

# Application Authenticity Protection in Native Android applications

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

## Adding required files

From the MobileFirst project's Native API folder, copy the following folders to your native's project lib folder: armabi, armabi-v7a, mips, x86.

## The application-descriptor.xml file

Modify the application-descriptor.xml file of your application by adding a security test and a public signing key.

## Adding the security test

Add the securityTest attribute to the Android environment element. For example:

```
<android version="1.0" securityTest="MyCustomAuthenticityTest">
```

## Adding the public signing key

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.

*For more information about how to sign your Android application lookhere (<http://developer.android.com/tools/publishing/app-signing.html>).*

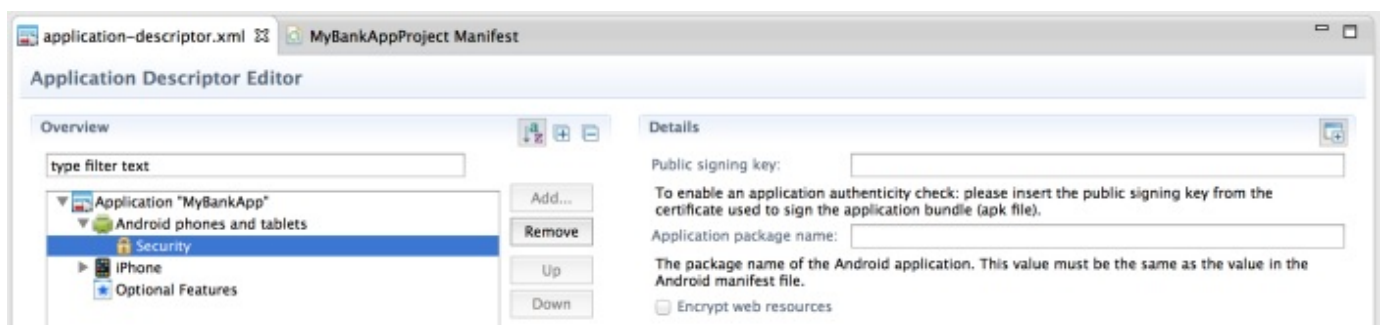
## Extracting the public signing key by using the wizard (Eclipse)

1. Right-click the Android NativeAPI 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.

- Click **Finish** to automatically paste the public signing key to the relevant section of the `application-descriptor.xml` file.



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



- Take the Application package name value from the package attribute of the `manifest` node in the `AndroidManifest.xml`.

If you decide to change the value, make sure that you change it in both locations.

You can also edit the `application-descriptor.xml` file directly to add the package name:

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