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VTC MOBILE - Integration Guide for Mobile Apps   
Authorization functions

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# Overview

## Document purpose

This document describe how to integrate new Mobile Application to VTC Mobile payment gateway and transaction processing flow which provided by MobiIDAPI. Based on this, partner can do cost analysis, what type of transaction supported. Below are standard functions will be implement:

* Authorization

## Scope of use

Documents provided to partners to develop applications and services can use to login account and debit clients through MobiID API.

## Basic Abstract Flow



* Client: Applications need access to the system account and payment VTC Mobile (Mobi ID)
* AuthorizationServer: Server to authenticate the account, account database connection to check customer ID, password.
* Resource Server : Server contains the resource requires authentication to use
* Token :The key to the functional use of the resource server. (Eg functionalities payment, debit account, update account information)

## Scenario details



1. Client App open InApp-Browserto start authentication
2. User login to your account and accept the Authorization server access
3. Native App checkurl returned by the Authorization Server, close the window, return control of Evidence provides simultaneous application authentication code (authorization code)
4. The application sends authentication code for Token EndPoint
5. Token EndPoint returned to the application access token
6. The application uses the access token to access the Payment API

# 2.Authorization

## 2.1Concrete Flow



## 2.2 Server-App functions

Partner Server Games will be implement4 functions:

* login
* authorization
* accesstoken
* logout

### 2.2.1 login

* Build login webpage
  + Example: http://partner-server-app/login
* Client-App initiates authorization request Authorization, client opens a InApp-Browser and sends user to the Login Webpage , after the user login is complete, the system returns the authorization code to the redirect\_uriinquery string.
* Detail:
  + Method : URL redirection
  + Parameters definition:
    - client\_id : the unique Client-Id assigned to App by MobiID
    - redirect\_uri : Authorization URL (See 2.2.2)
    - agencyid: content provider
    - imei: device imei
  + URL Template
    - Link sandbox : http://sandbox.graph.vtcmobile.vn/oauth/authorize?client\_id={client\_id}&redirect\_uri={authorizationurl }&agencyid={content provider} &imei={device imei}
    - Link live http://graph.vtcmobile.vn/oauth/authorize?client\_id={client\_id}&redirect\_uri={authorizationurl}&agencyid={content provider}&imei={device imei}

### 2.2.2 authorization

* Build authorization webpage
  + Example: http://partner-server-app/authorization
* Server-App returns control to the app via HTTP Browserredirection and includes an authorization. Client-App registering a custom URI schemeand getauthorization code from InApp Web Browser URL.
* Detail:
  + Method : URL redirection
  + Parameters definition:
    - authorization code: Authorization code
  + URL Template
    - VD : http://partner-server-app/authorization?code= {authorization code}

### 2.2.3 accesstoken

* Build accesstokenwebpage
  + Example: http://partner-server-app/accesstoken
* redirect user to Server App includes an authorization code
* Detail:
  + Method: POST
  + Parameters definition
    - client\_id : the unique Client-Id assigned to App by MobiID
    - code : authorization code
    - client\_secret : Secret code assigned by Server-App
    - agencyid: content provider
    - redirect\_uri :The URL that is displayed to the InApp browser when the Graph API sends the access token.
  + URL Template
    - Link sandbox :

http://sandbox.graph.vtcmobile.vn/oauth/access\_token?

client\_id={client\_id}

&code={code}

&client\_secret={client\_secret}

&agencyid={content provider}

&redirect\_uri={url}

* + - Link live

<http://graph.vtcmobile.vn/oauth/access_token>?

client\_id={client\_id}

&code={code}

&client\_secret={client\_secret}

&agencyid={content provider}

&redirect\_uri={url}

* + Output
    - Format : JSON
    - Template

|  |
| --- |
| {  "IsAuthen":true, false. Login status  "AccessToken":Access Token,  "AccountId": unique Account ID assigned by MobiID  "AccountName":"unique Account Name"  } |

### 2.2.4 logout

* Build accesstoken webpage
  + VD: http://partner-server-app/logout
* Redirect user to Server App includes client\_id
* Detail:
  + Method: Redirect
  + Input
    - client\_id : The unique Client-Id assigned to App by MobiID
    - redirect\_uri :Logout successful , return to page**[redirect\_uri]**
  + URL Template
    - Link sandbox :

<http://sandbox.graph.vtcmobile.vn/oauth/authorize>?

client\_id={client\_id}

&redirect\_uri={authorizationurl }

&action=logout

&agencyid={agency\_id}

* + - Link live

<http://graph.vtcmobile.vn/oauth/authorize>?

client\_id={client\_id}

&redirect\_uri={authorizationurl}

&action=logout

&agencyid={agency\_id}

* **Note**: Don’t clear a InApp-Browser Cookie, just use logout API then closed app

## 2.3 Business ClientApp

### 2.3.1 Sign up (optional)

* Locate button on Client App **[Register]**
* Users click this button to open the InApp-Browser call URL
  + Link sandbox <http://sandbox.graph.vtcmobile.vn/oauth/authorize?client_id=...&redirect_uri=http://mobileserver/register&action=register>
  + Link live: http://graph.vtcmobile.vn/oauth/authorize?client\_id=...&redirect\_uri=http://mobileserver/register&action=register
* Web processing
* registration successful , return to page**[redirect\_uri]**

### 2.3.2 Login

* Locate button on Client App**[Login]**
* Users click this button to open the InApp-Browser call URL  
  <http://mobileserver/login>
* This page built by Server App, when called will redirect the user to a URL
  + Link sandbox <http://sandbox.graph.vtcmobile.vn/oauth/authorize?client_id=...&redirect_uri=http://mobileserver/login>
  + Link live http://graph.vtcmobile.vn/oauth/authorize?client\_id=...&redirect\_uri=http://mobileserver/login

### 2.3.3 Get authorization code

* Authenticationsuccessful, InApp-Browser will redirect the URL
  + Link http://mobileserver/authorization?code=
* Client App read the authorization code in the URL and stored in Client App

### 2.3.4 Post authorization code get accessToken

* Client call the URL inPartner Server App
  + Method : POST
  + Link <http://partner-server-app/accessToken>
  + Return: string json  
    Example
    - {

"IsAuthen":true,

"AccessToken":"k6475797.1364295136.QgB3AEQALwBEAGIAUAAvAG8ANQBQAHEASgA3AGIAbQBjAFMARABGAFEAQQA9AD0A",

"AccountId":6475797,

"AccountName":"htmlsanu"

}

* Client App store this parameter in Client App, when client call VTC Mobile Mobi API need to use this accesstoken

### 2.3.5 Logout

* Locate button on Client App **[Logout]**(this button may be located in Control Panel )
* Users click this button to open the Web Browser InApp call URL
  + Link sandbox <http://sandbox.graph.vtcmobile.vn/oauth/authorize?client_id=...&redirect_uri=...&action=logout&agencyid>=...
  + Link live: http://graph.vtcmobile.vn/oauth/authorize?client\_id=...&redirect\_uri=...&action=logout&agencyid=...
* Web processing
* Logout successful , return to page**[redirect\_uri]**

### 2.3.6 Accounts Setting

* Locate button on Client App **[Accounts]**(this button may be located in Control Panel ). User can find following options: Change Password, Update Profile,PrivacySettings,Help Center,….
* Users click this button to open the InApp-Browser call URL
  + Link sandbox <http://sandbox.vtcmobile.vn/accounts/mobile/settings.aspx>
  + Link live: <http://vtcmobile.vn/accounts/mobile/settings.aspx>
* Locate CloseButton (X) to close InApp-Browser.

# 4.Integrate and Implementation

## 4.1 Connect sandbox environment:

The parameters of the services provided VTC Mobile partners to implement test include:

|  |  |
| --- | --- |
| **Name** | **Value** |
| get\_accesstoken\_url | http://sandbox.graph.vtcmobile.vn/oauth/access\_token?client\_id={0}&code={1}&client\_secret={2}&redirect\_uri={3}&agencyid={4} |
| author\_url | http://sandbox.graph.vtcmobile.vn/oauth/authorize?client\_id={0}&redirect\_uri={1}&agencyid={2} |
| register\_url | http://sandbox.graph.vtcmobile.vn/oauth/authorize?client\_id={0}&redirect\_uri={1}&action=register&agencyid={2} |
| Agencyid | 0 |
| ClientId | UH8DN779CWCMnCyeXGrm2BRqiTlJajUyZUEM0Kc |
| Client\_secret | 1rOEMk8hvYAzxjCaT8Y5oBt0LJjgNuPbYspFVCbBw4wbKAHnwFcB5JfcUshZ |

Account information when using the sandbox system including:

|  |  |  |
| --- | --- | --- |
| No | Account | Password |
| 1 | payment.test01 | 123456 |
| 2 | payment.test02 | 123456 |
| 3 | payment.test03 | 123456 |

## 4.2 Live System Integration

At this point if time, VTC Mobile partners will be provided new parameters to implement.

* **ClientID**
* **Client\_secret**

## Supporter

VTC Mobile will spend 01 engineer to support to partner technical team during integration.

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# 5. Appendix

## 5.1Error code

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| STT | Name | Type | Description | |
| 1 | ResponseStatus | int | Status return | |
|  |  |  | >=0 | Transaction successful (return value is the system LogIDMobiID Billing) |
|  |  |  | -5 | Electronic signature is invalid |
|  |  |  | -6 | Transaction time is done |
|  |  |  | -48 | Account blocked |
|  |  |  | -49 | Account is not active |
|  |  |  | -50 | Account does not exist |
|  |  |  | -51 | Account balance is not enough to perform transactions |
|  |  |  | -52 | Invalid Product Price (ITEMPRICE<0) |
|  |  |  | -60 | Invalid Amount (MoneyPartner, ...) |
|  |  |  | -62 | Betting Account not enough |
|  |  |  | -99 | Error transaction on the system MobiID Billing |
|  |  |  | -100 | service code not exist |
|  |  |  | -101 | Invalid Service Code |
|  |  |  | -102 | InvalidaccessToken |
|  |  |  | -103 | AccessToken expiry |
|  |  |  | -999 | Payment in the form of questions |

## 5.2References

* <http://www.slideshare.net/briandavidcampbell/is-that-a-token-in-your-phone-in-your-pocket-or-are-you-just-glad-to-see-me-oauth-20-and-mobile-devices>