☆Types of Messages

☆Notification Messages

These are handled by the FCM SDK automatically.

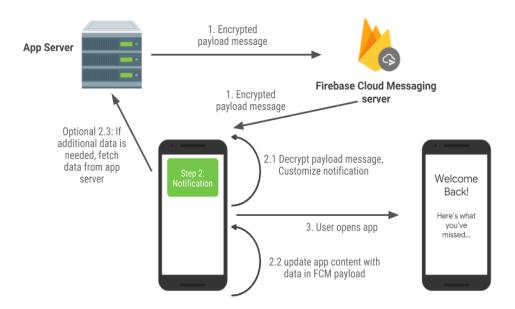
- Background: the system handles showing the notification on behalf of your app.
- Foreground: the FCM notification message is delivered to the onMessageReceived() handler. Your app will handle it by posting a notification of fetch content from app server.
- Ison format

```
{
    "message":{
        "token":"bk3RNwTe3H0:CI2k_HHwgIpoDKCIZvvDMExUdFQ3P1..."

        "notification":{
        "title":"Portugal vs. Denmark",
        "body":"great match!"
      }
    }
}
```

- Json format of Notification messages with additional payload data

```
"message":{
    "token":"bk3RNwTe3H0:CI2k_HHwgIpoDKCIZvvDMExUdFQ3P1
...",
    "notification":{
        "title":"Portugal vs. Denmark",
        "body":"great match!"
    },
    "data" : {
        "Nick" : "Mario",
        "Room" : "PortugalVSDenmark"
    }
}
```

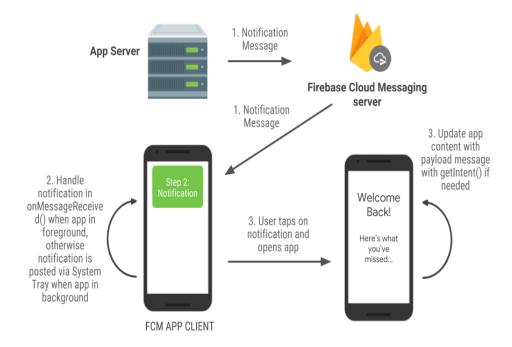


☆Data Message

These are handled by the client app.

- When sending data messages, you need to handle the messages in onMessageReceived() callback in the client app.
- Json format

```
"message":{
    "token":"bk3RNwTe3H0:CI2k_HHwgIpoDKCIZvvDMExUdFQ3
P1...",
    "data":{
        "Nick": "Mario",
        "body": "great match!",
        "Room": "PortugalVSDenmark"
    }
}
```



☆The limitation

 Notification messages contain a predefined set of user-visible keys. Data messages, by contrast, contain only your user-defined custom key-value pairs. Notification messages can contain an optional data payload. Maximum payload for both message types is 4000 bytes, except when sending messages from the Firebase console, which enforces a 1024 character limit.

(https://firebase.google.com/docs/cloud-messaging/concept-options)

- if the payload data included in message exceed FCM limit, we will get this erros
 - ① http-server-ref (https://firebase.google.com/docs/cloudmessaging/http-server-ref#error-codes table 9)

Message Too Big	200 + error:MessageTooBig	Check that the total size of the payload data included in a message does not exceed FCM limits: 4096 bytes for most messages, or 2048 bytes in the case of messages to topics. This includes both the keys
		includes both the keys and the values.

② Firebase Admin FCM API error codes (https://firebase.google.com/docs/cloud-messaging/send-message#example-notification-message-with-platform-specific-delivery-options)

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messaging/payload-	The provided message payload exceeds the FCM	
size-limit-exceeded	size limits. The limit is 4096 bytes for most	
	messages. For messages sent to topics, the limit is	
	2048 bytes. The total payload size includes both	
	keys and values.	