# Migrate to the HTTP v1 API

Caution: Sending messages (including upstream messages) with the FCM XMPP and HTTP legacy APIs was deprecated on June 20, 2023, and **will be removed in June 2024.**

## HTTP request

* It is versioned, with /v1 in the path
* The path contains the project ID of the Firebase project for your app, in the format /projects/myproject-ID/
* Its explicitly is to have specific of Send Method as :send

### HTTP requests before

POST <https://fcm.googleapis.com/fcm/send>

### HTTP requests after

POST [https://fcm.googleapis.com/v1/projects/myproject-b5ae1/messages:send](https://fcm.googleapis.com/v1/projects/myproject-b5ae1/messages%3Asend)

### Changes

* Need define project ID of the Firebase Project in PNS
* Change base URL FCM at PNS Source code.

### How to find out Project ID

* Open <https://console.firebase.google.com/project/_/settings/serviceaccounts/adminsdk>
* To locate Project ID



## Authorization

### Auth before

Authorization: key=AIzaSyZ-1u...0GBYzPu7Udno5aA

### Auth after

Authorization: Bearer ya29.ElqKBGN2Ri\_Uz…0HwUda

### Changes

* Change code PNS when build request to firebase.
* Token generated without google library because Java version current PNS code is 1.6. (Not support google library)
* Minimum version support Google Library is Java version 1.8.
* Alternatively need to manual generate token with private key and email service account (all information in service account JSON file)

### How to find out Service Account JSON

* Open <https://console.firebase.google.com/project/_/settings/serviceaccounts/adminsdk>
* Find out Project used and click to see details.



* Under tab service account, click generate new private key.



**Remark:**

***May need OCBC Team to download the Private Key from Production FCM for both iOS and Android and share to Silverlake for before Production deployment.***

## Payload of send request.

FCM HTTP v1 introduces a significant change in the structuring of the JSON message payload. Primarily, these changes ensure that messages are managed correctly when received on different client platforms; additionally, the changes give you extra flexibility to customize, or "override" message fields per platform.

### Payload before

{
  "notification": {
    "title": "Breaking News",
    "body": "New news story available."
  },
  "data": {
    "refNo": "78278bde-000d",

    "type": "",

    "template": "template"
  },

  "registration\_ids": ["dRCC660…J1gCae"]
}

### Payload after

{
  "message": {
    "topic": "news",
    "notification": {
      "title": "Breaking News",
      "body": "New news story available."
    },
    "data": {
      "story\_id": "story\_12345"
    }
  }
}

### Payload targeting multiple platforms.

{
  "message": {
    "topic": "news",
    "notification": {
      "title": "Breaking News",
      "body": "New news story available."
    },
    "data": {
      "story\_id": "story\_12345"
    },
    "android": {
      "notification": {
        "click\_action": "TOP\_STORY\_ACTIVITY"
      }
    },
    "apns": {
      "payload": {
        "aps": {
          "category" : "NEW\_MESSAGE\_CATEGORY"
        }
      }
    }
  }
}

### Changes

* Change code PNS when build request to firebase.

# Full information PNS new payload when hitting firebase.

curl --location 'https://fcm.googleapis.com/v1/projects/velocitymobile-1e01e/messages:send' \

--header 'Content-Type: application/json' \

--header 'Authorization: Bearer ya29.c.c0AY\_VpZjHQ\_1BQiX6OUh\_h1pUfO9uvRc9ICXGYvIn7oSvZQbTxmjE6RIjXCTJZ-kKr7zh3lQDBrLasy8spf6hVznQ66gduizFaHhD\_Tn7WHbPuQn7oy6VmM\_Yp5ueGSj7sYRQQI0LhFlzO845wLFF1KdHotFCx57greKJQEmiNW\_dlW7xfZr9Y022B1VdQsEMVhMH2xSIHKNMKqAed4Dx01nEccmRWTOi0hPJwuPfSFZGoLuRhWYssqUp2JSCLfW3LnnidpbrysLlgz-P\_FZLtDl82e-Kd\_3BoBij62sPNb57Z\_9xktxuTegFvnTcsoXgwpFPFrdyp\_wVo-xhmHs-LRNeJ9hHwDYrHC0rkVWLVr85I81RFpzBJWDwN385A6yua3rsJSRbfMSvi3F02ZxwcMWWmXamvhB\_mb48ilzQcSSwrFRBfmw6t95U1z20ya2MFl2M7jrdSUfn2Jq3g9kx\_e8OSUhWqtsUR1B3di0M2015quWJe6FRJlxY4WZMuIkkd\_ousYjZFnpXxes334twRjp8nSjl2dXlx5Shcjqsf8nRo8UrqtXQon0s3lIncQZykkel2oaUqcZQQwZF5VvfJ7gf3OSupMik-o2vzaY3WVBflupeJnaUrWp6ca4ekdhbnsBk4Biby-jSI\_aUbwspi39rB9jRkwvksSpxziso5Z4zItqQSV55ypg-ue-7Rg07RI7FhvvqYpu1V5ntJdySMWm9BzBrZRbIzf\_s9q5U5q3euh\_Swqz9O0uSgZp5dYWYJM72vZ\_UW992Z3sRYzcl55-sid38IpgoWkg7cnQy8J0ojmj614XzRWklh5WksaXxkVgZ\_J1U2-azxbvWghc0ZX0UxO7bUR0ttSbc8cs6Q8Z9lniukfzrIfYMOn9llq\_jVmwzMv67yF3qYx0dYq7\_4oZbjkz3itd647yM1cJjZ6dw1XJ9-J0Ml2YfUFSvj7iv-IQVp9wFono-9x5kdSttdn0ZSk8cpv-uk7Zsq67SIFSb6nIW7y9eRw3' \

--data '{

 "message": {

 "token": "dRC660XhUENrqeJ1glkrbR:APA91bFr9tfkFaSL24rpg8sCTVVs38wgwlZcYgc3y5OoRYMlX5xShblJVa-fixXIA6\_yzIFgpyjsOB85bA-XkPFql8SN9n7f5xr5DlvN5GcjMmEF19I8kDAw2VYFBK3pPu5CeQO4MCae",

 "data": {

 "refNo": "ef00b2ab-c548-490e-b9b7-33b339d584b9"

 },

 "notification": {

 "body": "You bound iPhone 13 Pro to OCBC Business mobile. Please login to check your bound device",

 "title": ""

 }

 }

}'

*Note: This bearer token has a short lifespan so it cannot be used forever, which needs to generate new tokens if it expires.*