## MobileFirst Platform {dev}

# **Push Notifications in Native Windows Phone 8 Applications**

Relevant to:



## **Overview**

This tutorial explains how to configure a MobileFirst Native Windows Phone 8 application to support push notifications. Also mentioned are the addresses and ports that are required for notifications to arrive to the supported Microsoft Push Notification Service vendor (MPNS).

Prerequisite: Make sure that you read the Configuring a native Windows Phone 8 application with the MobileFirst Platform SDK tutorial first.

# Setting up the project

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To send push notifications to Windows Phone 8 devices, use the Microsoft Push Notifications Service (MPNS).

- Non-authenticated push notification does not require any setup from the developer. Authenticated push notification requires a Windows Phone Dev Center account.
- To use authenticated push, you must use a certificate that is issued by a Microsoft-trusted root certificate authority. For production, consider using authenticated push notification in order to ensure that the information is not compromised.

#### 1. Create a MobileFirst project.

Add a MobileFirst Windows Phone 8 native API. The native API project provides the files that are necessary to build a Windows Phone 8 app.

#### 2. Edit the application-descriptor.xml file.

Add the pushSender element under the nativeWindows8App environment (these settings are also editable with the Application Descriptor Editor in Design mode).

Non-authenticated push

```
<nativeWindowsPhone8App id="AppName" platformVersion="7.0.0.00.20150312-0731"</pre>
    version="1.0" xmlns="http://www.worklight.com/native-windowsphone8-
descriptor">
    <displayName>AppName</displayName>
    <description>AppName</description>
    <pushSender />
</nativeWindowsPhone8App>
```

Authenticated push

```
<nativeWindowsPhone8App id="AppName" platformVersion="7.0.0.00.20150312-0731"</pre>
    version="1.0" xmlns="http://www.worklight.com/native-windowsphone8-
descriptor">
    <displayName>AppName</displayName>
    <description>AppName</description>
        <pushSender>
             <authenticatedPush serviceName="" keyAlias="" keyAliasPassword=""/>
        </pushSender>
</nativeWindowsPhone8App>
```

- Replace **serviceName** value with the service name.
- Replace **keyAlias** value with the certificate alias.
- Replace **keyAliasPassword** value with the certificate password.

For more information about using the certificate file, see the topic about setting up push notifications for Windows Phone 8, in the user documentation.

### 3. Edit the wlclient.properties file.

Edit the wlclient.properties file in your native Windows Phone 8 project and enter appropriate values for the following fields:

- wlServerHost The host name or IP address of the MobileFirst Server instance.
- wlServerPort The port on which MobileFirst Server is listening.
- wlServerContext The context root of your MobileFirst Server instance.
- wIMPNSServiceName = Add the MPNS service name for authenticated push.

```
wlServerProtocol = http
wlServerHost =
wlServerPort = 10080
wlServerContext = /EventSourceNotifications/
wlAppId = NativeWP8EventSource
wlAppVersion = 1.0
wlEnvironment = WindowsPhone8native
wlPlatformVersion = 7.0.0.0
#languagePreferences = Add locales in order of preference (e.g. fr, en, pt-BR)
wlMPNSServiceName = Add the MPNS service name for authenticated push.
```

#### 4. Modify the native Windows Phone 8 project.

Edit the Properties\WMAppManifest.xml file and add the following capabilities:

```
<Capability Name="ID CAP PUSH NOTIFICATION" />
<Capability Name="ID_CAP_IDENTITY_DEVICE" />
```

## Windows Phone 8 Push Notifications Service

No specific port needs to be open in your server configuration. MPNS uses regular http or https requests.

# **Notification Types**