

mATM SDK INTEGRATION SPECIFICATIONS



Document Revision History

Version	Date	Description	Approving Authority
1.0	29 Aug 2022	Initial Draft	Product Owner
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1.9	14 Feb 2023	Standardization Dependencies are now up to date.	Product Owner
2.0	02 Mar 2023	Standardization - Dependencies are now up to date. - Data Model and Sample Code are now up to date.	Product Owner
2.1	15 Mar 2023	Standardization - Dependencies are now up to date. - Code snippet for Callback Response is now up to date. - Reinitiate Webhook API is now up to date.	Product Owner
2.2	28 June 2023	Modification - Dependency update (supporting both integrated and smart devices.) - Data model class updated. - Code snippet added to custom application class.	Product Owner
2.3	10 Jul 2022	Standardization Transaction Status Enquiry API standardized.	Product Owner

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ISERVEU MATM SDK INTEGRATION SPECIFICATIONS

V2.3

Abstract

A micro ATM (Automated Teller Machine) is a small, portable electronic device that allows people to perform basic banking transactions. Micro ATMs can be an effective tool to promote financial inclusion and expand the reach of banking services to unbanked or underbanked areas. They can also reduce the cost and time required for traditional banking transactions, making financial services more accessible to low-income individuals and small businesses. This document provides the details of our expertly tailored SDK that ensures effective usage of the different mATM features.

Table of Contents

1	Introduction	4
1.1	How does integration work?	4
2	App Links (Staging Environment) for the both Smart and Integrated Devices. 5	
2.1	Demo App Link	5
2.2	Link for Service INApp (Smart devices)	5
2.3	Link for Service GDrive (Integrated devices).....	5
3	SDK Initialization.....	6
3.1	Step 1: Change the build.gradle (: app) file by doing the following changes.....	6
3.2	Step 2: Adding Dependencies.....	6
3.3	Step 3: Add this to the settings.gradle (Project Settings)	7
3.4	Step 4: Add this in the gradle.properties (Project Properties).....	7
3.5	Step 5: Add the following permissions in the manifest file.....	7
3.6	Step 6: Manifest Queries entry.....	7
4	Calling the SDK, parameters required and design data model class	8
4.1	Step 1: How to call the SDK	8
4.2	Step 2: Required Parameters to be send to the SDK.....	11
4.3	Step 3: Data Model Class.....	12
4.4	Step 4: Sample Code for passing data through the data model.....	14
4.5	Step 5: Code Snippet for Callback Response (Optional for User)	16
4.6	Required Keys to get the transaction data from the Callback.....	17
4.7	An example of a successful transaction	18
5	Transaction Status Enquiry API.....	19
5.1	Header	19
5.2	Request Body Parameters	19
5.3	Sample Request Body.....	20
5.4	Response Body Parameters.....	20
5.5	Sample Response body	21
5.5.1	Success	21
5.5.2	Success (with no data)	22

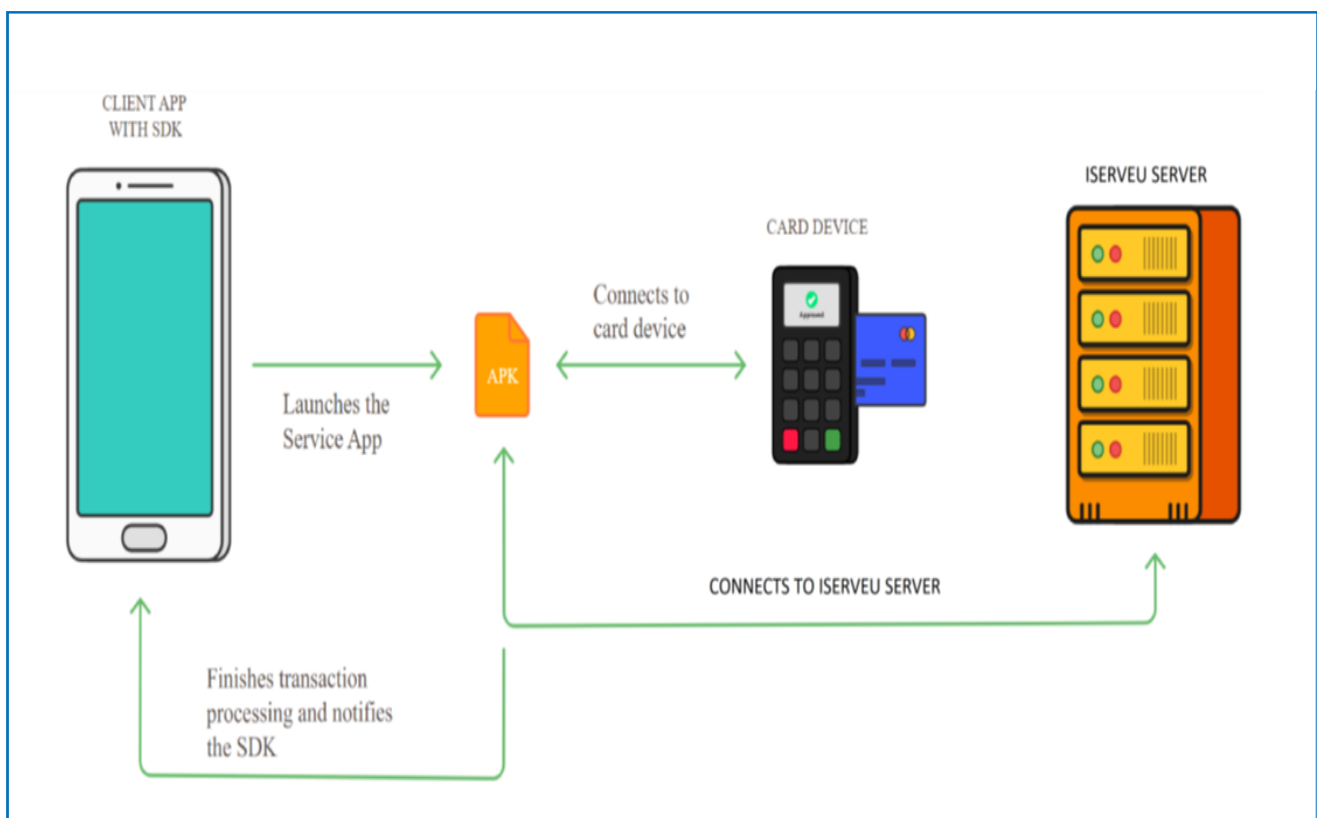
5.5.3	Failed	22
5.5.4	Failed (Wrong First Parameter)	22
5.6	Status Codes.....	22
6	Agent Registration (Single)	23
6.1	Headers.....	23
6.2	Request Body Parameters	23
6.3	Sample Request Body.....	24
6.4	Response Body Parameters.....	25
6.5	Sample Response Body	26
6.5.1	Success	26
6.5.1.1	User Created	26
6.5.2	Failed	26
6.5.2.1	Duplicate BC Agent ID	26
6.5.2.2	Missing BC Agent ID.....	26
6.6	Status Codes.....	27
7	Webhook API	28
7.1	Request Body Parameters	28
7.2	Sample Request Body	29
7.2.1	mATM Cash Withdrawal.....	29
7.2.2	mATM Balance Enquiry (Auth Success).....	30
7.2.3	mATM Balance Enquiry (Auth Declined)	30
7.3	Response Body Parameters.....	31
7.4	Sample Response Body	31
7.4.1	Success	31
7.4.2	Failure	31
7.5	Status Codes.....	32
8	Re-Initiate Webhook API	33
8.1	Headers.....	33
8.2	Response Body Parameters.....	33
8.3	Sample Response Body	33
8.3.1	Success	33
8.3.2	Failed	34
8.4	Status Codes.....	34
9	HTTP Error-codes and Description.....	35

1 Introduction

Welcome to iServeU Payments SDK integration! Our SDK with Standard UI or SDK UI is the fastest and most hassle-free solution for you to collect payments in your mobile app. All you need to do to initiate a transaction with mandatory parameters to our SDK and then everything will be taken care of by iServeU.

1.1 How does integration work?

1. Include the SDK in your mobile application to collect payments.
2. SDK interfaces with a Service App, this App will be installed during run-time.
3. Service App interacts with the Card Device and iServeU servers to finish payment processing and notifies the status to SDK.



[Back to the Table Of Contents](#)

2 App Links (Staging Environment) for the both Smart and Integrated Devices

2.1 Demo App Link

https://drive.google.com/file/d/12LBzpN7lPuchSfymvL_qTcx5DbzdS-jw/view?usp=sharing

2.2 Link for staging Service INApp (Smart devices)

<https://liveappstore.in/shareapp?com.matm.staging=>

2.3 Link for staging Service GDrive (Integrated devices)

[https://drive.google.com/file/d/1JnKBTnWAIGv9y4J6E68GK28eneY-shPC/view?usp=sharing.](https://drive.google.com/file/d/1JnKBTnWAIGv9y4J6E68GK28eneY-shPC/view?usp=sharing)

[Back to the Table Of Contents](#)

3 SDK Initialization

This SDK Integration will be done for the Micro-ATM Transaction (Card Based).

3.1 Step 1: Change the build.gradle (: app) file by doing the following changes

```
android {
    compileSdk 32
    defaultConfig {
        applicationId "com.example.yourapplicationpackage"
        minSdk 21 //should be 21 or higher
        targetSdk 32
        versionCode 1
        versionName "1.0"
        testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"
    }
    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'),
            'proguard-rules.pro'
        }
    }
    compileOptions {
        sourceCompatibility JavaVersion.VERSION_1_8
        targetCompatibility JavaVersion.VERSION_1_8
    }
}
```

3.2 Step 2: Adding Dependencies

```
dependencies {
    implementation 'androidx.appcompat:appcompat:1.4.2'
    implementation 'com.google.android.material:material:1.6.1'
    implementation 'androidx.constraintlayout:constraintlayout:2.1.4'
    testImplementation 'junit:junit:4.13.2'
    androidTestImplementation 'androidx.test.ext:junit:1.1.3'
    androidTestImplementation 'androidx.test.espresso:espresso-core:3.4.0'
    implementation 'com.gitlab.isu_service:commonadminsdui:matm_sdui_stag_0.0.6'//Our sdk dependency
    implementation 'com.google.code.gson:gson:2.8.7'
    implementation 'com.gitlab.aeps_sdk:aeps-sdk:theme_0.0.3'
    implementation "io.insert-koin:koin-android:3.3.0"
    implementation "io.insert-koin:koin-androidx-navigation:3.3.0"
    implementation "io.insert-koin:koin-androidx-compose:3.3.0"
}
```

NOTE:

This dependency supports both integrated and smart devices. This document is relevant for users of both the devices.

3.3 Step 3: Add this to the settings.gradle (Project Settings)

```
dependencyResolutionManagement {  
    repositoriesMode.set(RepositoriesMode.FAIL_ON_PROJECT_REPOS)  
    repositories {  
        google()  
        jcenter()  
        mavenCentral()  
        maven { url 'https://jitpack.io' }  
    }  
}
```

3.4 Step 4: Add this in the gradle.properties (Project Properties)

```
android.enableJetifier=true
```

3.5 Step 5: Add the following permissions in the manifest file

```
<uses-permission android:name="android.permission.INTERNET" />  
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />  
<uses-permission android:name="android.permission.BLUETOOTH" />  
<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>  
<uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION" />
```

3.6 Step 6: Manifest Queries entry

```
<queries>  
<package android:name="com.matm.staging" />  
</queries>
```

[Back to the Table Of Contents](#)

4 Calling the SDK, parameters required and design data model class

4.1 Step 1: How to call the SDK

```
Intent intent = new Intent(getApplicationContext(), MatmActivity.class);
Gson gson = new Gson();
String getdata = gson.toJson(dataModel);
intent.putExtra("data", getdata);
startActivity(intent);
```

4.2 Code snippet add into custom application class.

```
KoinApplication koin = KoinAndroidApplication
    .create(this)
    .modules(MatmModuleKt.getMatmModule());
startKoin(koin);
```

Notes :

- The **Login Id, ApiUserName, ClientID and ClientSecret** will be provided by iServeU which contains the user id and password details, please check the below example of the **ClientID** and **ClientSecret**.
- **skipReceipt** field default value is false. If user wants to customize the transaction status page then the value should be true.
- Please ensure the **Client ID** and **Client Secret** keys are not to be stored locally within the application. The same is only to be stored on the server side.
- Client Transaction ID (**ClientRefID**) max length should be 18 digits and data type to be set as string.

Example:

Client ID - rCpEbvdFaFiXEEty7p3mHGblgUhDMx4AyjIJyAnXwlf7aTU
Client Secret - 8mTAhRc9ArenFFh5x4CKrEzsr26ASCgxxG2pjKEvRL28A6LVsesfAEr69nAb5OaK

For MOREFUN users, the device type should be

```
dataModel.setDevice_name = "morefun"
```

For PAX users, the device type should be

```
dataModel.setDevice_name = "pax"
```

For PAX A910 users, the device type should be

```
dataModel.setDevice_name = "A910"
```

For WISEASY users, the device type should be

```
dataModel.setDevice_name = "Wiseasy"
```

Sample App View

The image shows a mobile application interface for initiating a transaction. The screen is framed by a blue border. At the top, there is a status bar with the time 12:23 and icons for notifications, alarm, Wi-Fi, cellular signal, and battery. The main content area contains three sections, each highlighted with a purple border and a blue number:

- 1** Select Device: A section with two radio button options: ☒ Pax and ☐ MoreFun.
- 2** Select Transaction Type: A section with two radio button options: ☒ Cash Withdrawal and ☐ Balance Enquiry.
- 3** Enter Amount: and Enter Mobile Number: A section containing two text input fields. The first field is labeled "Enter Amount:" and the second is labeled "Enter Mobile Number:". Below these fields is a red button labeled "Initiate Transaction".

At the bottom of the screen, there is a navigation bar with three icons: a back arrow, a circle, and a square.

1. Select the appropriate **service device** that is to be used (PAX or MoreFun).
2. Then the **Transaction Type** is being selected (Cash Withdrawal or Balance Enquiry).
3. Fill in the required details (Here these details are required for Cash Withdrawal).

And finally, click on the **Initiate Transaction** button to proceed with the transaction.

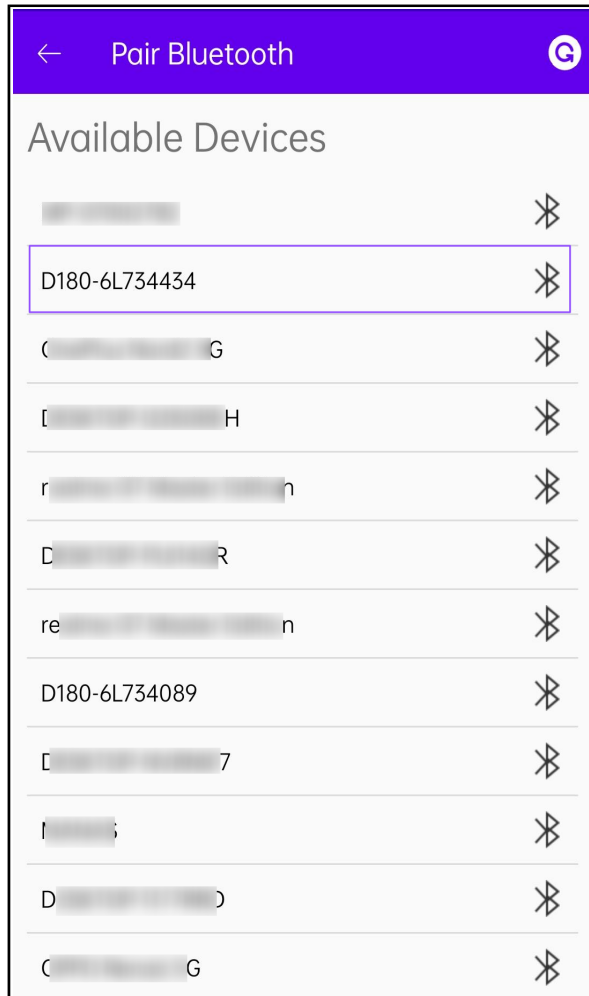
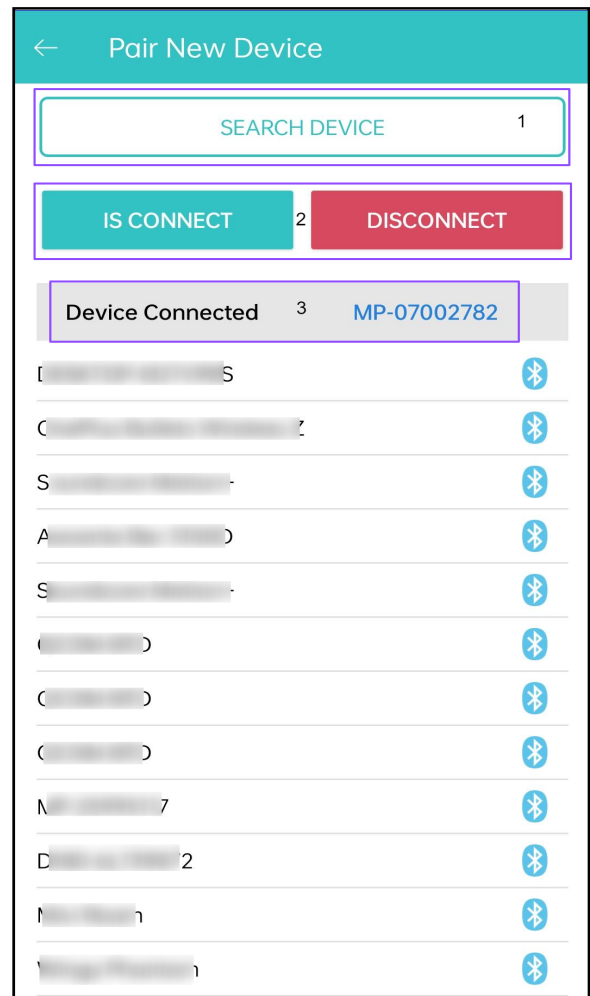
Sample App View*Image 1**Image 2*

Image 1 (for PAX devices) - The available devices will be displayed that can be connected via Bluetooth. The Device IDs are displayed (as highlighted in the image) and clicking on it will get them connected and ready for transaction.

Image 2 (For MoreFun devices) –

1. Search a new device to connect using the search bar.
2. Click on the Is Connect button to connect the device and click the Disconnect button to get disconnected from the connected device.
3. Displays the connected device.

4.2 Step 2: Required Parameters to be send to the SDK

Name	Parameter name	Description	Valid Values (Type) and Validation	Mandatory /Optional
Transaction Amount	transaction Amount	Transaction amount for cash withdrawal	Numeric. A minimum of 100 and a maximum of 10000.	Mandatory
Transaction Type	transaction Type	Type of transaction to be performed.	String	Mandatory
Shop Name	shop_name	To be used as per client requirement	Alphanumeric String	Optional
Brand Name	brand_name	To be used as per client requirement.	Alphanumeric String	Optional
Application Type	application Type	Application Category	String	Mandatory
Param B	paramB	To be used as per client requirement	Alphanumeric String. Maximum length is 20.	Optional
Param C	paramC	To be used as per client requirement	Alphanumeric String. Maximum length is 20.	Optional
Device Type	device_type	Terminal brand name	String	Mandatory
Device name	device_name	Terminal model number	String	Optional
API User Name	apiUserName	API User's Name	String	Mandatory

Client Reference ID	ClientRefID	Reference ID of client.	Alphanumeric String. Maximum length is 18.	Mandatory
Client ID	clientID	Will be shared by iServeU	Alphanumeric String	Mandatory
Client Secret	clientSecret	Will be shared by iServeU	Alphanumeric String	Mandatory
Login ID	loginID	User application login ID or username	Alphanumeric String	Mandatory
Skip Receipt	skipReceipt	If client wants to skip the receipt downloading part	Boolean. Default value is false . Set true to skip receipt download	Mandatory
Theme Color	themeColor	Lets the client select its own theme	ThemeColor	Mandatory

4.3 Step 3: Data Model Class

```

public class DataModel {
    String transactionAmount;
    String transactionType;
    String shop_name;
    String brand_name;
    String applicationType;
    String paramB;
    String paramC;
    String device_type;
    String device_name;
    String apiUserName;
    String user_mobile_number;
    private String userName;
    private String clientRefID;
    private String clientID;
    private String clientSecret;
    String loginID;
    Boolean skipReceipt;
    ThemeColor themeColor;
    public ThemeColor getThemeColor() {
        return themeColor;
    }
    public void setThemeColor(ThemeColor themeColor){
        this.themeColor = themeColor;
    }
    public String getApiUserName() {
        return apiUserName;
    }
}

```

```

public void setApiUserName(String apiUserName) {
    this.apiUserName = apiUserName;
}
public String getClientRefID() {
    return clientRefID;
}
public void setClientRefID(String clientRefID) {
    this.clientRefID = clientRefID;
}
public String getClientID() {
    return clientID;
}
public void setClientID(String clientID) {
    this.clientID = clientID;
}
public String getClientSecret() {
    return clientSecret;
}
public void setClientSecret(String clientSecret) {
    this.clientSecret = clientSecret;
}
public Boolean getSkipReceipt() {
    return skipReceipt;
}
public void setSkipReceipt(Boolean skipReceipt) {
    this.skipReceipt = skipReceipt;
}
public String getTransactionAmount() {
    return transactionAmount;
}
public void setTransactionAmount(String transactionAmount) {
    this.transactionAmount = transactionAmount;
}
public String getTransactionType() {
    return transactionType;
}
public void setTransactionType(String transactionType) {
    this.transactionType = transactionType;
}
public String getShop_name() {
    return shop_name;
}
public void setShop_name(String shop_name) {
    this.shop_name = shop_name;
}
public String getBrand_name() {
    return brand_name;
}
public void setBrand_name(String brand_name) {
    this.brand_name = brand_name;
}
public String getApplicationType() {
    return applicationType;
}
public void setApplicationType(String applicationType) {
    this.applicationType = applicationType;
}
}

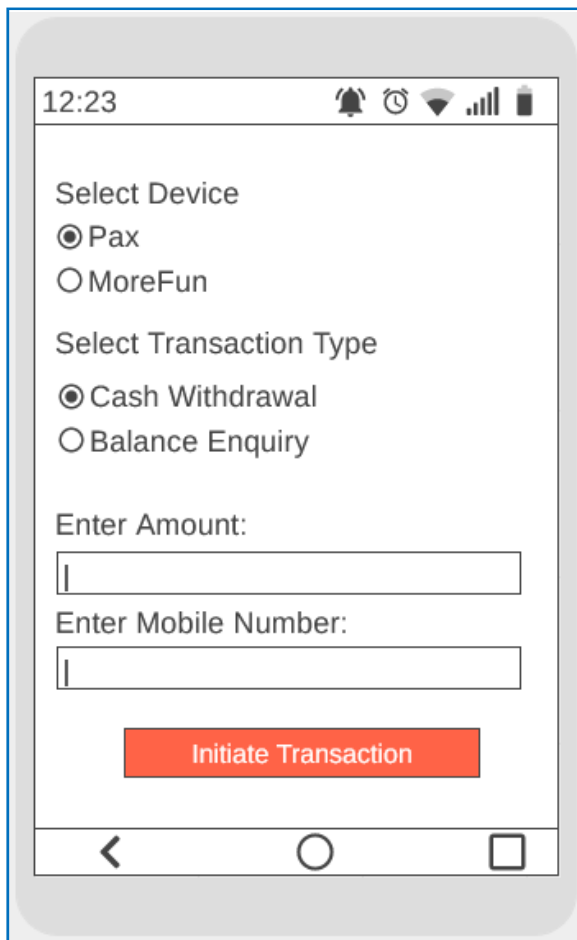
```

```

public String getUsername() {
    return userName;
}
public void setUsername(String userName) {
    this.userName = userName;
}
public String getUser_mobile_number() {
    return user_mobile_number;
}
public void setUser_mobile_number(String user_mobile_number) {
    this.user_mobile_number = user_mobile_number;
}
public String getParamB() {
    return paramB;
}
public void setParamB(String paramB) {
    this.paramB = paramB;
}
public String getParamC() {
    return paramC;
}
public void setParamC(String paramC) {
    this.paramC = paramC;
}
public String getDevice_type() {
    return device_type;
}
public void setDevice_type(String device_type) {
    this.device_type = device_type;
}
public String getDevice_name() {
    return device_name;
}
public void setDevice_name(String device_name) {
    this.device_name = device_name;
}
public String getLoginID() {
    return loginID;
}
public void setLoginID(String loginID) {
    this.loginID = loginID;
}
}

```

4.4 Step 4: Sample Code for passing data through the data model

Sample App View**Cash Withdrawal**


12:23

Select Device

☒ Pax

☐ MoreFun

Select Transaction Type

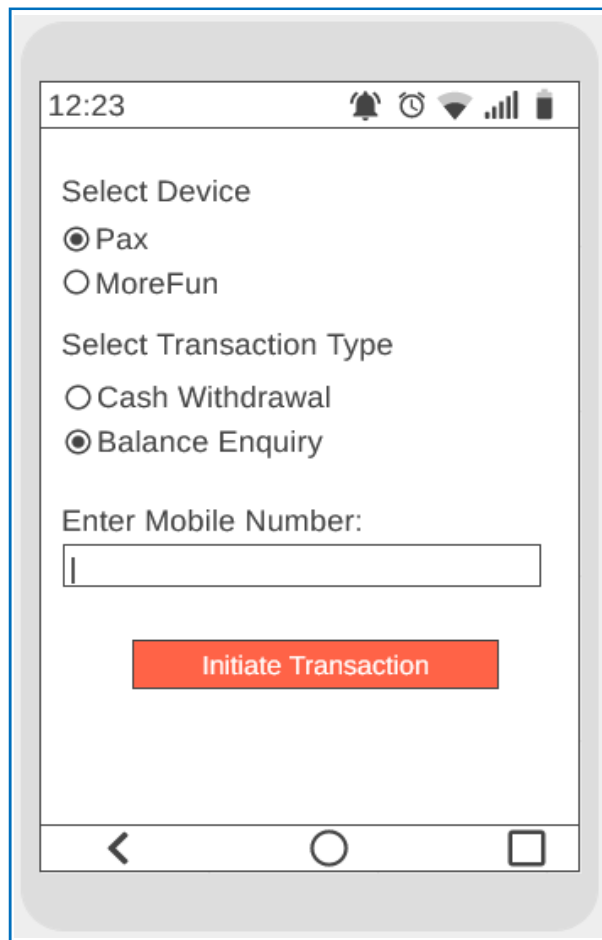
☒ Cash Withdrawal

☐ Balance Enquiry

Enter Amount:

Enter Mobile Number:

Initiate Transaction

Balance Enquiry


12:23

Select Device

☒ Pax

☐ MoreFun

Select Transaction Type

☐ Cash Withdrawal

☒ Balance Enquiry

Enter Mobile Number:

Initiate Transaction

Note :

For Cash Withdrawal the Amount (Should be greater than equal to 100 and less than equal to 10000) and the Mobile Number have to be filled in to proceed with the transaction.

Please refer to the sample code below.

```
private void callMATMSDKApp() {
    if (skipReceiptCB.isChecked()) {
        isSkip = true;
    } else {
        isSkip = false;
    }
    DataModel dataModel = new DataModel();
    if (rbBalanceEnquiry.isChecked()) {
        dataModel.setTransactionType("0");
        dataModel.setTransactionAmount("0");
    } else if (rbCashWithdrawal.isChecked()) {
        dataModel.setTransactionType("1");
        dataModel.setTransactionAmount(etAmount.getText().toString().trim());
    }
    ThemeColor themeColor = new ThemeColor();
}
```

```

themeColor.setButtonBgColor("#000000");
themeColor.setButtonTextColor("#FFFFFF");
DataModel dataModel = new DataModel();
dataModel.setThemeColor(themeColor);
    dataModel.setApplicationType("");
    dataModel.setDevice_type("pax");
    dataModel.setUserName("aepsTestR");
    dataModel.setLoginID("aepsTestR"); //Sdk user
    dataModel.setClientID("rCpEbvdFaFiXEEty7p3mHGblgUhDMx4AyjIJyAnXwlf7aTU"); //Client ID
    dataModel.setClientSecret("8mTAhRc9ArenFFh5x4CKrEzsr26ASCgxxG2pjEvRL28A6LVsesfAEr69nAb5
OaK"); //Client Secret key
    dataModel.setApiUserName("isutest");
    dataModel.setShop_name("itpl");
    dataModel.setBrand_name("iServeU");
    dataModel.setDevice_name("paxd180");
    dataModel.setClientRefID(et_clientRef.getText().toString());
    dataModel.setParamB("branch1");
    dataModel.setParamC("loanID1234");
    dataModel.setUser_mobile_number("8949494949");
    dataModel.setSkipReceipt(isSkip);
    MatmSdkConstants.Companion.setMATMOnFinishListener(this);
    Intent intent = new Intent(MainActivity.this, MatmActivity.class);
    Gson gson = new Gson();
    String getdata = gson.toJson(dataModel);
    intent.putExtra("data", getdata);
    startActivity(intent);
}

```

4.5 Step 5: Code Snippet for Callback Response (Optional for User)

OnFinishListener is a callback created to update the client app after Receipt Page (Success/Failure). It has a method called onSDKFinish() which will have mostly four parameters (status Txt, ClientRefID, statusDesc and a jsonObject). When the client app turns on the OnFinishListener by making SDKConstants to **true** (SDKConstants.onFinishListener = true), the SDK will initiate the callback through onSDKFinish after finishing the Receipt page.

Notes :

- User can check the Status & ClientRefID value using this Callback Method.

Java :

```
MatmSdkConstants.Companion.setMATMOnFinishListener(this);
```

Kotlin :

```
MatmSdkConstants.MATMOnFinishListener = this
```

- Implements MATMOnFinishListener in the Activity where this below method will override.

```

@Override
public void onSDKFinish(String statusTxt, String ClientRefID,
String statusDesc,
JSONObject jsonObject) {
    Toast.makeText(MainActivity.this,

```

```

statusTxt + ClientRefID + statusDesc + jsonObject,
Toast.LENGTH_SHORT).show();
Log.d("transactionData",
jsonObject.toString()); // Please refer below for further details.
}

```

4.6 Required Keys to get the transaction data from the Callback

Key name	Name	Description
FLAG	flag	Status of the Transaction
TRANSACTION_TYPE	Transaction Type	Type of transaction performed. “1” signifies a cash withdrawal “0” signifies a balance enquiry
TRANSACTION_ID	Transaction ID	Transaction ID
RRN_NO	Rrn no	12 digit RRN Number
RESPONSE_CODE	Response code	To be used by the client as per requirement
AMOUNT	Amount	Amount being transacted.
MID	MID	Merchant Identification Number
TID	TID	Terminal Identification Number
TXN_ID	Txn ID	Transaction ID
INVOICE	Invoice	Invoice number for the transaction
CARD_TYPE	Card type	Type of card used in transaction.
APPR_CODE	Appr code	Approval Code
CARD_NUMBER	Card number	Card Number used in the Transaction

CARD_HOLDERNAME	Card holder name	Name of the card holder.
SHOP_NAME	Shop Name	Name of the Shop
BRAND_NAME	Brand Name	Name of the Brand

4.7 An example of a successful transaction

```
{
  "FLAG": "success",
  "TRANSACTION_ID": "1023948334970183680",
  "TRANSACTION_TYPE": "0",
  "RRN_NO": "226918141134",
  "RESPONSE_CODE": "0000",
  "AMOUNT": "369.70", //If balance is in -ve then amount will be -369.70
  "MID": "IS0999999995469",
  "TID": "07002782",
  "TXN_ID": "1234567",
  "INVOICE": "1111111",
  "CARD_TYPE": "visa",
  "APPR_CODE": "123456",
  "CARD_NUMBER": "xxxx-xxxx-xxxx-9167",
  "CARD_HOLDERNAME": "",
  "BRAND_NAME": "IndiaPost",
  "SHOP_NAME": "Testing"
}
```

[Back to the Table Of Contents](#)

5 Transaction Status Enquiry API

Description - This API will fetch the transaction details according to the provided request mentioned below.

Request Method: POST

URL: <https://apidev.iserveu.online/staging/statuscheckv2/txnreportv2>

5.1 Header

Content-Type : application/json

client_id : EMI8PIj5Esi7T5Q4LVH5X5LHe5uNwqlp0BKdL3sCl8WHIAAb

client_secret : Q4jAlwLuSUcNNE87D2W3b8PQHv25aKxiYrotlXcxcyX6AOx8BdcLprJCqFGHGVXG

5.2 Request Body Parameters

Param eter	Paramet er name	Parameter description with validation and examples	Data type	Mandatory/ Optional
\$1	Query Operation	Hard-coded field. Must pass the value provided below- "UMatm_txn_status_api_common"	String	Mandatory
\$4	Start Date	Date field in yyyy-mm-dd format pass in string. It should be same as the End date . E.g. - "2023-07-10"	String	Mandatory
\$5	End Date	Date field in yyyy-mm-dd format pass in string. It should be same as the Start Date . E.g. - "2023-07-10"	String	Mandatory
\$6	ClientRef ID	Client reference id. length ≤ 20 . E.g.- "ORTN00001120230710154525005"	String	Mandatory
\$7	Param_b	Param B. To be used by the client as per requirement, length ≤ 20 . E.g. - "branch1"	String	Optional
\$8	Param_c	Param C. To be used by the client as per requirement, length ≤ 20 . E.g.- "loanID1234"	String	Optional

5.3 Sample Request Body

```
{
  "$1": "UMatm_txn_status_api_common",
  "$4": "2023-07-10",
  "$5": "2023-07-10",
  "$6": "ORTN00001120230710154525005"
}
```

5.4 Response Body Parameters

Parameter	Parameter description with examples	Data type
status	Transaction status code. E.g - 200	Integer
message	Corresponding message of the status. E.g. - Success	String
length	Number of records displayed. E.g - 1	Integer
results	Displays the transaction record.	
statusDesc	Status description of the transaction. E.g. - "Suspected Fraud Decline"	String
createdDate	Created is send in timestamp. E.g. - 1688984141950	Timestamp
updatedDate	Updated is send in timestamp. E.g. - 1688984145754	Timestamp
productCode	Product Code . E.g. - "mATM"	String
txnType	Operation type of transaction. E.g. - "mATM_CASH_WITHDRAWAL"	String
txnAmount	Transaction amount. E.g. - 100	String
txnDateTime	Date and time of transaction. E.g. - 1688984141950	String

customeridentification	Card number. E.g. - "xxxx-xxxx-xxxx-0818"	String
status	Status of the transaction. E.g. - "AUTH_DECLINE"	String
transaction_status_code	Transaction Status Code. E.g. - 3	String
rrn	RRN Number. E.g. - "319115329358"	String
txnId	Unique id of the transaction. E.g. - "#1127905981926219776"	String
retailerUserName	Retailer's user name. E.g. - "ORTN000011"	String
username	User Name. E.g. - "oasysapi"	String
clientreferenceid	Reference id the client. E.g. - "ORTN00001120230710154525005"	String
param_b	To be used as per client. E.g.- "branch1"	Alphanumeric String
param_c	To be used as per client. E.g.- "loanID1234"	Alphanumeric String

5.5 Sample Response body

5.5.1 Success

```
{
  "status": 200,
  "message": "Success",
  "length": 1,
  "results": [
    {
      "statusDesc": "Suspected Fraud Decline",
      "createdDate": 1688984141950,
      "updatedAt": 1688984145754,
      "productCode": "mATM",
      "txnType": "mATM_CASH_WITHDRAWAL",
      "txnAmount": 100,
      "txnDateTime": 1688984141950,
      "customeridentification": "xxxx-xxxx-xxxx-0818",
      "status": "AUTH_DECLINE",
      "transaction_status_code": 3,
      "rrn": "319115329358",
      "txnId": "#1127905981926219776",
      "retailerUserName": "ORTN000011",
      "userName": "oasysapi",
      "clientreferenceid": "ORTN00001120230710154525005",
      "param_b": null,
      "param_c": null
    }
  ]
}
```

```

    }
  ]
}

```

5.5.2 Success (with no data)

```

{
  "status": 1,
  "message": "Transaction response with no data for required parameters",
  "length": 0,
  "results": []
}

```

5.5.3 Failed

Note:

The following is a BigQuery error for any type mismatch or misleading data. For this issue please contact our developers for resolution.

```

{
  "status": 0,
  "message": "Query error: Unrecognized name: undefined at [12:29]"
}

```

5.5.4 Failed (Wrong First Parameter)

```

{
  "status": 0
  "message": "First parameter is Wrong. Kindly provide the correct one",
}

```

5.6 Status Codes

Code	Significance	Description
0	FAILED	Get error message in Response.
200	SUCCESS	Transaction response received with data.
1	SUCCESS	Transaction response with no data for required parameters

Note:

The date and time stamp present across all endpoints in the document is in UTC timestamp format.

[Back to the Table Of Contents](#)

6 Agent Registration (Single)

Description -This signifies the process of registering (onboarding) the Agent.

- **SUCCESS** signifies that the agent registration is successful.
- **FAILURE** indicates that the Agent was not registered.

Request Method :: POST

URL:: <https://apidev.iserveu.online/sandbox/apiAgentOnboarding/externalonboard>

6.1 Headers

Content-Type : application/json

client_id : AdOZaGcsQqq38Dk5RA4VU1sMbxTeYXtAEPbcobapuu9MhGij

client_secret : VDJMKviTuHO12VAd5e4d7X6nZltrFkWsBlXxPhs2iN5Rmv66JG3KhfMQzGMDRycD

6.2 Request Body Parameters

Parameter	Parameter description with validation and examples	Data Type	Mandatory/Optional
bcagentid	BC Agent ID (5 ≤ length ≤ 100). E.g. - "80345678458"	String	Mandatory
bcagentname	BC Agent First Name (3 ≤ length ≤ 49). E.g. - "dhwani"	String	Mandatory
lastname	Last Name of the BC Agent (1 ≤ length ≤ 49). E.g. - "d"	String	Mandatory
companyname	Company Name (3 ≤ length ≤ 199). E.g.- "iserveu"	String	Mandatory
address	Address of Company (5 ≤ length ≤ 200). E.g.- "Bhubaneswar"	String	Mandatory

Parameter	Parameter description with validation and examples	Data Type	Mandatory/Optional
area	Area of Company (5 ≤ length ≤ 30). E.g. - "bhubaneswar"	String	Mandatory
pincode	Pin Code. It should contain 6 digits. E.g. - 752107.	Integer	Mandatory
mobilenumber	Mobile Number of Company. Mobile no. should be of 10 digits. E.g.- "5209295531"	String	Mandatory
shopname	Name of the Shop (3 ≤ length ≤ 100). E.g. - "abc"	String	Mandatory
shopaddress	Shop Address (5 ≤ length ≤ 200). E.g.- "bhubaneswar"	String	Mandatory
shopstate	State where Shop is (5 ≤ length ≤ 50). E.g. - "Odisha"	String	Mandatory
shopcity	City where Shop is (5 ≤ length ≤ 50). E.g. - "bhubaneswar"	String	Mandatory
shopdistrict	District where Shop is (5 ≤ length ≤ 50). E.g. - "Khorda"	String	Mandatory
shoparea	Area where Shop is (5 ≤ length ≤ 30). E.g. - "bhubaneswar"	String	Optional
shoppincode	Pin code of shop area. It should contain 6 digits. E.g. - "751024"	Integer	Optional
pancard	Pancard number. It should have a length of 10 . E.g. - "FMIPK9104K"	String	Mandatory

6.3 Sample Request Body

```
{
  "bcagentid": "80345678458",
  "bcagentname": "dhwani",
  "lastname": "d",
  "companyname": "iserveu",
```

```

"address": "Bhubaneswar",
"area": "bhubaneswar",
"pincode": 752107,
"mobilenumber": "5209295531",
"shopname": "abc",
"shopaddress": "bhubaneswar",
"shopstate": "Odisha",
"shopcity": "bhubaneswar",
"shopdistrict": "Khorda",
"shoparea": "bhubaneswar",
"shoppincode": "751024",
"pancard": "FMIPK9104K"
}

```

Note:

Data provided in the above **Request Body** is strictly for visualization purpose only. Please supply your own data to test the API, as this is a one time process and using the same data will generate a **Failed** response.

6.4 Response Body Parameters

Parameter	Parameter description with examples	Data type
status	Transaction status. E.g. - SUCCESS	String
statusCode	Transaction status code. E.g - 200	Integer
statusDesc	Corresponding message of the status. E.g. - User created successfully	String
data	The details within it (status, bcagentid and description) are coming from the Bank's side	

6.5 Sample Response Body

6.5.1 Success

6.5.1.1 User Created

```
{
  "status": "SUCCESS",
  "statusCode": 0,
  "statusDesc": "User created successfully",
  "Data": {
    "bcagentregistrationres": {
      "status": "1",
      "bcagentid": "80345678458",
      "description": "SUCCESSFULLY UPDATED"
    }
  }
}
```

6.5.2 Failed

6.5.2.1 Duplicate BC Agent ID

Note :

If an Agent has been already onboarded in NSDL but we are still supplying the onboarded agent's bcagentid again then the following error will be displayed.

```
{
  "status": "FAILED",
  "statusCode": 1,
  "statusDesc": "Duplicate user",
  "Data": {}
}
```

6.5.2.2 Missing BC Agent ID

```
{
  "status": "FAILED",
  "statusCode": 1,
  "statusDesc": "Bcagentid can not be empty,invalid bcagentid",
  "Data": {
    "bcagentregistrationres": {
      "status": "",

```

```
"bcagentid": "",  
"description": ""  
}  
}  
}
```

6.6 Status Codes

Code	Significance	Description
0	SUCCESS	Agent registration successful.
1	FAILED	Agent registration unsuccessful.

[Back to the Table Of Contents](#)

7 Webhook API

Description - Your organization will provide us a Call-back URL with the following configurations-

- The Call-back URL should be of Method Type POST
- Content-type should be of Type application/JSON
- The Call-back URL should have the request and response formats as provided for your reference.

Request Method: POST

URL: To be shared by your organization.

7.1 Request Body Parameters

Parameter	Parameter description with validation and examples	Data Type	Mandatory/ Optional
statusDesc	Status Description. E.g. - "Transaction Successful."	String	Mandatory
createdDate	Created Date. E.g. - "2023-06-28 11:00:09"	String	Mandatory
updatedAt	Date of Update. E.g. - "2023-06-28 11:00:15"	String	Mandatory
productCode	Product Code. E.g. - "mATM"	String	Mandatory
txnType	Transaction Type. E.g.-"mATM_CASH_WITHDRAWAL"	String	Mandatory
txnAmount	Transaction Amount. Should be 100 ≤ length ≤ 10000 . E.g. - "3030"	String	Mandatory
txnDateTime	Transaction Date and Time.	String	Optional
customeridentification	Customer Identification (Card Number). 16 digit card number. E.g. - "xxxx-xxxx-xxxx-7081"	String	Mandatory
status	Status of Transaction. E.g.- "AUTH_SUCCESS"	String	Mandatory

Parameter	Parameter description with validation and examples	Data Type	Mandatory/ Optional
rrn	rrn number. Generated from bank's end. length = 12 . E.g. - "317910127687"	String	Mandatory
txnId	Transaction ID (length ≤ 20) E.g. - "1123485469116473344"	Integer	Mandatory
username	User Name. E.g. - "2128317875137120"	String	Mandatory
ClientRefID	Client Reference ID (length ≤ 20) E.g. - 20720	String	Mandatory
param_b	To be used as per discretion (length ≤ 20)	Alphanumeric String	Optional
Param_c	To be used as per discretion (length ≤ 20)	Alphanumeric String	Optional
device_serial_no	Serial Number of the device used for transaction. E.g. - "6L764548"	String	Mandatory (for Auth Success) and Optional (for Auth Declined)
mobile_number	Mobile Number. E.g. - "9337836751"	String	Mandatory (for Auth Success) and Optional (for Auth Declined)
balance_amount	Balance Amount. E.g. - "1,831.30"	String	Mandatory (for Auth Success) and Optional (for Auth Declined)

7.2 Sample Request Body

7.2.1 mATM Cash Withdrawal

```
{
  "statusDesc": "Transaction Successful.",
  "createdDate": "2023-06-28 11:00:09",
  "updatedDate": "2023-06-28 11:00:15",
  "productCode": "mATM",
  "txnType": "mATM_CASH_WITHDRAWAL",
```

```

"txnAmount": "3030",
"txnDateTime": "",
"customeridentification": "xxxx-xxxx-xxxx-7081",
"status": "AUTH_SUCCESS",
"rrn": "317910127687",
"txnId": "1123485469116473344",
"username": "2128317875137120",
"clientRefID": "SRL20230628105910920",
"param_b": "",
"param_c": "",
"device_serial_no": "6L764548",
"mobile_number": "9337836751",
"balance_amount": "1,831.30"
}

```

7.2.2 mATM Balance Enquiry (Auth Success)

```

{
  "statusDesc": "Transaction Successful.",
  "createdDate": "2023-06-28 12:00:09",
  "updatedDate": "2023-06-28 12:00:15",
  "productCode": "mATM",
  "txnType": "mATM_BALANCE_ENQUIRY",
  "txnAmount": "0",
  "txnDateTime": "",
  "customeridentification": "xxxx-xxxx-xxxx-7081",
  "status": "AUTH_SUCCESS",
  "rrn": "317910127687",
  "txnId": "1123485469116473355",
  "username": "2128317875137120",
  "clientRefID": "SRL20230628105910922",
  "param_b": "",
  "param_c": "",
  "device_serial_no": "6L764548",
  "mobile_number": "9337836751",
  "balance_amount": "1,831.30"
}

```

7.2.3 mATM Balance Enquiry (Auth Declined)

```

{
  "statusDesc": "Invalid Card Number",
  "createdDate": "2023-01-24 11:17:09",
  "updatedDate": "2023-01-24 11:17:10",
  "productCode": "mATM",
  "txnType": "mATM_BALANCE_ENQUIRY",
  "txnAmount": "0",
  "txnDateTime": "",
  "customeridentification": "xxxx-xxxx-xxxx-8048",
}

```

```

"status": "AUTH_DECLINE",
"rrn": "302411073224",
"txnId": "1067319628444737538",
"username": "551713460013",
"ClientRefID": "2301241116175512",
"param_b": "551713460013",
"param_c": "551713460013",
"device_serial_no": "",
"mobile_number": "",
"balance_amount": ""
}

```

7.3 Response Body Parameters

Parameter	Parameter description with examples	Data type
status	Transaction status code (0 for Success and 1 for Failure)	String
statusDesc	Corresponding message of the status (Success or Failure)	String

7.4 Sample Response Body

7.4.1 Success

```

{
  "status": 0,
  "statusDesc": "success"
}

```

7.4.2 Failure

```

{
  "status": 1,
  "statusDesc": "Failure"
}

```

7.5 Status Codes

Code	Significance	Description
0	SUCCESS	Successful.
1	FAILURE	Unsuccessful.

Note :

In case of a successful response it won't be retried any more and in case of a failed response it will be retried for 2 times.

[Back to the Table Of Contents](#)

8 Re-Initiate Webhook API

Description -When we hit this URL, all the failed webhook transactions will be resend synchronously.

Request Method: POST

URL:: <https://apidev.iserveu.online/staging/wm/reinitiate>

8.1 Headers

Content-Type : application/json

client_id : EMI8PIj5Esi7T5Q4LVH5X5LHe5uNwqlp0BKdL3sCl8WHIAAb

client_secret : Q4jAlwLuSUcNNE87D2W3b8PQHv25aKxiYrotlXcxcyX6AOx8BdcLprJCqFGHGVXG

8.2 Response Body Parameters

Parameter	Parameter description with examples	Data type
status	Transaction status code (0 for Success and 1 for Failure)	String
message	Corresponding message for the status. E.g. - "reintiate not able to process"	String
errorMessage (exclusive for Failed Responses)	Message describing the Error. E.g. - "error in publish"	String

8.3 Sample Response Body

8.3.1 Success

```
{
  "status": 0,
  "message": "successfully initiated all failed callback transaction data"
}
```

8.3.2 Failed

```
{  
  "status" : 1 ,  
  "message" : "reintiate not able to process",  
  "errorMessage" : "error in publish"  
}
```

8.4 Status Codes

Code	Significance	Description
0	SUCCESS	Successful initiated.
1	FAILED	Unsuccessful.

[Back to the Table Of Contents](#)

9 HTTP Error-codes and Description

4XX - Error occurred in the client's part
5XX - Error occurred in the server's part

Error Code	Description
400	Bad Request
401	Authentication Failure
403	Forbidden
404	Entity does not exist
405	Method does not exist
409	Resource conflict. Resource might already exist
412	Precondition failed.
413	Request Entity too large to be processed
422	Input not in an expected format
429	Too many error requests
500	Internal Server Error
503	Service Unavailable
520	Unknown error

THANK YOU

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[Back to the Table Of Contents](#)