Shopping Mall Integration Document

Submitted to



**On**

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**By**



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| Verified By | Arun Vasan R |  |  |

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**Shopping Mall Payment:**

The first API would be the payment initiation API. Here is the sample plain text and encryption URL

**Payment URL:**

http://<DOMAIN\_NAME>/<CONTEXT\_ROOT>/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFGHYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"&HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"\_\_START\_TRAN\_FLAG\_\_=YHYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"&HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"FG\_BUTTONS\_\_=LOADHYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"&HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"ACTION.LOAD=YHYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"&HYPERLINK 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HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"&HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"AuthenticationFG.USER\_TYPE=1HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"&HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"AuthenticationFG.MENU\_ID=CIMSHPHYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"&HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"AuthenticationFG.CALL\_MODE=2 &CATEGORY\_ID=802HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"&HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"RU=HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"<HYPERLINK "https://www.idbionline.co.in/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=022&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&RU=%3cENCODED"ENCRYPTED AS WELL AS ENCODED RETURN\_URL>&QS=<ENCRYPTED AS WELL AS ENCODED QUERY\_STRING>

**Sample Plain Text / Unencrypted URL:**

http://<DOMAIN\_NAME>/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=01&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&CATEGORY\_ID=802&RU=http://www.google.com&QS=ShoppingMallTranFG.TRAN\_CRN~INR|ShoppingMallTranFG.TXN\_AMT~11|ShoppingMallTranFG.PID~42675|ShoppingMallTranFG.PRN~111163|ShoppingMallTranFG.ITC~abcde|ShoppingMallTranFG.DEBIT\_ACCOUNT\_ID~0502000000008035|ShoppingMallTranFG.CHECK\_SUM~503C58131CC49C57954DA1F521D399DBC6A8B10E755FD94976ECD8CE0512A2EF

**Sample Encrypted URL:**

http://<DOMAIN\_NAME>/corp/AuthenticationController?FORMSGROUP\_ID\_\_=AuthenticationFG&\_\_START\_TRAN\_FLAG\_\_=Y&FG\_BUTTONS\_\_=LOAD&ACTION.LOAD=Y&AuthenticationFG.LOGIN\_FLAG=1&BANK\_ID=01&AuthenticationFG.USER\_TYPE=1&AuthenticationFG.MENU\_ID=CIMSHP&AuthenticationFG.CALL\_MODE=2&CATEGORY\_ID=802&RU=http://www.google.com&QS=qhMP1Nz0dQTylNN2HJqZLjLZMX1B4M6Q80z3rvznhY6qEw%2FU3PR1BPKU03Ycmpkuk93pzbmZgB4PGDNDAr4HV8qUVJej0Hfzmu7GF3Y9zRerO%2BNc4DeWxbsbGUIFonVa%0D%0AArivUbHYlrEdIGJJjuhp7ZdR7XMT2CtRc0e74YkupimKGKhpLfEWgumHNZ2kZ14cYLHF5XPdJ%2By9pQ%2BYim%2B%2FCHim%2B7wkYhbRZgvoXUTtP%2BQShSKntPWcZeDTcqzrH7mauWZo%0D%0AMtdNZ1kpGNyp%2BOlJ8Xt4QisZRF0untl6vrCDrCeETSbe%2FFx%2F1TG7borVMyALhv2tDDW9YMd2jiqB18lg3rF5B%2FvKA6LogCIlnqGmQD1Rr8SzVw3GUeKZx9CposAVYLgg9Okn%0D%0AtRfYZN4Tw3%2FI8A%3D%3D

The parameter details and the sample value provide in the below tabular column for reference. In this one category is specific to the Payment Gateway provider. The domain name provided here is NTB UAQ environment.

|  |  |  |
| --- | --- | --- |
| Name of the Parameter | Description | Sample |
| DOMAIN\_NAME | Refers to the domain name of the bank for that specific environment. | 172.23.98.16:8085 |
| CONTEXT\_ROOT | Refers to context root mapped for that specific environment. | Corp |
| BANK\_ID | Bank id of that bank. | 01 |
| RU | Return URL or Response URL or Verification URL | http://www.google.com? |
| QS | Query String which holds the parameters of the transaction | <Sample given and explained in next section> |
| CATEGORY\_ID | Refers to the encryption category defined for this payee | 802 |

**Sample Query String:**

ShoppingMallTranFG.TRAN\_CRN~INR|ShoppingMallTranFG.TXN\_AMT~11|ShoppingMallTranFG.PID~42675|ShoppingMallTranFG.PRN~111163|ShoppingMallTranFG.ITC~abcde|ShoppingMallTranFG.DEBIT\_ACCOUNT\_ID~0502000000008035|ShoppingMallTranFG.CHECK\_SUM~503C58131CC49C57954DA1F521D399DBC6A8B10E755FD94976ECD8CE0512A2EF

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the Parameter** | **Description** | **Datatype** | **Max Length** | **Sample** |
| **TRAN\_CRN** | Transaction Currency - INR | NVARCHAR2 | 3 | INR |
| **TXN\_AMT** | Transaction Amount in the above currency | NUMBER | 18 | 12 |
| **PID** | Payee Id | NUMBER | 10 | 42675 |
| **PRN** | (external\_ref\_no) Unique reference number generated by merchant aggregator to be passed and will be validated in EBanking. | NVARCHAR2 | 32 | 111159 |
| **ITC** | (txnd – consumer code) End merchant Name and end merchant reference number to be passed here | NVARCHAR2 | 350 | abcde |
| **DEBIT\_ACCOUNT\_ID** | Debit Account number | NVARCHAR2 | 16 | 0502000000008035 |
| **CHECK\_SUM** | Check Sum (SHA256 Algorithm) | NA | NA |  |

**Sample FEBA Return URL**

http://<RETURN\_URL>?PAID=Y&BID=191651&CRN=INR&AMT=10&PID=42675&PRN=111159&ITC=abcde&ACCT\_NO=0502000000008035&CHECK\_SUM=E202ED95BC1D4E2F5AF13A0451002AA8C924D05C13100DAC95CEE7272F2A67B1

|  |  |  |  |
| --- | --- | --- | --- |
| Name of the Parameter | Description | Datatype | Max Length |
| RETURN\_URL | Refers to Return URL sent in the payment request URL |  |  |
| PAID | Status of the transaction – Y,N | CHAR | 1 |
| BID | Transaction Reference No generated by Finacle E-Banking | NUMBER | 10 |
| CRN | Transaction Currency – INR | NVARCHAR2 | 3 |
| AMT | Transaction Amount in the above currency | NUMBER | 18 |
| PID | Payee Id | NUMBER | 10 |
| PRN | Product Reference No provided by the payee | NVARCHAR2 | 32 |
| ITC | Item Code specific to payee | NVARCHAR2 | 350 |
| CHECK\_SUM | Check Sum (SHA256 Algorithm) | NA | NA |

Sample Encrypted & Encoded FEBA Return URL

1. Return URL format:

http://<RETURN\_URL>?<ENCRYPTED AS WELL AS ENCODED STRING>

1. Sample URL for example

http://<RETURN\_URL>?L4S%2FIaEWPxVeWiI49LD7jlfIqWcLvljIbXSU4PRHjWOsOViF5AcxuEdalAJUATiYivf2IZSQZSBmmS1TgT%2BVpFgg%2FvPwfs%2BX6pYseq0YIEYnG5WGdfSk60S4wyKqGjYc%0D%0AFddUCJQyxc6rin5Bgf5HbiD2jHEDNpz0zMgdHLPxsX9ZKdeT26ELH8uIe%2B0CK5ea5%2FH5zM%2FzX8cXQG3dv8RP6pH%2FE52zpvg5FYGYInxXmvI%3D

**2. Shopping Mall Verification:**

The second API is the verification API. Once the payment is done successfully the page will be redirected to the return URL specified in the RU parameter with encrypted value along with check sum. The payment done has to be verified by calling this shopping mall verification API. This is the API to be consumed by the Payment Gateway service provider before showing the success message to the end user.

**Non-Encrypted URL:**

https://<DOMAIN\_NAME>/<CONTEXT\_ROOT>/VEService?BANK\_ID=<BANK\_ID>&CATEGORY\_ID=802&QSV=TXN\_STATUS~SUCCESS|BID~191651|AMT~10|ITC~abcde|PID~42675|PRN~111159|CRN~INR|CHECK\_SUM~C0AF3B277B74EFE1D2723D827D5A2F2762C8979EEA8B6C13AE1CDC8421ED41B3

**Encrypted URL:**

https://<DOMAIN\_NAME>/<CONTEXT\_ROOT>/VEService?BANK\_ID=<BANK\_ID>&CATEGORY\_ID=802&QSV=k3heI0tq6aCXCASrXgVP0RB1msMg6fXVE1QNy11wXpwHzrrZr6Gt%2Bd0VAeNTwrmjvuv16Lt1SnKn8G4VUGwbiAjHblaOuKOkg%2Fa3ls1VpuvWV1M4iH6D1QBdDiwW5rxk%0D%0ANsqwd4zF9dxsxc1j05m%2B%2FptXYQp9Bmaxu9KP1Geeg3xozk%2FMmRTEvSjWLp0gq25XJPiWAUuiKysTc%2BOLVPNxYQ%3D%3Dhttps://<DOMAIN\_NAME>/<CONTEXT\_ROOT>/VEService?BANK\_ID=<BANK\_ID>&CATEGORY\_ID=801&QSV=r7ROT5t1x8HzwN1o%2FSHPN3xGVXv6zv8EFiGxJHt9%2BnHWhvKlfUuUSU9e5UDDmh1BE%2FfPBBhkJwziJTEBdrExDdPBw4DQQRqIxg9BAqhXE8UkXwZ2N0dLQeY%2F20G7HUuF%0D%0AYyy%2FD1hsn5zOrld%2B8WlxlqsjG0OayMaLm87nyEq%2FlegNGK0chTD9735ADb985DECccJZiE7bKJBZNJFRsY%2Fndg%3D%3Dhttps://<DOMAIN\_NAME>/<CONTEXT\_ROOT>/VEService?BANK\_ID=<BANK\_ID>&CATEGORY\_ID=801&QSV=r7ROT5t1x8HzwN1o%2FSHPN3xGVXv6zv8EFiGxJHt9%2BnHWhvKlfUuUSU9e5UDDmh1BE%2FfPBBhkJwziJTEBdrExDdPBw4DQQRqIxg9BAqhXE8UkXwZ2N0dLQeY%2F20G7HUuF%0D%0AYyy%2FD1hsn5zOrld%2B8WlxlqsjG0OayMaLm87nyEq%2FlegNGK0chTD9735ADb985DECccJZiE7bKJBZNJFRsY%2Fndg%3D%3Dhttps://<DOMAIN\_NAME>/<CONTEXT\_ROOT>/VEService?BANK\_ID=<BANK\_ID>&CATEGORY\_ID=801&QSV=r7ROT5t1x8HzwN1o%2FSHPN3xGVXv6zv8EFiGxJHt9%2BnHWhvKlfUuUSU9e5UDDmh1BE%2FfPBBhkJwziJTEBdrExDdPBw4DQQRqIxg9BAqhXE8UkXwZ2N0dLQeY%2F20G7HUuF%0D%0AYyy%2FD1hsn5zOrld%2B8WlxlqsjG0OayMaLm87nyEq%2FlegNGK0chTD9735ADb985DECccJZiE7bKJBZNJFRsY%2Fndg%3D%3D

|  |  |  |
| --- | --- | --- |
| Name of the Parameter | Description |  |
| DOMAIN\_NAME | Refers to the domain name of the bank for that specific environment. | 172.23.98.16:8085 |
| CONTEXT\_ROOT | Refers to context root mapped for that specific environment. | corp |
| BANK\_ID | Bank id of that bank. | 01 |
| CATEGORY\_ID | Refers to the encryption category defined for this payee | 802 |

**Query String Non-Encrypted**

QSV=TXN\_STATUS~SUCCESS|BID~191651|AMT~10|ITC~abcde|PID~42675|PRN~111159|CRN~INR|CHECK\_SUM~C0AF3B277B74EFE1D2723D827D5A2F2762C8979EEA8B6C13AE1CDC8421ED41B3

**Query String Encrypted**

QSV=k3heI0tq6aCXCASrXgVP0RB1msMg6fXVE1QNy11wXpwHzrrZr6Gt%2Bd0VAeNTwrmjvuv16Lt1SnKn8G4VUGwbiAjHblaOuKOkg%2Fa3ls1VpuvWV1M4iH6D1QBdDiwW5rxk%0D%0ANsqwd4zF9dxsxc1j05m%2B%2FptXYQp9Bmaxu9KP1Geeg3xozk%2FMmRTEvSjWLp0gq25XJPiWAUuiKysTc%2BOLVPNxYQ%3D%3D

|  |  |  |  |
| --- | --- | --- | --- |
| Name of the Parameter | Description | Datatype | Sample |
| TXN\_STATUS | Status of the transaction | NVARCHAR2 | SUCCESS |
| BID | Transaction Reference No generated by Finacle E-Banking | NUMBER | 191651 |
| CRN | Transaction Currency | NVARCHAR2 | INR |
| AMT | Transaction Amount in the above currency | NUMBER | 234 |
| PID | Payee Id | NUMBER | 42675 |
| PRN | Product Reference No provided by the payee | NVARCHAR2 | 111159 |
| ITC | Item Code specific to payee | NVARCHAR2 | abcde |
| CHECK\_SUM | Check Sum (SHA256 Algorithm) | NA | NA |

1. **AES 256 Encryption and Checksum generation:**

Attached files has the logic for checksum generation and AES256 encryption

Currently the AES Encryption key and Checksum key are given as per UAT configuration.

