



MicroMacro Mobile Inc.

Push Notification API to Pass2U Wallet for Android User Guide

API Version 2.0

July 14, 2017

Version History

Version	Updated At	Note
1.0	June 01, 2015	The original Pass2U Wallet for Android API and documentation
1.3.0	December 02, 2015	Support google play download link.
2.0	July 14, 2017	We've rebuilt Pass2U Wallet for Android API from the ground up to be simpler, more consistent, and truly RESTful.

API Overview

Quickly review all available resources of Push Notification API to Pass2U Wallet for Android 2.0 with this reference overview. We've rebuilt this API from the ground up to be simpler, more consistent, and truly RESTful.

All API URLs referenced in the documentation start with the following base:

★ Push Nitification API base URL is <https://api.passesalliance.com>

HTTP Method	Endpoint	Function
POST	/v2/registrations/{passTypeIdentifier}/push	Send push notification to Pass2U Wallet
GET	/v2/registrations/{passTypeIdentifier}/push?since=yyyy-MM-dd&until=yyyy-MM-dd	Get the number of API calls in nearly a year by the specified passTypeIdentifier and duration
GET	/v2/registrations/push?since=yyyy-MM-dd&until=yyyy-MM-dd	Get the number of API calls in nearly a year by the specified duration

Introduction

Push Notification API to Pass2U Wallet for Android is publicly available to serve Apple Wallet pass service providers to send push notifications to update passes stored in Pass2U Wallet for Android app.

Technical Platform

- RESTful JSON web services via **HTTPS** connections
- Pass2U runs services on Amazon Web Sservices
- Pass2U complies PCI DSS (Payment Card Industry Data Security Standard Standard) to protect your data

Getting Started

Pass2U push notification system requires Push Notification API Key for clients to reach Pass2U Wallet for Android app users. If you'd like to apply for the API Key, please contact Pass2U Support via contact@micromacro.com.tw and provide the information below then we will authorize the API Key for you:

- Company name
- Contact name
- Contact email
- Contact phone
- Official website
- Short description of your business

Authentication

Pass2U uses 32-characters length of Base64 encoded string as API Key to authenticate request. The API Key must be included in all API requests to Pass2U server in header 'x-api-key' like the following sample:

```
x-api-key: e6a45207817bb8e9b1f3e67bb696067c
```

API Key should not be shared outside of your company

API Key allows access to your private data in Pass2U. They should not be shared outside of your company. If you have to change the API Key, please contact us to change your API Key.

API Rate Limits

To help prevent strain on Pass2U push servers, this API imposes rate limits per API key for all issued tokens. There is a limit of 200 requests per second for each API Key and a limit of burst to 100 requests. If exceeding the limit, Pass2U will return HTTP error code 429. Please refer to Amazon's [Throttle API Requests for Better Throughput](#) for more information.

Registering a Device to Receive Push

Notifications for a Pass

Pass2U Wallet complies Apple's Wallet official API for registering a pass for receiving push notifications. Please refer to [PassKit Web Service Reference](#) for more information.

When the pass web server receives the pass registration request, the request header 'X-Pass-Client' describes which app the pass has being installed in. For Pass2U Wallet app, this value is 'Passes'.

The body of registration request is in form of JSON format and includes a 'pushToken' field. The value is the registrationId required for push.

Send Push Notification to Pass2U Wallet

URL Structure

Method	URL
POST	https://api.passesalliance.com/v2/registrations/{passTypeIdentifier}/push

Name	Type	Required	Description
passTypeIdentifier	String	Yes	Pass type identifier issued by Apple. The value must correspond with the signing certificate.

HTTP Request Headers

x-api-key: {API_Key}

Accept: application/json

Content-Type: application/json

Example Request Body

```
{
  "registrationIds": [
    "APA91bHvUNfeYWuqSOo86P9EuJpX6IUN1b6KuRmZWeyWxrJj2mYVMDQ8CUhkt9niaWv
    Cbbq8MG6JHYRY2mhi5PH1z32r1ger8rZNkjPv_gxNvyHZmYRF3kMqMs9OpS8VE8NzKc6
    GTKc4PuUwhwttZGQ1reNnHSWUqg",
    "APA91bHdOuddYpEP6R9rMyVH_b620Y2iqWa94Gzgh_9B4qggrjLby36styVSaU7sF62
    eH-F2LRovFxeFo7tEwoOEEIq0EoXCazJH2jr0ZzT9I3B0dq2-DGajitM4sMJSkr5sw7J
    HtheFlOQs7c6EMaXtvkfTiyXJMg"
  ]
}
```

Name	Type	Required	Description
registrationIds	Array of Strings	Yes	A Registration ID is an identifier assigned by Google Cloud Message (GCM) to a single instance of a single application installed on an Android device. The number of Registration IDs in

			registrationIds must not be larger than 1,000 per API call.
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Example Reponse Body

Forwards GCM response to the API client directly with HTTP response code 200 if the API call is successful.

```
{
  "canonical_ids":0,
  "success":2,
  "failure":0,
  "results":[
    {
      "message_id":"0:1499140281879336%69b0ba84f9fd7ecd"
    },
    {
      "message_id":"0:1499140281879839%69b0ba84f9fd7ecd"
    }
  ],
  "multicast_id":7067738296159344856
}
```

Get the number of API calls in nearly a year by the specified passTypeIdentifier and duration

URL Structure

Method	URL
GET	https://api.passesalliance.com/v2/registrations/{passTypeIdentifier}/push?since=yyyy-MM-dd&until=yyyy-MM-dd

Name	Type	Required	Description
passTypeIdentifier	String	Yes	Pass type identifier, as issued by Apple. The value must correspond with your signing certificate.

since	String	Yes	The format of 'since' must be yyyy-MM-dd'.
until	String	Yes	The format of 'until' must be 'yyyy-MM-dd'.

HTTP Request Headers

x-api-key: {API_Key}

Accept: application/json

Content-Type: application/json

HTTP Request Body

none

Example Response Body

Returns HTTP response code 200 if the API call is successful.

```
{
  "count":1200,
  "passTypeIdentifier":"pass.tw.com.pass2u.stampcard",
  "since":"2017-06-01",
  "until":"2017-07-01"
}
```

Get the number of API calls in nearly a year by the specified duration

URL Structure

Method	URL
GET	https://api.passesalliance.com/v2/registrations/push?since=yyyy-MM-dd&until=yyyy-MM-dd

Name	Type	Required	Description
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since	String	Yes	The format of 'since' must be '2017-01-02'.
until	String	Yes	The format of 'until' must be '2017-03-30'.

HTTP Request Headers

x-api-key: {API_Key}

Accept: application/json

Content-Type: application/json

HTTP Request Body

none

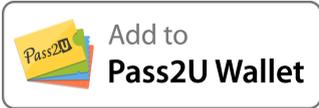
Example Response Body

Returns HTTP response code 200 if the API call is successful.

```
{
  "count":1300,
  "since":"2017-06-01",
  "until":"2017-06-30"
}
```

Add to Pass2U Wallet Badges

Pass2U Wallet badges can be downloaded in the following link and embedded in your websites, apps, emails, or printed materials. The badges are available in different languages.

Image	Download Link
	https://s3-ap-northeast-1.amazonaws.com/pass2u-tokyo/files/Add-to-Pass2U-Wallet.zip

Install Pass2U Wallet and add a new pass automatically

Use the following URL

Method	URL
GET	https://play.google.com/store/apps/details?id=com.passesalliance.wallet&referrer={referrer}

Name	Type	Required	Description
referrer	String	Yes	The URL of the pass to be installed.

The URL is the link of Pass2U Wallet app download page of Google Play Store. Once the app is installed and launched for the first time, the pass will be automatically downloaded from *referrer* and added into Pass2U Wallet App.

Error Codes

HTTP Status Code	Error Code	Retry
400	Bad Request Exception	No
403	Access Denied Exception	No
404	Not Found Exception	No
405	Bad Method	No
405	HTTP Not Acceptable	No
409	Conflict Exception	No
415	HTTP Unsupport Type	No
429	Too Many Requests Exception	Yes
503	Service Unavailable Exception	Yes
504	Endpoint Request Timed-out Exception	Yes