Oracle® Fusion Middleware

Deploying a Signed Android Application to the Enterprise using Oracle® Business Intelligence Mobile Security Toolkit

12*c* Release 1

E92653-02

September 2018

Deploying a Signed Android Application to the Enterprise using Oracle BI Mobile Security Toolkit

As of August 2018, Oracle Business Intelligence Mobile (Oracle BI Mobile) for Android supports AppConfig, a community focused on providing tools and best practices for native capabilities in mobile operating systems. AppConfig enables a more consistent, open, and simple way to configure and secure mobile apps to increase mobile adoption in business.

For details on AppConfig, see Oracle BI Mobile Security Toolkit Downloads.

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Audience

The intended audience for these instructions is the developer or MDM (Mobile Device Management) expert who is familiar with Google's signing and deployment process and who is also familiar with the details of deploying an application with a selected MDM vendor.

About the Security Toolkit for Oracle Business Intelligence Mobile

If your enterprise is working with a Mobile Device Management (MDM) vendor or a Mobile Application Management (MAM) vendor, then use this document to prepare the Oracle BI Mobile application for enterprise deployment. This document shows you how to create a wrapped mobile app from Oracle BI Mobile.

The Oracle Business Intelligence Mobile Security Toolkit (Oracle BI Mobile Security Toolkit) provides the ability to generate a signed version of the Oracle BI Mobile for Android application. The toolkit includes the APK file and details for re-signing and repackaging the APK for “wrapping” with an appropriate MDM vendor.

How Are Updates to Oracle BI Mobile and the Oracle BI Mobile Security Toolkit Delivered?

You update your Oracle BI Mobile application through the Google Play Store or through the Oracle BI Mobile Security Toolkit.

The Oracle BI Mobile Security Toolkit is updated on a regular basis in order to synchronize with the Oracle BI Mobile application available on the Google Play Store. Oracle BI Mobile Security Toolkit updates are delivered in alignment with the releases of the Oracle BI Mobile application. As these updates are provided on an on-going basis, users must periodically update their Oracle BI Mobile applications—either through the Google Play Store or through the Oracle BI Mobile Security Toolkit.

> **Note:**
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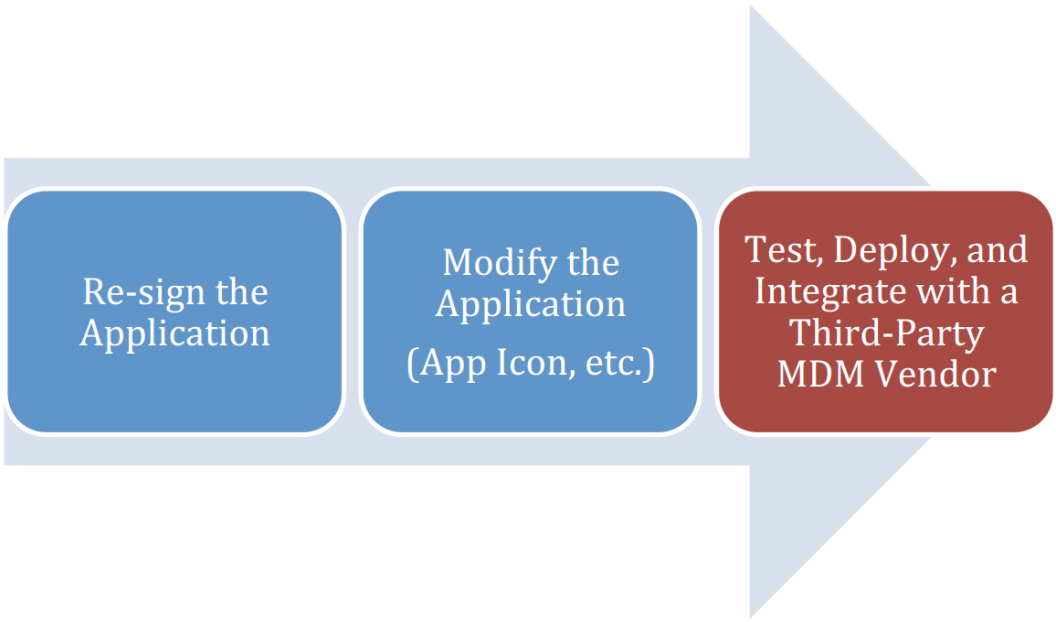
> Whether you update your application through the Play Store or through the Oracle BI Mobile Security Toolkit, the ability to provide incremental updates is not supported. For updates accessed through Google Play Store, your installed application is replaced with the latest version available. For updates through the Oracle BI Mobile Security Toolkit, a completely new package of support files and libraries is provided.

Overview of Creating an Application

This topic describes the high-level process of creating an application for deployment in your organization's enterprise application store.

The first two steps in this process are documented in detail; the final step requires you to work with your IT department, the team in charge of your enterprise distribution, and your MDM vendor. This final step will vary from organization to organization.



Re-Sign the Application

You must re-sign the application with a proper certificate for your organization. If you do not re-sign the application, you run the risk of your toolkit-installed Oracle BI Mobile application being updated with a version from the Google Play Store.

When signing any Android application, first make sure you have a working knowledge of the Android signing process.

There are many techniques for re-signing an APK file. You should follow the technique recommended by your MDM vendor or a technique that is familiar to you.

> **Note:**
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> Oracle does not provide any specific tools for re-signing.

Modify the Application

You can modify the application for things like application name or launch icon.

Use an APK tool provided by your Mobile Device Management (MDM) vendor or one that is familiar to you.

When making modifications to resources, you should be familiar with the requirements for that specific resource. For example, if you plan to change the launch icon, then you must be familiar with Android guidelines for icons.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

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