

#### **CBEBIT PAYMENT GATEWAY FINAL INTEGRATION DOCUMENT**

## Step 1

prepare all the necessary data to be sent. The data to be sent are:

- ★ UserID
- **★** Password
- **★** TransactionId
- ★ Amount
- ★ Merchant Code

## Step 2:-.

2.1 Prepare Hashing payload as Follows

```
payload={
    "U":"UserID",
    "W": "Password",
    "T":"TransactionId",
    "A": "Amount",
    "MC": "MerchantCode",
    "Key":"Key"
}
```

2.2 Now prepare a Method that has the following functionalities

#1 the method should Sort the inputted payload with the key as follows

```
newPayload={
    "A": "Amount",
    "Key":"Key",
    "MC": "MerchantCode",
    "T":"TransactionId",
    "W": "Password",
    "U":"UserID"
    }
```

#2 the method should Convert the above sorted map to the following String and return that string

**ProcessedPayload=**"A=Amount&Key=Key&MC=MerchantCode&T=Trans actionId&U=UserID&W=Password"

To do this you can use the following code snippet

List<String> temp = new ArrayList<>();
for (Map.Entry<String, String> entry : payload.entrySet()) {
 temp.add(String.format("%s=%s", entry.getKey(), entry.getValue()));
}

return String.join("&", temp);

2.3 Now Hash the Above processedPayload With the Hashing algorithm we provided

#### Step 3

Encrypt each individual data to be sent using the key and encryption algorithm we provided.

- ★ UserID
- **★** Password
- **★** TransactionId
- **★** Amount
- ★ Merchant Code
- ★ Hash value.

## Step 4

```
After encrypting each data individually format it in the following json format {
"U":"EncryptedUserID",
"W": "EncryptedPassword",
"T":"EncryptedTransactionId",
"A": "EncryptedAmount",
"MC": "EncryptedMerchantCode",
"HV":"EncryptedHashValue"
}
```

# Step 5

Encrypt the above whole json using the encryption algorithm and key we provided.

## Step 6

After preparing the encrypted data send it as a query parameter as indicated below.

https://cbebirrpaymentgateway.cbe.com.et:8888/Default.aspx?r=encrypteddata

## Step 7

Prepare an endpoint where we will announce you the transaction status.

- 7.1 we will be Sending Encrypted body as follows so accept likewise {"EncVal",EncryptedResponseValue}
- 7.2 decrypt the EncryptedResponseValue and deserialize it you will get the following json

- 7.4 pass the payload to the method you created in step 2 and hash the response from this method
- 7.5 check whether the hashed value from 7.4 is equal to the signature from 7.2 If they are not equal the data is altered in some way,

## Step 8

You can send a transactionId at any time to see its status along with the following Api.

https://cbebirrpaymentgateway.cbe.com.et:8888/api/cbebpg/TXNSTAT

8.1 Prepare Hashing payload as Follows

```
payload={
```

```
"transactionId":"transactionId",
            "Tillcode": "tillcode",
            "Key": "Private Hashing Key"
8.2 pass the payload to the method you created in step 2 and hash the response
from this method
Send your requestBody in the following format
"transactionId":"transactionId",
"Tillcode": "tillcode",
"Signiture": "hashvalue"
}
8.3 we will be Sending Encrypted response body as follows so accept like wise
      EncryptedResponseValue
8.4 decrypt the EncryptedResponseValue and deserialize it you will get the
following ison
      "Tillcode": "ShortCode",
      "TransactionId": "TransactionId",
      "State": "State",
      "TNDDate": "TNDDate",
      "Signiture": 6132f47a9d53914ca2ee607b051e3f294362d710f904794216e
      ee40c57b22b26"}
8.5 Prepare Hashing payload as Follows
      payload={
            "Tillcode": "ShortCode",
            "TransactionId": "TransactionId",
            "State": "State",
            "TNDDate": "TNDDate",
            "Key": "Private Hashing Key"
8.6 pass the payload to the method you created in step 2 and hash the response
```

- from this method
- 8.7 check whether the hashed value from 7.4 is equal to the signature from 7.2 If they are not equal the data is altered in some way,

# Thank you!