MobileFirst Platform {dev}

Tag and Broadcast Notifications in Native Windows 8 Applications

Relevant to:



Native Windows 8 Universal

Overview

Prerequisite: Make sure that you read the <u>Push notifications in native Windows 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 (auto-created 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:

```
<nativeWindows8App xmlns="http://www.worklight.com/native-windows8-descriptor"</pre>
id="NativeWin8TagNotifications" platformVersion="7.0.0.00.20150312-0731"
version="1.0">
<pushSender clientSecret="WNS CLIENT SECRET" packageSID="WNS PACKAGE SID"/>
. . .
<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>
</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
- 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.
- 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

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, 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.

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 TagNotificationsWin8 project contains a native Windows 8 Universal application that uses a MobileFirst native API library to subscribe to push notifications and receive notifications from Windows Notification Services (WNS).
- Make sure to update the wlclient.properties file in the native project with the relevant server settings.

