#### **Android Client Setup**

- 1. Goto https://console.firebase.google.com/
  - 1.1 Add Project
  - 1.2. Setup Cloud Messaging
  - 1.3 Download google-services.json
  - 1.4 Find FCM\_SERVER\_API\_KEY
- from Project Settings > Cloud Messaging, and copy this for later use (for sending push from your server) 2. Copy google-services.json to native/android/google-services.json

#### **UWP Client Setup**

- 1. Register app in Windows Store.
  - https://developer.microsoft.com
- 2. Setup WNS/MPNS notifications for app in Win Store Dashboard 3. Find the **Package SID** (e.g ms-app://xxxx), and **Client Secret** for later use (for sending push from your server).

### iOS Client Setup

#### 1. Run iOS Certificate Wizard

1.1 Check "Include Push" check box.

2. Use certificate URL and passwords you receive via automated email in order to send push from your server

## **Javascript Client Setup**

 Chrome:
 Add gcm.sender\_id build hint

 Firefox, MS Edge, Opera:
 No setup required

Safari: Not supported yet

Must serve app using https://

## **Implementing Push in Client**

public class MyApplication implements PushCallback {
 public void start() {

// Register device to receive push
Display.getInstance().registerPush();
// The rest of your start() logic....

public void push(String value) {
 System.out.println("Received push message: "+value);

public void registeredForPush(String discard) {
 // Successfully registered device for push!!
 String DEVICE\_ID = Push.getPushKey();
 // Store this DEVICE\_ID for later use

public void pushRegistrationError(String err, int errCode) {
 System.out.println("An error occurred during push
registration.");

## Sending a Push

https://push.codenameone.com/push/push?token=PUSH\_TOKEN
&device=DEVICE\_ID1&device=DEVICE\_ID2&...&device=DEVICE\_IDN
&type=PUSH\_TYPE{1|2|3|4|5|99|100|101}
&auth=FCM\_SERVER\_API\_KEY
&certPassword=ITUNES\_CERT\_PASSWORD
&cert=ITUNES\_CERT\_URL
&body=MESSAGE\_BODY
&production=ITUNES\_PRODUCTION\_PUSH{true|false}
&sid=WNS\_SID
&client secret=WNS CLIENT SECRET

Obtain **PUSH\_TOKEN** from Codename one Dashboard

## Push Message Types

**0**, **1** - The default push types, works everywhere. string as the push alert

 2 - hidden, This won't show any visual indicator on any OS!
 Android: triggers push(String) w message body. iOS: only if the app in fg o/w push is lost

3 - 1 + 2 = 3 combines visual with non-visual portion. Message form:
 This is what the user won't see; This is something he will see.

4 - Split a visual push request based on the format title;body

5 - Regular push but no sound

99 - XML message body; Root element contains at least type and body atts. Supports image attachments and push actions. E.g. <push type="1" body="Hello World"/>

**100** - Set numeric badge on app icon. The body of the message must be a number e.g. unread count.

**101** - Same as 100 with added message separated with a space. E.g. 30 You have 30 unread messages will set the badge to "30" and present the push notification text of "You have 30 unread messages".

# **CN1 PUSH CHEATSHEET**