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.

Jump to:

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

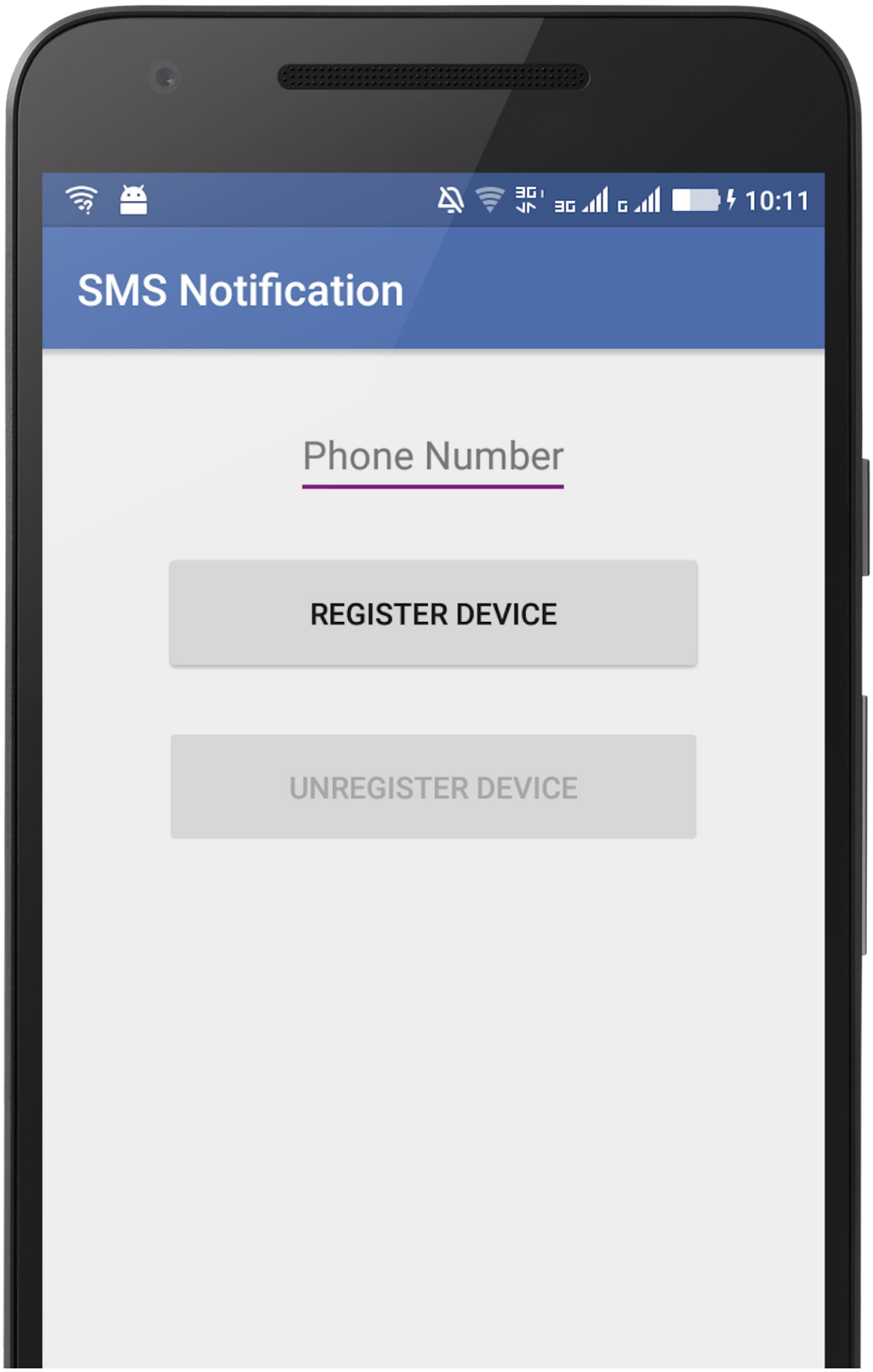
REST APIs are used to send notifications to the registered devices. All forms of notifications can be sent: tag & broadcast notifications, and authenticated notifications

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) 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** .