

# Handling SMS Notifications in Android

## Overview

SMS notifications are a sub-set of Push Notification, as such make sure to first go through the Push notifications in Android (../) tutorials.

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## Notifications API

In SMS notifications, when registering the device, a phone number value is passed.

### Challenge Handlers

If the `push.mobileclient` scope is mapped to a **security check**, you need to make sure matching **challenge handlers** exist and are registered before using any of the Push APIs.

### Initialization

Required for the client application to connect to MFPPush service with the right application context.

- The API method should be called first before using any other MFPPush APIs.
- Registers the callback function to handle received push notifications.

```
MFPPush.getInstance().initialize(this);
```

### Register Device

Register the device to the push notifications service.

```
MFPPush.getInstance().registerDevice(new MFPPushResponseListener<String>() {  
    @Override  
    public void onSuccess(String s) {  
        // Successfully registered  
    }  
  
    @Override  
    public void onFailure(MFPPushException e) {  
        // Registration failed with error  
    }  
});
```

### Unregister Device

Unregister the device from push notification service instance.

```
MFPPush.getInstance().unregisterDevice(new MFPPushResponseListener<String>() {  
    @Override  
    public void onSuccess(String s) {  
        disableButtons();  
        // Unregistered successfully  
    }  
  
    @Override  
    public void onFailure(MFPPushException e) {  
        // Failed to unregister  
    }  
});
```

## Using a SMS subscribe servlet

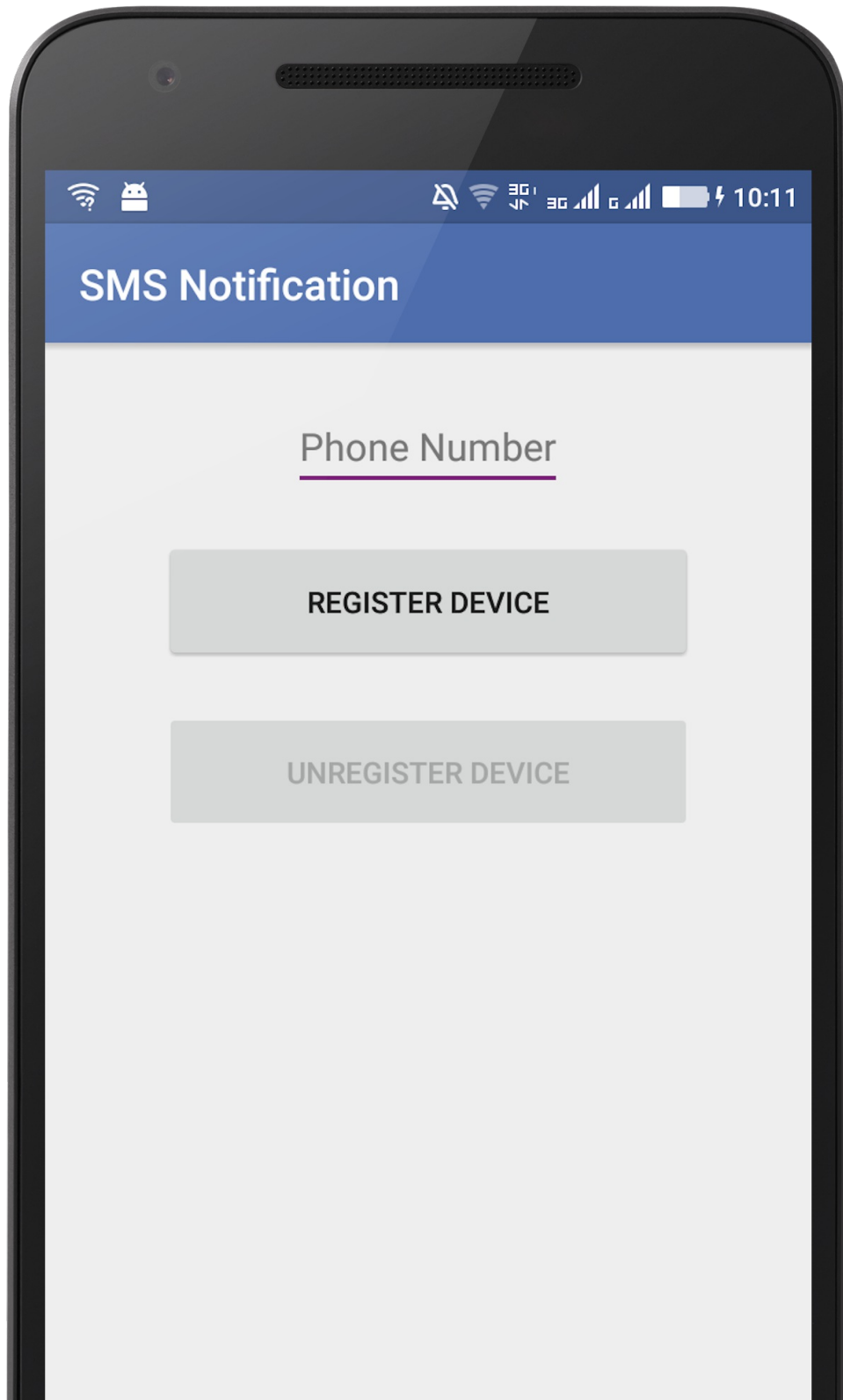
REST APIs are used to send notifications to the registered devices. All forms of notifications can be sent: tag & broadcast notifications, and authenticated notifications

To send a notification, a request is made using POST to the REST endpoint: `imfpush/v1/apps/<application-identifier>/messages`.  
Example URL:

<https://myserver.com:443/imfpush/v1/apps/com.sample.sms/messages>

To review all Push Notifications REST APIs, see the REST API runtime services ([https://www.ibm.com/support/knowledgecenter/SSHS8R\\_8.0.0/com.ibm.worklight.apiref.doc/rest\\_runtime/c\\_restapi\\_runtime.html](https://www.ibm.com/support/knowledgecenter/SSHS8R_8.0.0/com.ibm.worklight.apiref.doc/rest_runtime/c_restapi_runtime.html)) topic in the user documentation.

To send a notification, see the sending notifications (../sending-push-notifications) tutorial.





## Sample application

Click to download (<https://github.com/MobileFirst-Platform-Developer-Center/SMSNotificationsSwift/tree/release80>) the Cordova project.

**Note:** The latest version of Google Play Services is required to be installed on any Android device for the sample to run.

## Sample usage

1. From a **Command-line**, navigate to the project's root folder.
2. Register the application by running the command: `mfpdev app register`.
3. In the MobileFirst console, under **Applications** → **SMSNotificationsAndroid** → **Security** → **Map scope elements to security checks**, add a mapping for `push.mobileclient`.
4. Import the project to Android Studio, and run the sample by clicking the **Run** button.

## Sending an SMS notification

- Tag notification
  - Use the **MobileFirst Operations Console** → **[your application]** → **Push** → **Send Push tab**.