Application Authenticity Protection in Hybrid applications

This tutorial is a continuation of the Application Authenticity Protection (../) tutorial.

The application-descriptor.xml file

Add the `securityTest` attribute to the relevant environment element. For example:

```
<iphone bundleId="com.worklight.MyBankApp" applicationId="MyBankApp" securityTest="customTests"
version="1.0">
```

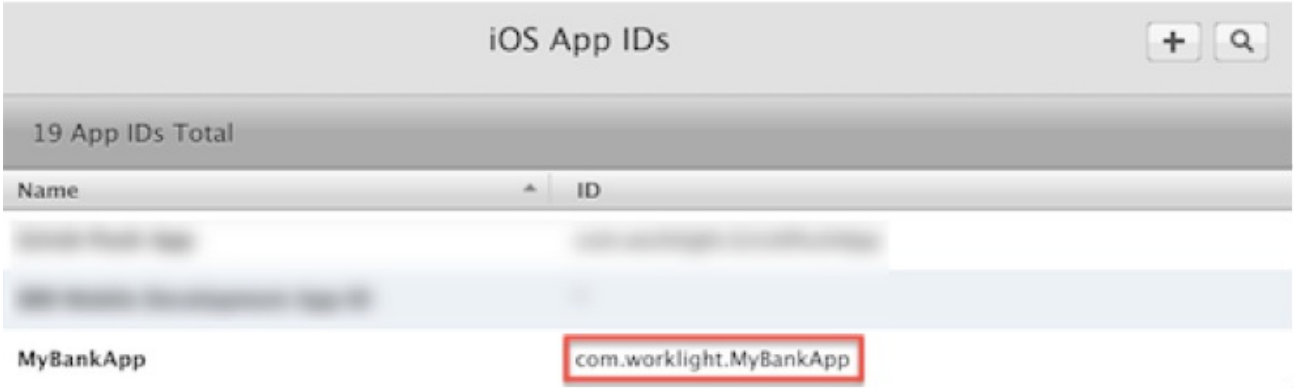
Next, you must make modifications that are specific to each environment.

iOS

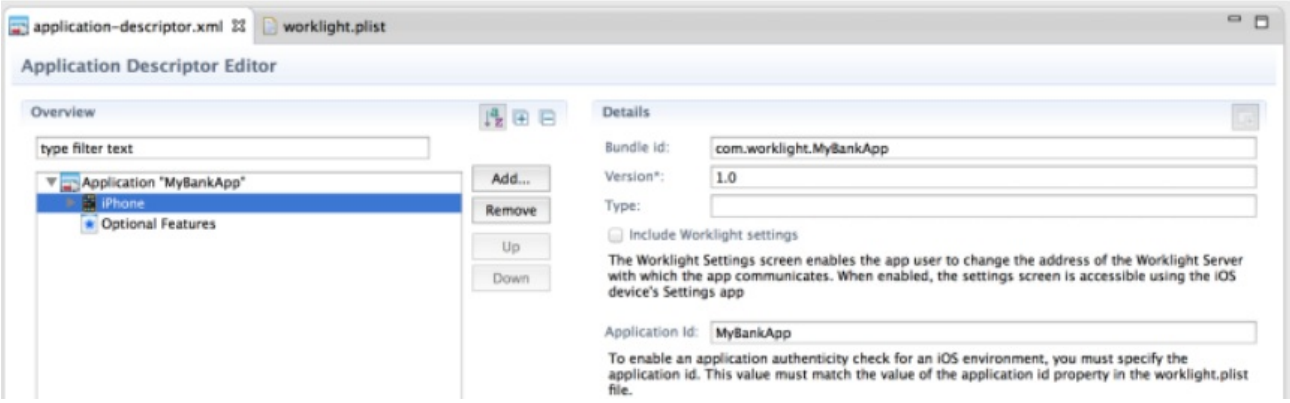
To enable application authenticity protection check for the iPhone/iPad environment, specify the following identifiers in the `application-descriptor.xml` file.

Specifying the `bundleId` and `applicationId` identifiers

1. Specify the `bundleId` value of the application exactly as it is defined in the **Apple Developer portal**.



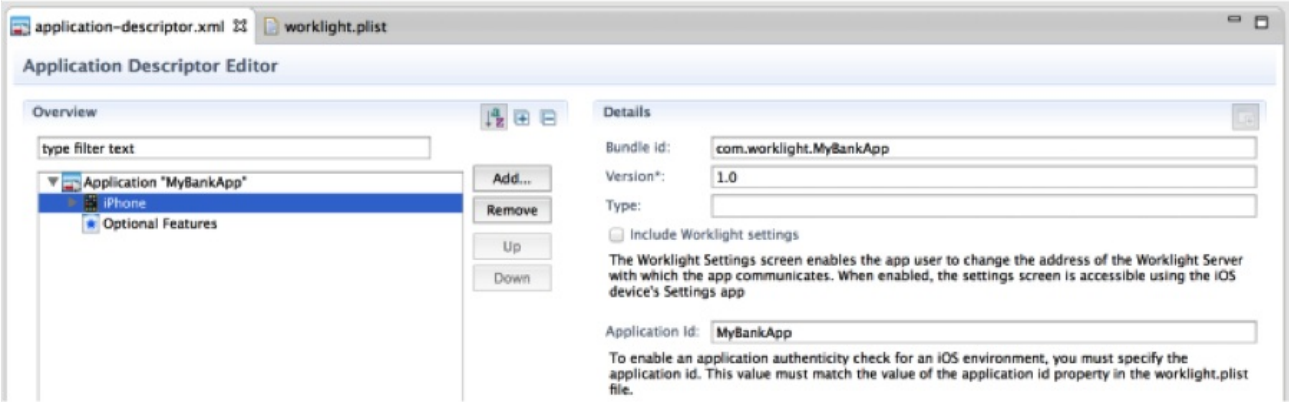
You can add the value either in the Application Description Design view:



Or in the Application Descriptor Source view:

```
<iphone bundleId="com.worklight.MyBankApp" version="1.0">
```

2. Specify the `applicationId` value. The application identifier must match the value of the `application id` property, which is located in the `native\worklight.plist` file. You can add the value either in the Application Description Design view:



Or in the Application Descriptor Source view:

```
<iphone bundleId="com.worklight.MyBankApp" applicationId="MyBankApp" securityTest="custom
Tests" version="1.0">
```

3. In Xcode, verify that the following value exists in the **Other Linker Flags** field: `-ObjC`

Android

To enable application authenticity protection check for the Android hybrid environment, follow these steps:

1. Extract the public signing key of the certificate that is used to sign application bundle (`.apk` file).
   - If the application is built for distribution (production), extract the public key from the certificate that is used to sign the production-ready application.
   - If the application is built in the development environment, you can use the default public key that is supplied by the Android SDK. You can find the development certificate in a keystore that is in a `{user-home}/.android/debug.keystore` file.
   - You can extract the public signing key either manually or by using the wizard that MobileFirst Studio provides.

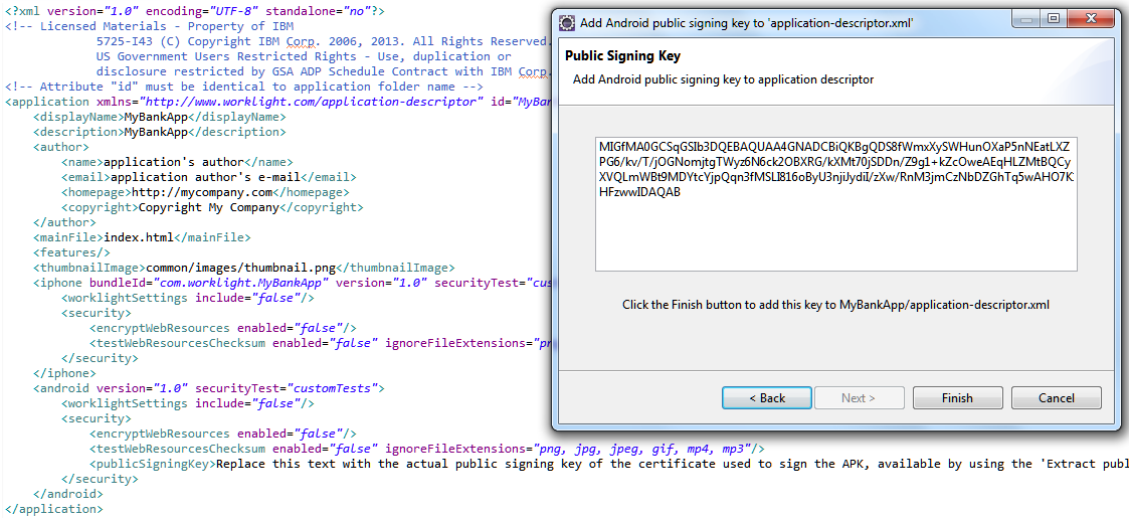
     ### Extracting the public signing key by using the wizard (Eclipse)

     If you are using Android Studio - look here (http://developer.android.com/tools/publishing/app-signing.html) for information about how to sign your Android application.

     The following instructions are for Eclipse:

     1. Right-click the Android environment folder and select **Extract public signing key**.
     2. Specify the location and the password of a keystore file and click **Load Keystore**.
        The default password for **debug.keystore** is `android`.

3. Set the **Key alias** and click **Next**.
   A dialog displays the public key.
4. Click **Finish**. The public key is automatically pasted to the relevant section of the `application-descriptor.xml` file.



5. Add the Application package name by using the Application Descriptor Editor (design view):

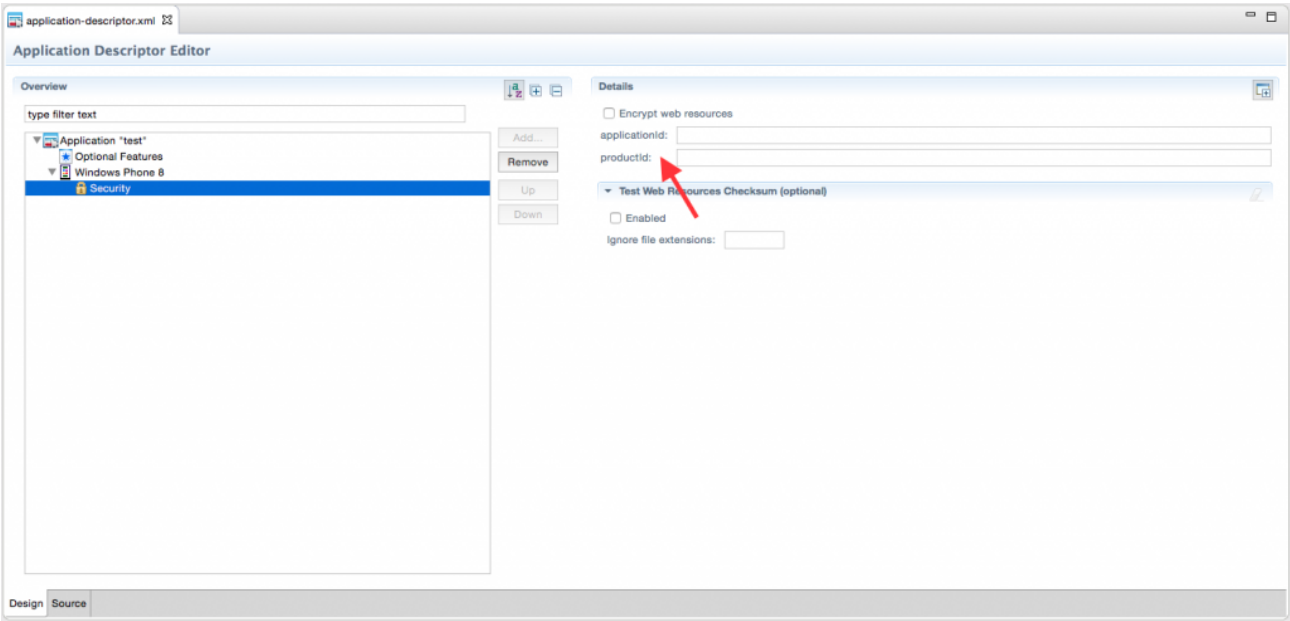
6. Take the value of the application package name from the package attribute of the *manifest* node in the `AndroidManifest.xml` file.
   If you decide to change the value, make sure that you change it in both locations. You can also directly edit the `application-descriptor.xml` file and add a package name.

```
<android version="1.0">
    <worklightSettings include="false"/>
    <security>
      <encryptWebResources enabled="false"/>
      <testWebResourcesChecksum enabled="false" ignoreFileExtensions="pn
g, jpg, jpeg, gif, mp4, mp3"/>
      <publicSigningKey>MIGff ...</publicSigningKey>
      <packageName>com.MyBankApp</packageName>
    </security>
</android>
```

Windows Phone 8 - Silverlight

To enable application authenticity check for the Windows Phone 8 hybrid environment, modify the `application-descriptor.xml` file as follows.

- In the Application Descriptor Design view, supply the `applicationId` and `productId` in the Windows Phone 8 Security section:



  You can find the `productId` value in the `native\PropertiesWMAppManifest.xml` file. The `applicationId` value must match the value of the `wlAppId` property, which you can find in the `native\wlclient.properties` file.

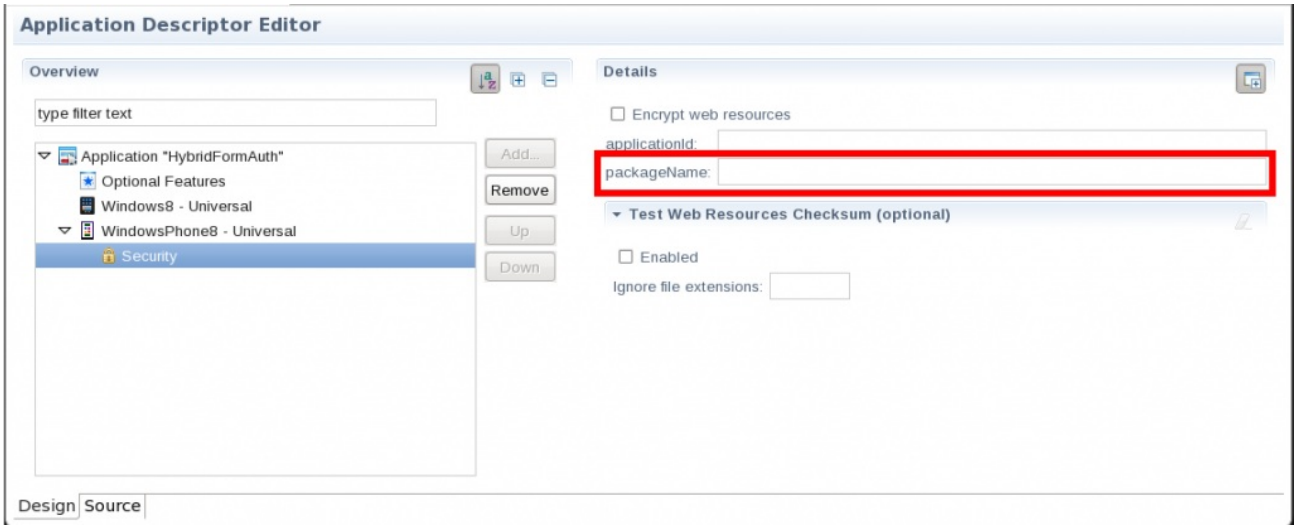
- You can also supply these values in the Application Descriptor Source view. For example:

```
<windowsPhone8 version="1.0">
   <uuid>b5542877-7afe-4edc-a817-5341b5027633</uuid>
   <security>
      <productId>fca81480-7b4a-4ed0-b387-178e8fa0c3d5</productId
>
      <applicationId>HelloWorld</applicationId>
   </security>
</windowsPhone8>
```

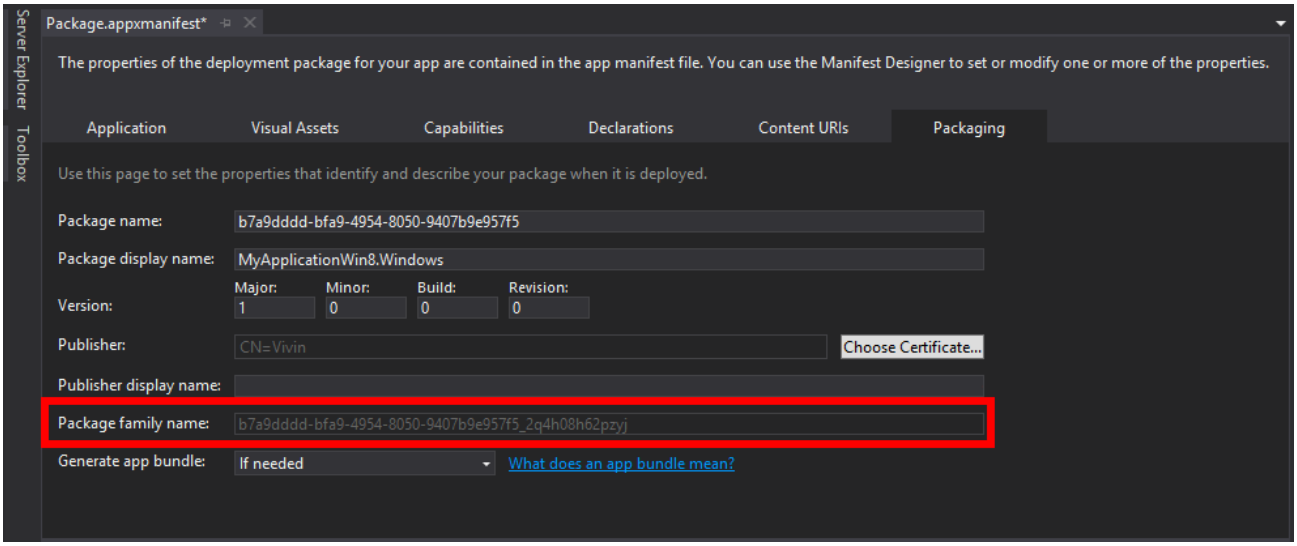
Windows 8 - Universal

To enable application authenticity check for the Windows 8 Hybrid Universal applications, modify the `application-descriptor.xml` file as follows.

- Add the `packageName` attribute to the Windows / Windows Phone environment element:



- You can also supply the values in the Application Descriptor Source view. For example:

```
<windowsphoneuniversal version="1.0">
   <uuid>3b081db3-9b9e-44c4-b7c0-1f09b067ce98</uuid
>
   <security>
    <packageName></packageName>
   </security><
</windowsphoneuniversal>
```

- You can find the `packageName` value in the `native project\environment(Win8 or WinPh8)\package.appxmanifest` file: