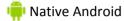
MobileFirst Platform {dev}

Tag and Broadcast Notifications in Native Android Applications

Relevant to:



Overview

Prerequisite: Make sure that you read the <u>Push notifications in native Android applications</u> tutorial first.

Tag notifications are notification messages that are targeted to all the devices that are subscribed to a particular tag.

Tags represent topics of interest to the user and provide the ability to receive notifications according to the chosen interest.

Broadcast notifications are a form of tag push notifications that are targeted to all subscribed devices. Broadcast notifications are enabled by default for any push-enabled MobileFirst application by a subscription to a reserved Push.all tag (auto-created for every device). Broadcast notifications can be disabled by by unsubscribing from the reserved Push.all tag.

Agenda

- Notifications configuration
- Notifications API

Notifications configuration

Tag Notifications configuration

Setting up tags

Tags are defined in the application-descriptor.xml file:

Notifications API

API methods for tag notifications

Client-side API

- WLPush.subscribeTag(tagName, options) Subscribes the device to the specified tag name
- WLPush.unsubscribeTag (tagName, options) Unsubscribes the device from the specified tag name
- WLPush.isTagSubscribed(tagName) Returns whether the device is subscribed to a specified tag name

Common API methods for tag and broadcast notifications

Client-side API

- WLNotificationListener
 - Defines the callback method to be notified when the notification arrives.
- client.getPush().setWLNotificationListener(listener)
 - This method sets the implementation class of the WLNotificationListener interface.
- client.getPush().setOnReadyToSubscribeListener(listener)
 This method registers a listener to be used for push notifications. This listener should implement the onReadyToSubscribe() method.
- The onMessage (props, payload) method of WLNotificationListener is called when a push notification is received by the device.
 - props A JSON block that contains the notifications properties of the platform.
 - payload A JSON block that contains other data that is sent from MobileFirst Server. The JSON block also contains the tag name for tag-based or broadcast notification. The tag name appears in the "tag" element. For broadcast notification, the default tag name is Push.ALL.

Server-side API

WL.Server.sendMessage (applicationId, notificationOptions)
This method submits a notification that is based on the specified target parameters.

- applicationId (mandatory) The name of the MobileFirst application
- notificationOptions (mandatory) A JSON block containing message properties

For a full list of message properties, refer to the WL.Server.sendMessage API in the API reference of user documentation

Sample application

Before running the application, check the adapter's <code>PushAdapter-impl.js</code> file and verify that the <code>WL.Server.sendMessage()</code> method use the correct application name. The correct application name can be determined from the <code>id</code> attribute in <code>application-descriptor.xml</code>.

Click to download the MobileFirst project.

Click to download the Native project.

- The TagNotifications project contains a MobileFirst native API that you can deploy to your MobileFirst Server instance.
- The TagNotificationsAndroid project contains a native android application that uses a MobileFirst native API library to subscribe to push notifications and receive notifications from GCM.
- Make sure to update the wlclient.properties file in the native project with the relevant server settings.