



API Guide

Version 2.2

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1 Overview

MACH is designed to make your life as a mobile app developer easier by providing you a reliable cloud-based platform that is pre-integrated to Apple's Push Network and Google's Cloud Messaging service.

You have your mobile app call our simple HTTP-based API, and in no time you can start broadcasting large volume Push Notifications to your app.

There are two main API types:

A) Registration API

This is called each time your mobile app launches. It reports important information to the MACH service including the latest Push Notification token assigned by Apple or Google to your mobile app.

B) Push Notification API

You call this API to send a Push Notification to a specified device (identified by its unique device ID or a friendly tag name).

1.1 Configuration on MACH Web Portal

You will require an account on the MACH Web Portal for configuring some essential information regarding your mobile app, before you can start using the MACH API.

You can get a free MACH account at <https://app.themach.com>

The MACH Web Portal also provides you features such as a broadcast interface, device tagging, analytics and message reports.

1.2 Other Pre-requisites

1.2.1 Apple Push SSL Certificate

For iOS Apps, you will need to create a Push SSL certificate using your Apple Developer account at <https://developer.apple.com>

On the Apple Developer web site, click Member Center, click Certificates, Identifiers and Profiles, and then click Certificates and download the certificate. You will need to upload this certificate on the MACH Web Portal.

1.2.2 Google Firebase Cloud Messaging (FCM) Key

For Android Apps, you will require a Google Firebase server key, which you can get using your Google account at <https://firebase.google.com/>

You will need to enter this key on the MACH Web Portal.

1.2.3 Enabling Push Notification within your code

There are some steps you need to take to enable Push Notification within the code of your mobile app. For details on the respective mobile platforms, please refer to the links below:

For iOS:

<https://developer.apple.com/notifications/>

For Android:

<https://firebase.google.com/docs/cloud-messaging/android/client>

2 Registration API

2.1 Overview

URL	https://push.themach.com/MachRegServlet/reg
Description	Call this API on every application launch to update MACH service with the latest Push-related data for each mobile device.
HTTP Method	POST

2.2 Parameters

Parameter	Description
AppId	This is the MACH App ID that you have created for your mobile app on the MACH Portal
SecretKey	The secret key value found on the MACH Portal, in the configuration page of your MACH App ID. This SecretKey should be known only to your mobile app.
DeviceUID	The unique device identifier that you have generated for each user of your mobile app, for unique identification use with the MACH service only. The way to generate this value is different for iOS and Android.
PushToken	<p>The unique Push-related identifier given to your mobile app by APN or FCM.</p> <p>For iOS, this will be returned by the method <i>didRegisterForRemoteNotificationsWithDeviceToken</i></p> <p>For Android, this will be the Registration ID returned by the method <i>FirebaseInstanceId.getInstance().getToken()</i></p>

<p>Custom</p>	<p><i>This is an optional parameter.</i></p> <p>If your mobile app captures some piece of unique user information such as email address or phone number via a registration process, you can choose to use this as a user-friendly identifier for the DeviceUID being registered. This custom value will appear in the MACH Web Portal for your Tagging thereafter.</p> <p>If you wish to integrate your Mobile App to the CommzGate CloudSMS (https://portal.commzgate.com), please ensure that the “Custom” parameter is used and that its value must contain a valid mobile number (including country code and excluding any symbols). This value must be stored persistently in your Mobile app and be included in every Registration request.</p>
<p>Action</p>	<p><i>This is an optional parameter</i></p> <p>Use this only if you wish to integrate your Mobile App to the CommzGate CloudSMS (https://portal.commzgate.com). If used, please ensure that the “Custom” parameter is used and that its value contains a valid mobile number (including country code and excluding any symbols)</p> <p>Possible values are:</p> <p>“CustomActivate” This value will inform CommzGate CloudSMS to route messages to the mobile device as a Push Notification instead of an SMS.</p> <p>“CustomDeactivate” This value will inform CommzGate CloudSMS to disable a previous “CustomActivate” request. CommzGate CloudSMS will send subsequent messages to the mobile device as an SMS.</p>

An example of the Registration API HTTP POST request string is as follows:

Example 1: Registration API with Email as Custom value

```
https://push.themach.com/MachRegServlet/reg?  
AppId=3762&SecretKey=iecMameiJ1teJCyYfi8f  
&DeviceUID=564f50dfee1536b6a4ce1f129ae1cf4210c  
&PushToken=564f50dfe6153eef114ce1f323121e9ae1cf4210c  
&Custom=jennifer@commzgate.com
```

Example 2: Registration API with Mobile Number as Custom value for integration to CommzGate CloudSMS

```
https://push.themach.com/MachRegServlet/reg?  
AppId=9876&SecretKey=iecMameiJ1teJCyYfi8f  
&DeviceUID=564f50dfee1536b6a4ce1f129ae1cf4210c  
&PushToken=564f50dfe6153eef114ce1f323121e9ae1cf4210c  
&Custom=6587654321&Action=CustomActivate
```

If your POST request was successfully, you would get a HTTP 200 header respond with body content containing a return code representing one of the following:

```
01010 : Successful request submission  
01011: Invalidate parameters in request  
01012 : Wrong App ID or Secret Key  
01013 : Other general error
```

3 Send Message API

3.1 Overview

URL	https://push.themach.com/MachMTServlet/mt
Description	Call this API to send a Push Message to a specified mobile device.
HTTP Method	POST

3.2 Parameters

Parameter	Description
ID	The MACH App ID that you have created for your mobile app on the MACH Portal
Password	The API key value found on the MACH Portal, in the configuration page of your MACH App ID
DeviceUID	The unique identifier of the device you intend to send a Push message to. You had generated this within your mobile app, and had used it in the MACH Registration API request
Message	The message content you intend to send.
Custom	<i>This is an optional parameter.</i> If you know the friendly custom value that the mobile device had use to register, you can use this parameter instead of DeviceUID.

An example of the Send Message HTTP POST request string is as follows:

Example 1: Send Message API with DeviceUID

```
https://push.themach.com/MachMTServlet/mt?ID=1009&Password=ab3e411cc  
&DeviceUID=564f50dfe61536b6a4ce1f323121e9ae1cf4210c  
&Message=Have+a+nice+Sunday!
```

Example 1: Send Message API with Custom value

```
https://push.themach.com/MachMTServlet/mt?ID=1009&Password=ab3e411cc  
&Custom=TagABC&Message=Have+a+nice+Sunday!
```

If your POST request was successfully, you will get a HTTP 200 header respond with body content in the following format:

```
<Return Code>, <Transaction ID>
```

eg. 01010, MSG_MACHSERVER_1349391055348_5095

where Return Code can be one of the following:

```
01010 : Successful request submission  
01011: Invalid parameters in request  
01012 : Wrong ID or Password  
01013 : Other general error  
01014 : This routing is not permitted
```

and Transaction ID is a unique transaction ID returned for each request and to be used for subsequent delivery tracking.

4 Need Help?

Got a question? Feel free to let us know by contacting us at supportdesk@commzgate.com

APPENDIX A: Integrating your MACH-enabled mobile app to CommzGate CloudSMS

The following guidelines should be followed when integrating your MACH-enabled mobile to CommzGate CloudSMS (<https://portal.commzgate.com>)

1) The very time the mobile app is launched, send a request to the MACH Registration API (even before the mobile number value is available)

This will register the App on our service the very first time and initialise the necessary settings on MACH. The following parameter values should be *blank* for this very first call:

Custom=
Action=

2) For subsequent mobile app launches, continue to send requests to the MACH Registration API

a) If there is a mobile number value available for the user profile, and you wish to activate CloudSMS integration for this user, the following parameter values should be sent:

Custom=xxxxxxx (where x represents the mobile number value)
Action=CustomActivate

b) If CloudSMS integration has already been activated for the user, the following parameter values should be sent:

Custom=xxxxxxx (where x represents the mobile number value)
Action=

c) If the user changes his mobile number, the following parameter values should be sent:

Custom=yyyyyyy (where y represents the NEW mobile number value)
Action=CustomActivate

d) To de-activate CloudSMS integration for a user, the following parameter values should be sent:

Custom=xxxxxxx (where x represents the mobile number value)
Action=CustomDeactivate

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