## 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:

## API methods for tag-based notification

#### **Client-side API methods:**

- WL.Client.Push.subscribeTag(tagName,options) Subscribes the device to the specified tag name.
- WL.Client.Push.unsubscribeTag(tagName,options) Unsubscribes the device from the specified tag name.
- WL.Client.Push.isPushSupported() Returns true if push notifications are supported by the platform, or false otherwise.
- WL.Client.Push.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.
- 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 must 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 notification 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, notification0ptions) **applicationId** - (mandatory) The name of the MobileFirst application. **notificationOptions** - (mandatory) A JSON block containing message properties. Submits a notification based on the specified target parameters.

For more information about tag-based notification, see the "tag-based notification" topic in the user documentation.

## Sample application

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(http://public.dhe.ibm.com/software/products/en/MobileFirstPlatform/docs/v700/TagBasedPushNotificationsProject.zip) the Studio project. The provided sample application demonstrates how to send a broadcast notification to the default autosubscribed push.ALL tag. The sample also demonstrates how to send notifications to two predefined tags, sample-tag1 and sample-tag2, to which the user can subscribe in the application.



