MobileFirst Platform {dev}

Tag and Broadcast Notifications in Native Windows Phone 8 **Applications**

Relevant to:



Overview

Prerequisite: Make sure that you read the <u>Push notifications in native Windows Phone 8 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 (autocreated for every device). This ability 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:

```
<nativeWindowsPhone8App id="NativeWP8TagNotifications" platformVersion="7.0.0.00.20150227-</pre>
0916"
    version="1.0" xmlns="http://www.worklight.com/native-windowsphone8-descriptor">
. . .
<tags>
    <tag>
        <name>my tag 1</name>
        <description>About my tag 1</description>
    </tag>
    <tag>
        <name>my tag 2</name>
        <description>About my tag 2</description>
    </tag>
</tags>
```

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)

- 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.
 - o payload A JSON block that contains other data that is sent from MobileFirst Server. It also contains the tag name for tag-based and 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 based on the specified target parameters and takes two mandatory 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 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 use the correct application name. The correct application name can be determined from the id attribute in application-descriptor.xml.

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.
- The TagNotificationsWP8 project contains a native Windows Phone 8 application that uses a MobileFirst native API library to subscribe for push notifications and receive notifications from MPNS.
- Make sure to update the wlclient.properties file in the native project with the relevant server settings.