

Configuring a native Windows Phone 8 application with the MobileFirst Platform SDK

Overview

To serve a native Windows Phone 8 (Silverlight) application, MobileFirst Server must be aware of it. For this purpose, IBM MobileFirst Platform Foundation provides a Native API library, which contains a set of APIs and configuration files.

This tutorial explains how to generate the Windows Phone 8 Native API and how to integrate it with a native Windows Phone 8 (Silverlight) application. These steps are necessary for you to be able to use it later on for tasks such as connecting to MobileFirst Server, invoking adapter procedures, implementing authentication methods, and so on.

Prerequisite: Developers are expected to be proficient with Microsoft developer tools.

This tutorial covers the following topics:

- Creating a MobileFirst native API
- The `wlclient.properties` file
- Creating and configuring a Windows Phone 8 native application(Silverlight)
- Tutorials to follow next

Creating a MobileFirst native API

CLI

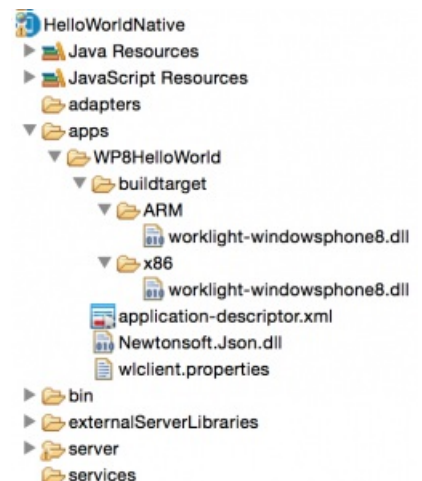
1. In the terminal with the CLI (`../advanced-client-side-development/using-cli-to-create-build-and-manage-mobilefirst-project-artifacts/`) installed, create a new MobileFirst project using: `$ mfp create HelloWorldNative`.
2. Go to the newly created project directory: `$ cd HelloWorldNative/`.
3. Add a new Windows Phone 8 native API using `$ mfp add api WP8HelloWorld -e windowsphone8`.
4. Navigate into the native API folder and run the command: `$ mfp push`. *This action is required for MobileFirst Server to recognize the application if it attempts to connect.*

Studio

1. In MobileFirst Studio, create a MobileFirst project and add a MobileFirst Native API.
2. In the **New MobileFirst Native API** dialog, enter your application name and select **Windows Phone Silverlight 8** for the **Environment** field.
3. Right-click the generated NativeAPI folder (located in `your-projects/apps/your-nativeapi-app-name`) and select **Run As > Deploy Native API**.
Note: This action is required for MobileFirst Server to recognize the application if it attempts to connect.

The MobileFirst native API contains several components:

- The `worklight-windowsphone8.dll` file is a MobileFirst API library that you must copy to your native WP8 project. This can be found in "buildtarget" folder under the respective hardware architecture.
- The `Newtonsoft.Json.dll` file is a library that provides JSON support.
- The `application-descriptor.xml` file defines application metadata and security settings that MobileFirst Server enforces.
- The `wlclient.properties` file contains connectivity settings that a native Windows Phone 8 Silverlight application uses. You must copy this file to your native Windows Phone 8 Silverlight project.
- As with any MobileFirst project, you create the server configuration by modifying the files that are in the `server\conf` folder.



The wlclient.properties file

You can edit the `wlclient.properties` file to set connectivity information.

- `wlServerProtocol` – The communication protocol to MobileFirst Server, which is either `http` or `https`.
- `wlServerHost` – The host name of the MobileFirst Server instance.
- `wlServerPort` – The port of the MobileFirst Server instance.
- `wlServerContext` – The context root path of the application on MobileFirst Server.

- ## Creating and configuring a Windows Phone 8 native application

- For more information, see the topic about developing native C# applications for Windows Phone 8, in the user documentation.

Now that your application contains the Native API library, you can follow the tutorials in the [Native WP8 Development \(../windows-phone-8-tutorials/\)](#) section to learn more about authentication and security, server-side development, advanced client-side development, notifications and more.

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