"FIS",
        "reqMsgId":"201908271919300000",
        "clearPan": "dER1W898jiui2o45zmgMoA==. Y2dJsYeA1cuYiF66e4osVA==",
        "vpan":"PMVC00000000299",
        "makerId":"",
        "checkerId":"",
        "approverId":"",
        "domAtm":"Y",
        "domPos":"Y",
        "domEcom":"Y",
        "domConless":"Y",
        "intlAtm":"Y",
        "intlPos":"Y",
        "intlEcom":"Y",
        "intlConless":"Y"
        }
Success Response:
```

"reqMsgId":"201908271919300000",

"instCode":"FIS",

"processCode":"223",
"respCode":"901",



```
"respMsg":"Request Processed.",
    "channelUpdateRes": {
    "responseCode":"000",
    "status":"Success"
    }
}
Failure Response:

{
    "respCode": "904",
    "respMsg": "Missing the pan / vPan",
    "processCode": 223,
    "instCode": "FIS",
    "reqMsgId": "202051968545010005",
    "reqId": "202008271919300004"
}
```

25. Limit Update

API used to update card limits for both Domestic and International. It allows both PAN and VPAN.

Request Format:

Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	instCode	4	M	AN	Institute Code	
2	pFlag	1	0	A	S	If 'S', system will pocess synchronously else Deafult set 'S' [It always synchronous service]
3	reqMsgld	18	M	N	Id of each request	
4	pan	19	С	AN	Clear Card Number.	clearPan
5	vpan	15 - 19	С	AN	Virtual Card Number / PAN ALIAS	vpan
4	domAtmLimit		С	String		Domestic ATM Amount Limit to be update
5	domPosLimit		С	String		Domestic POS Amount Limit to be update
6	domEcomLimit		С	String		Domestic ECOM Amount Limit to be update

Cort	ex API specification	- Prepaid				
7	domConlessLimit		С	String		Domestic Contact less Amount Limit to
						be update
8	intlAtmLimit		С	String		International ATM
						Amount Limit to be
						updates
9	intlPosLimit		С	String		International POS
						Amount Limit to be
						update
10	intlEcomLimit		С	String		International ECOM
						Amount Limit to be
						update
11	intlConlessLimit		С	String		International
						Contact less Amount
						Limit to be update
12	makerId	0-50	0	String	Maker User	
					Details	
13	checkerId	0-50	0	String	Checker	
					User	
					Details	
14	approverId	0-50	0	String	Approver	
					Details	

Response Format:

S.No.	Field Description		Comments
1	instCode	Institution Code	
2	limitUpdateRes	JSON Object	JSON Object
3	processCode	Number	Process id of each request
4	reqMsgld	String	Request Message Id
5	respCode	String	Response Code
6	respMsg	String	Response message

Elements of limitUpdateRes Object for response

Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	responseCode	2-3	M	String		Response code of the
						request
2	status	1-50	M	String		Response Description

URL: http<s>://<ip>:<port>/app/rest/v1.0/cardlimit



Sample Request:

```
"instCode":"FIS",
        "reqMsgId":"201908271919300000",
        "clearPan": "dER1W898jiui2o45zmgMoA==. Y2dJsYeA1cuYiF66e4osVA==",
        "vpan":"PMVC00000000299",
                 "domAtmLimit":"1000",
                 "domPosLimit":"1000",
                 "domEcomLimit":"1000",
                 "domConlessLimit": "1000",
                 "intlAtmLimit":"1000",
                 "intlPosLimit":"1000",
                 "intlEcomLimit":"1000",
                 "intlConlessLimit":"1000"
Sample Response:
        "instCode": "FIS",
        "reqMsgId":"201908271919300000",
        "processCode":"225",
        "respCode":"901",
        "respMsg":"Request Processed ",
        "limitUpdateRes":{
        "responseCode":"000",
        "status":"Success"
Failure Response:
        "respCode": "904",
        "respMsg": "Missing the pan / vPan",
        "processCode": 225,
        "instCode": "FIS",
        "reqMsgId": "202051968545010005",
        "reqld": "202008271919300004"
        }
```

26. Card Limit and Channel Update

Card Limit and Channel update helps to update both limit and channel. Here also VPAN and PAN allowed

Request Format:

Sno	Field	Max	Mandatory?	Data	Description	Comments
		Length		Type		
1	instCode	4	М	AN	Institute	
					Code	
2	pFlag	1	0	Α	S	If 'S', system
						will pocess
						synchronously
						else Deafult

Cort	ex API specification - Pro	epaid				
						set 'S' [It always synchronous service]
3	reqMsgld	18	M	N	Id of each request	
4	pan	19	С	AN	Clear Card Number.	clearPan
5	vpan	15 - 19	С	AN	Virtual Card Number / PAN ALIAS	vpan
6	limitDetails	1-1	М	Json Object	Limit details	
7	channelAccessDetails	1-1	М	Json Object	Channel Access Details	
5	makerld	0-50	0	String	Maker User Details	
6	checkerId	0-50	0	String	Checker User Details	
7	approverId	0-50	0	String	Approver	

Details

Elements of limitDetails object:

Sno	Field	Max Length	Mandatory?	Data Type	Description	Comments
1	domAtmLimit		С	String		Domestic ATM Amount Limit to be update
2	domPosLimit		С	String		Domestic POS Amount Limit to be update
3	domEcomLimit		С	String		Domestic ECOM Amount Limit to be update
4	domConlessLimit		С	String		Domestic Contact less Amount Limit to be update
5	intlAtmLimit		С	String		International ATM Amount Limit to be updates
6	intlPosLimit		С	String		International POS Amount Limit to be update
7	intlEcomLimit		С	String		International ECOM Amount Limit to be update
8	intlConlessLimit		С	String		International Contact less Amount Limit to be update



Elements of channelAccessDetails object:

Sno	Field	Max	Mandatory?	Data	Description	Comments
		Length		Type		
1	domAtm		С	String		Allowed Values are 'Y' or 'N'
2	domPos		С	String		Allowed Values are 'Y' or 'N'
3	domEcom		С	String		Allowed Values are 'Y' or 'N'
4	domConless		С	String		Allowed Values are 'Y' or 'N'
5	intlAtm		С	String		Allowed Values are 'Y' or 'N'
6	intlPos		С	String		Allowed Values are 'Y' or 'N'
7	intlEcom		С	String		Allowed Values are 'Y' or 'N'
8	intlConless		С	String		

NOTE:

- To update card limits at least one Limit Field is Mandatory.
- To Update Card channel access at least One Field is Mandatory.

Response Format:

S.No.	Field	Description	Comments
	to contra	Leading the Contra	
1	instCode	Institution Code	
2	limitAndChannelUpdateRes	JSON Object	JSON Object
3	processCode	Number	Process id of each request
4	reqMsgld	String	Request Message Id
5	respCode	String	Response Code
6	respMsg	String	Response message

${\bf Elements\ of\ limit} {\bf And Channel Update Res\ Object\ for\ response}$

Sno	Field	Max	Mandatory?	Data	Description	Comments
		Length		Type		
1	responseCode	2-3	М	String		
2	status	1-50	М	String		Response Description

URL: http<s>://<ip>:<port>/app/rest/v1.0/ cardlimitandchannel

Sapmle Request:

```
{
"instCode":"FIS",
"reqMsgId": "201951968545010001",
```



```
"pan":"dER1W898jiui2o45zmgMoA==. Y2dJsYeA1cuYiF66e4osVA==",
         "vpan":"PMVC00000000299",
         "makerId":"",
         "checkerId":"",
         "approverId":"",
         "limitDetails":{
         "domAtmLimit":"1000",
         "domPosLimit":"1000",
         "domEcomLimit":"1000",
         "domConlessLimit": "1000",
         "intlAtmLimit":"1000",
         "intlPosLimit":"1000",
         "intlEcomLimit":"1000",
         "intlConlessLimit":"1000"
        },
         "channelAccessDetails":{
         "domAtm":"Y",
         "domPos":"Y",
         "domEcom":"Y",
         "domConless":"Y",
         "intlAtm":"Y",
         "intlPos":"Y",
         "intlEcom":"Y",
         "intlConless":"Y"
        }
Response Format:
         "instCode":"FIS",
         "reqMsgId":"201908271919300000",
         "processCode":"223",
         "respCode":"901",
         "respMsg":"Request Processed.",
         "limitAndChannelUpdateRes": {
         "responseCode":"000",
         "status": "Success"
        }
        }
```

27. ERROR CODE AND MESSAGE

Code	Message
196	Failure, need to send request again
401	Unauthorized, Request declined. Need proper
	authentication to process the request.
202	Success, Request Accepted and pushed to the process
	queue
901	Request Processed.
902	No Records Found
903	Request Id (reqid) Not Found or Not Valid
904	Someting went wrong
905	Unable to process more than 6 requests



906	Application Error
907	Applicaion down. Try again later.";
908	Inst Code mismatch
909	Timed Out

To process Async request, below response code will be used for acknowledgement. Each request will be acknowledged with one of these codes.

Code	Message
202	Success, Request Accepted and pushed to the process
	queue
401	Unauthorized, Request declined. Need proper
	authentication to process the request.
196	Failure, need to send request again
907	Applicaion down. Try again later.";

Source should retry the below response codes.

Code	Message
196	Failure, need to send request again
401	Unauthorized, Request declined. Need proper
	authentication to process the request.
904	Cortex Down. Try later
905	Unable to process more than 6 request
906	Application Error
907	Applicaion down. Try again later.";
909	Timed Out

Annxure 1 – Authman integration – java code for reference

package client;

import java.security.Key;

import java.security.SecureRandom;

import java.security.Security;

import java.util.Base64;

import javax.crypto.Cipher;

import javax.crypto.spec.lvParameterSpec;

import javax.crypto.spec.SecretKeySpec;

import org.bouncycastle.jce.provider.BouncyCastleProvider;



```
public class EncryptFields {
       public static void main(String[] args) throws Exception {
              String base64SessionKey = "c2liMTlzNDU2Nzg5MTlzNA==";
              String instld = "12345678";
              Security.addProvider(new BouncyCastleProvider());
              EncryptFields enc = new EncryptFields();
              System.out.println(enc.encrypt(instld, base64SessionKey));
       }
       public String encrypt(final String plainValue, final String key) throws Exception {
              Cipher cipher = this.getEncryptionCipher(key);
              final byte[] encryptedBytes = cipher.doFinal(plainValue.getBytes("UTF-8"));
              byte[] iV = cipher.getIV();
              return new String(Base64.getEncoder().encode(encryptedBytes)) + "."
                             + new String(Base64.getEncoder().encode(iV));
       }
       private Cipher getEncryptionCipher(final String key) throws Exception {
              final Key aesKey = new SecretKeySpec(Base64.getDecoder().decode(key), "AES");
              final Cipher encryptionCipher = Cipher.getInstance("AES/CBC/PKCS5Padding",
"BC");
              IvParameterSpec ivParameterSpec = new IvParameterSpec(generateIv());
              encryptionCipher.init(Cipher.ENCRYPT_MODE, aesKey, ivParameterSpec);
              return encryptionCipher;
       }
       private byte[] generatelv() {
              SecureRandom random = new SecureRandom();
              byte[] ivBytes = new byte[16];
              random.nextBytes(ivBytes);
              return ivBytes;
       }
}
```