# Tag-based notifications in native Windows 8 applications

### **Overview**

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.

### Setting up tags

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

```
<nativeWindows8App xmlns="http://www.worklight.com/native-windows8-descriptor" id="NativeWin8TagNotifications" platfu
 1
     <pushSender clientSecret="WNS_CLIENT_SECRET" packageSID="WNS_PACKAGE_SID"/>
 2
 3
 4
 5
    <tags>
 6
       <tag>
7
         <name>my tag 1</name>
8
         <description>About my tag 1</description>
9
       </tag>
10
       <tag>
11
         <name>my tag 2</name>
12
         <description>About my tag 2</description>
13
14
     </tags>
15
```

### Tag-based notifications API methods

#### Client-side API methods

- 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-based and broadcast notifications

#### Client-side API

- WLNotificationListener
  - Defines the callback method to be notified when the notification arrives.
- WLPush.notificationListener = new MyNotificationListener();
   Sets the implementation class of the WLNotificationListener interface.
- WLPush.onReadyToSubscribeListener
  - 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

This method submits a notification that is based on the specified target parameters.

- WL.Server.sendMessage(applicationId, notificationOptions)
  - o applicationId (mandatory) The name of the MobileFirst application
  - o notificationOptions (mandatory) A JSON block containing message properties

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

## Sample application

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

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(http://public.dhe.ibm.com/software/products/en/MobileFirstPlatform/docs/v700/TagBasedNotificationsProject.zip) the Studio project.

Click to download

(http://public.dhe.ibm.com/software/products/en/MobileFirstPlatform/docs/v700/Win8NativeTagNotificationsProject.zip) the Native project.