

# Oracle® Retail Store Operations Cloud Service

## Mobile Guide



Release 23.1.101.0

F74346-03

March 2023

The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Oracle Retail Store Operations Cloud Service Mobile Guide, Release 23.1.101.0

F74346-03

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# Preface

This guide describes the requirements and procedures to install this Oracle Retail Store Operations Cloud Service (SOCS) Mobile release.

## Audience

This Guide is for the following audiences:

- System administrators and operations personnel
- Database administrators
- System analysts and programmers
- Integrators and implementation staff personnel

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## Related Documents

For more information, see the following documents in the Oracle Retail Store Operations Cloud Service Mobile Installation Guide Release 23.1.101.0 documentation set:

- *Oracle Retail Store Inventory Operations Cloud Services Release Notes*
- *Oracle Retail Store Inventory Operations Cloud Services Implementation Guide*
- *Oracle Retail Store Inventory Operations Cloud Services Data Model*
- *Oracle Retail Enterprise Inventory Cloud Service Administration Guide*
- *Oracle Retail Enterprise Inventory Cloud Service Security Guide*
- *Oracle Retail Enterprise Inventory Cloud Service User Guide*
- *Oracle Retail Store Operations Cloud Service User Guide*

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## Conventions

The following text conventions are used in this document:

Convention	Meaning
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

# 1

## Preinstallation Details

### Technical Concepts

The installer should understand the following technical concepts:

- JDeveloper
- Application servers
- XML manipulation
- Apple Enterprise Development setup, provisioning, and deployment
- Xcode
- Android SDK Tools, Platform-tools, Build-tools and Deployment
- Windows 10
- Certificates management (generating keystores, import/exporting certs)

### Technical Specifications

#### MAF 2.6.5 Runtime Support and Certification Matrix

**Table 1-1 Runtime Support and Certification Matrix**

Mobile Operating System	Version	MAF Supported Devices
Android	10.x	Any device running Android 10.0 or above with Minimum 1 GHz processor / 1 GHz Dual Core or better (Recommended) and at least 1 GB of total RAM.
Android	9.x	Any device running Android 9.0 or above with Minimum 1 GHz processor / 1 GHz Dual Core or better (Recommended) and at least 1 GB of total RAM.
Android	8.x	Any device running Android 8.0 or above with Minimum 1 GHz processor / 1 GHz Dual Core or better (Recommended) and at least 1 GB of total RAM.
Android	7.x	Any device running Android 7.0 or above with Minimum 1 GHz processor / 1 GHz Dual Core or better (Recommended) and at least 1 GB of total RAM.
Android	6.x	Any device running Android 6.0 or above with Minimum 1 GHz processor / 1 GHz Dual Core or better (Recommended) and at least 1 GB of total RAM.



**Table 1-1 (Cont.) Runtime Support and Certification Matrix**

<b>Mobile Operating System</b>	<b>Version</b>	<b>MAF Supported Devices</b>
iOS	10.15 (Catalina)	All Devices
iOS	10.14.4 (Mojave)	All Devices
Windows	10	Any tablet or desktop running Windows 10 Version 1511 (November 2015 release) or later, with Intel processor. Note: Only side-loading is supported, MAF apps cannot be uploaded to the Windows Store.

For more information on build time support, see the Oracle Mobile Application Framework Certification Matrix at:

<https://www.oracle.com/application-development/technologies/maf/v265certification-matrix.html>

# 2

## Installing and Setting up the Application

This chapter describes how to install and configure JDeveloper and Oracle Store Operations Cloud Service (SOCS) for deployment onto an iOS or Android or Windows 10 device.

- [Prerequisites](#)
- [Installer Artifacts](#)
- [Installing the MAF Extension](#)
- [Configuring JDeveloper for iOS Deployment](#)
- [Configuring JDeveloper for Android Deployment](#)
- [Configuring JDeveloper for Windows 10 Deployment](#)
- [Creating a Workspace from the Archive](#)
- [Configuring Application Settings](#)
- [Configuration Service Setup](#)
- [No Configuration Service Setup – Application Ready for Use](#)
- [Navigation Configuration](#)
- [Customizing Application Branding](#)
- [Customizing Application Skins](#)
- [Customizing String Resources](#)
- [Resource Bundles](#)
- [Configuring Application for iOS Deployment](#)
- [Deploying Application to Distribution Package to Generate .apk File](#)
- [Android Scanning Support](#)
- [Configuring Application for Windows 10 Deployment](#)
- [Deploying Application to Windows](#)
- [Details on Item Images](#)

### Prerequisites

#### JDeveloper

Deploying Oracle Store Operations Cloud Service (SOCS) requires JDeveloper 12.2.1.3.

<https://www.oracle.com/tools/downloads/jdev-v12213-downloads.html>

#### Mobile Application Archive File

Mobile Application Archive file .maa can be downloaded from <https://edelivery.oracle.com> for the appropriate version of Store Operations Cloud Service (SOCS).

### iOS Platform

Deploying Oracle SOCS for use on an iOS device requires that you have a computer running Mac OS X set up for iOS development. For more information on the setup, including provisioning profiles and certificates. Refer to Apple's documentation at <https://developer.apple.com/>.

Additionally, you must have installed JDeveloper, Xcode and Oracle MAF extension.

Also refer to *Oracle Mobile Application Framework* documentation for [Setting Up Development Tools for the iOS Platform](#).

### Android Platform

Deploying Oracle SOCS for use on an Android device requires that you have a computer that has the Android SDK installed.

Additionally, you must have installed JDeveloper and Oracle MAF extension.

Also refer *Oracle Mobile Application Framework* documentation for [Setting Up Development Tools for the Android Platform](#).

### Universal Windows Platform (UWP)

Deploying Oracle SOCS for use onto a Windows 10 personal computer or tablet requires that your computer has Microsoft Visual Studio installed.

Additionally, you must have installed JDeveloper and Oracle MAF extension.

Also refer *Oracle Mobile Application Framework* documentation for [Setting Up Development Tools for the Universal Windows Platform](#).

## Platform Specific Requirements

Build Time Support (SDK & build tool versions)

Mobile Platform	Mobile SDK Version	Native Development Tools Version
Android	Android 10.0 (API 29)	Minimum versions: Android SDK Tools 23, Platform-tools 27, Build-tools 27. If your MAF application uses a third-party Cordova plugin and the plugin uses native libraries for Android, ensure that the plugin also supports the 64-bit architecture for Android.
iOS	iOS SDK 14.x	Xcode 12.x Provisioning files and certificates For more Apple documentation see: <a href="https://developer.apple.com/">https://developer.apple.com/</a> .
Windows	Windows 10 SDK (10.0.10586.0) and Windows 10 SDK 10.0.14393	Visual Studio 2015 or Visual Studio 2017 (Enterprise, Professional or Community version) .pfx file created and installed

## Installer Artifacts

File	Contents
maf-2.6500.20211202-0031.zip	This is the MAF extension that must be installed in JDeveloper (see <a href="#">Installing the MAF Extension</a> below). MAF extension for JDeveloper can be found here: <a href="https://www.oracle.com/webfolder/technetwork/jdeveloper/downloads/1213center.xml#oracle.maf">https://www.oracle.com/webfolder/technetwork/jdeveloper/downloads/1213center.xml#oracle.maf</a> .
OracleSocsArchive.maa	The main SOCS application archive. (Required to install or customize Oracle SOCS)

## Installing the MAF Extension

To install the MAF extension on already installed JDeveloper, see [Installing Mobile Application Framework with JDeveloper](#)

When you reach "Installing the MAF Extension in JDeveloper", click the **Install from Local File** radio button and then locate and select the maf-2.6500.20211202-0031.zip file (from [Installer Artifacts](#) above). Then skip to step 5.

## Configuring JDeveloper for iOS Deployment

To configure your environment for the iOS platform:

1. Ensure Xcode and iOS SDK are installed.
2. In JDeveloper, click **Tools**, and then click **Preferences**.
3. In the Preferences dialog, click **Mobile Application Framework** and then click **iOS Platform**.
4. Enter the signing information and export options.

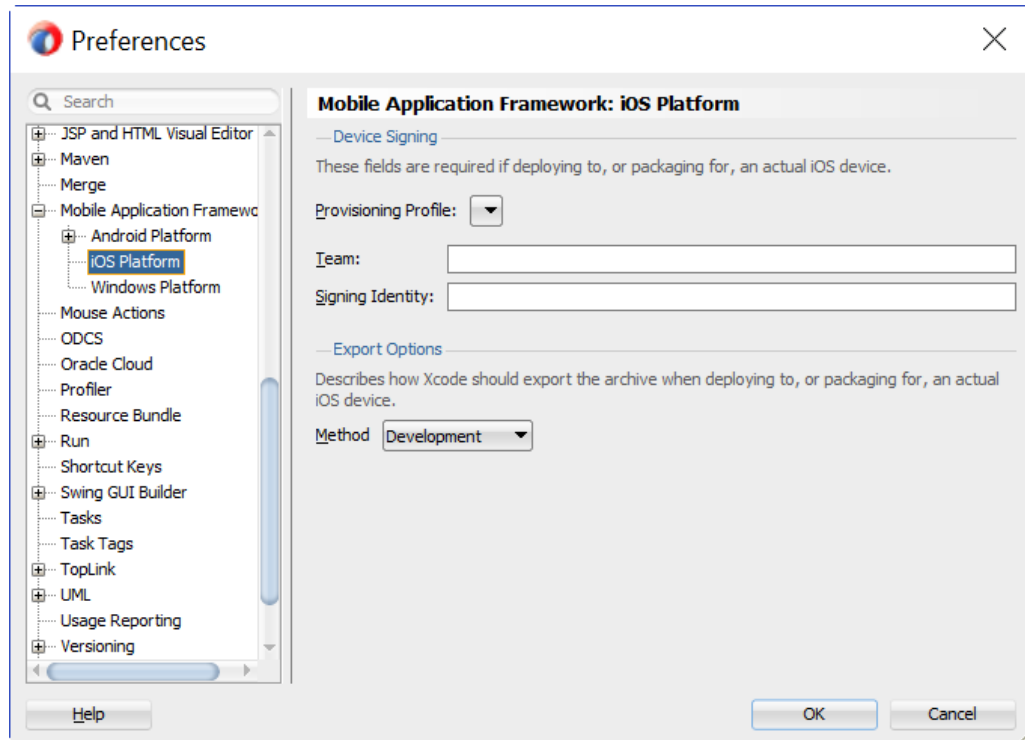
For more information, see [How to Set Device Signing and Export Options](#) in *Developing Mobile Applications with Oracle Mobile Application Framework*.

### Note:

Customers must use their own provisioning profile and signing identity to distribute the application. And Export Option method should be selected as for Release.

5. In the first box, use the browse button to select the **Automatically Add to iTunes** directory.
6. Select the **Provisioning Profile** from the drop-down list.
7. Enter the name of the signing identity corresponding to your development certificate.

Figure 2-1 Device Signing and Export Options of the iOS Platform Preferences



## Configuring JDeveloper for Android Deployment

To configure your environment for the Android platform:

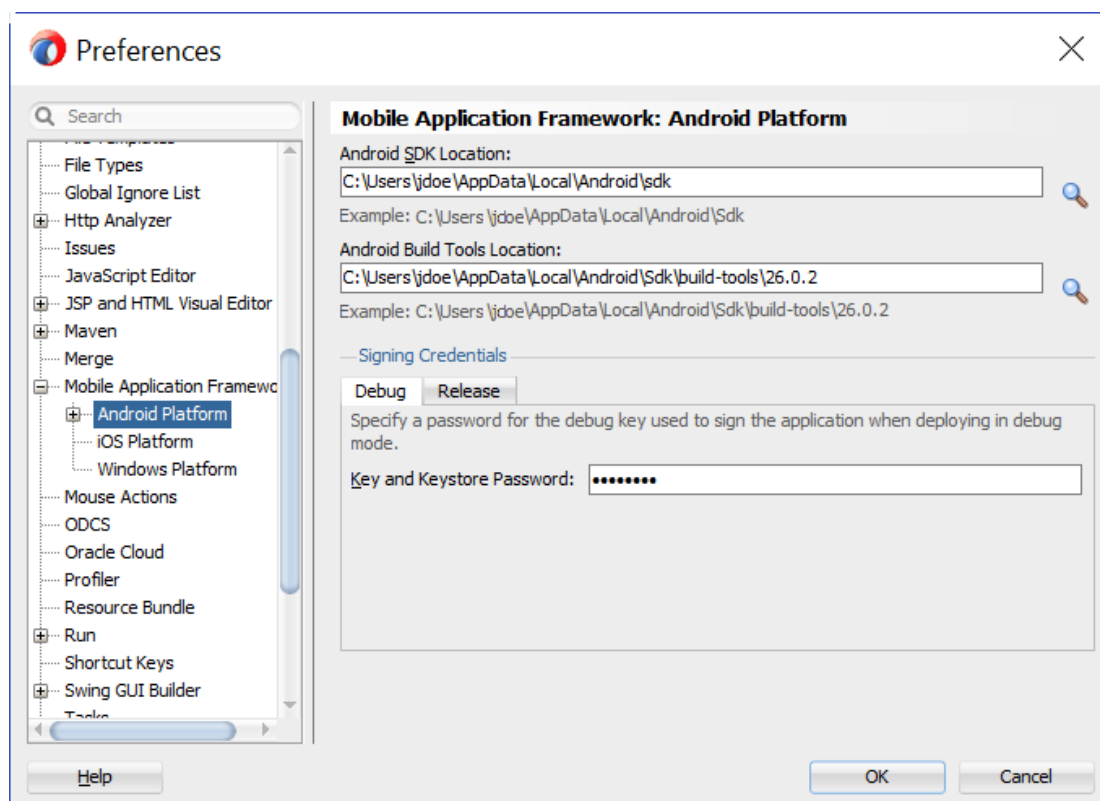
1. Ensure the Android SDK is installed.
2. In JDeveloper, click **Tools**, and then click **Preferences**.
3. In the Preferences dialog, click **Mobile Application Framework**, and then click **Android Platform**.
4. Specify the location of the Android SDK on your computer.
5. Specify the location of the Android build tools on your computer.
6. Provide information on the signing credentials.

For more information about creating a key and keystore, see [How to Sign a MAF Application that You Deploy to the Android Platform](#) in *Developing Mobile Applications with Oracle Mobile Application Framework*.

### Note:

For performance reasons it is recommended to use Release in **Signing Credentials** section unless the intent is to debug the application.

Figure 2-2 Configuring Platform Preferences for Android



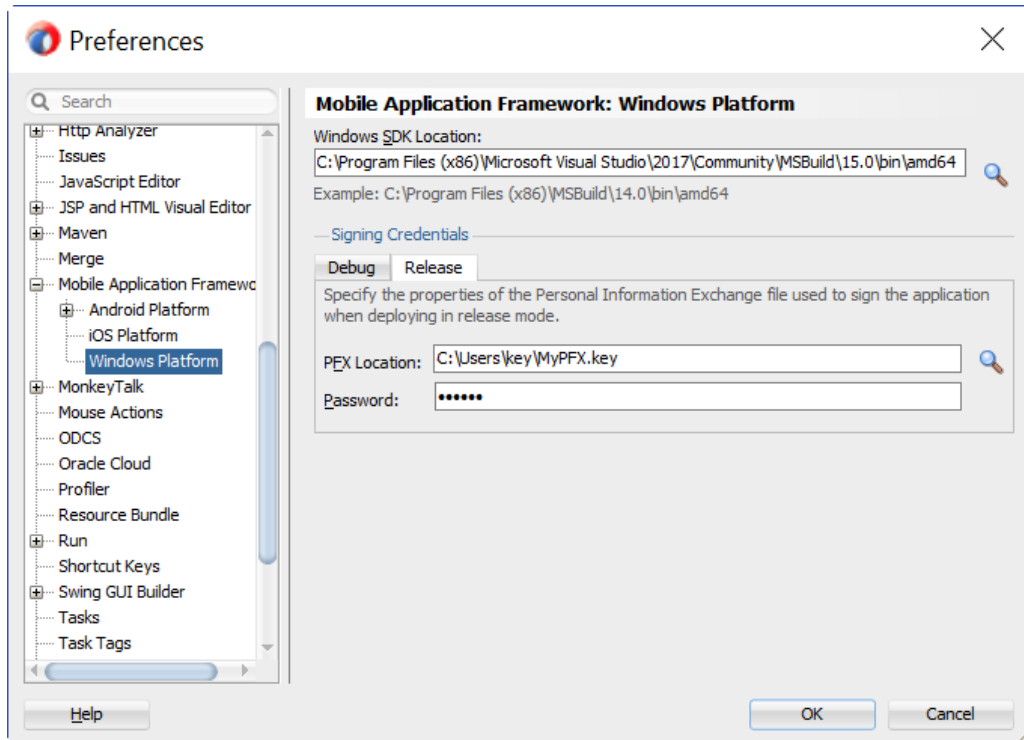
## Configuring JDeveloper for Windows 10 Deployment

To configure your environment for the UWP platform:

1. Ensure the needed Windows SDKs are installed when installing Microsoft Visual Studio 2017.
2. In JDeveloper, click **Tools**, and then click **Preferences**.
3. In the Preferences dialog, click **Mobile Application Framework**, and then click **Windows Platform**.
4. Specify the location of the Windows SDK files (MSBuild version 15.0).
5. Provide the certificate (PFX file) location and password.

You can use the same PFX file to run your application in the Release and Debug modes on your computer. We recommend that you use a certificate issued by a trusted authority, such as your internal CA, if you want to distribute your application and run it on other devices within your organization.

Figure 2-3 Configuring Platform Preferences for Windows



## Creating a Workspace from the Archive

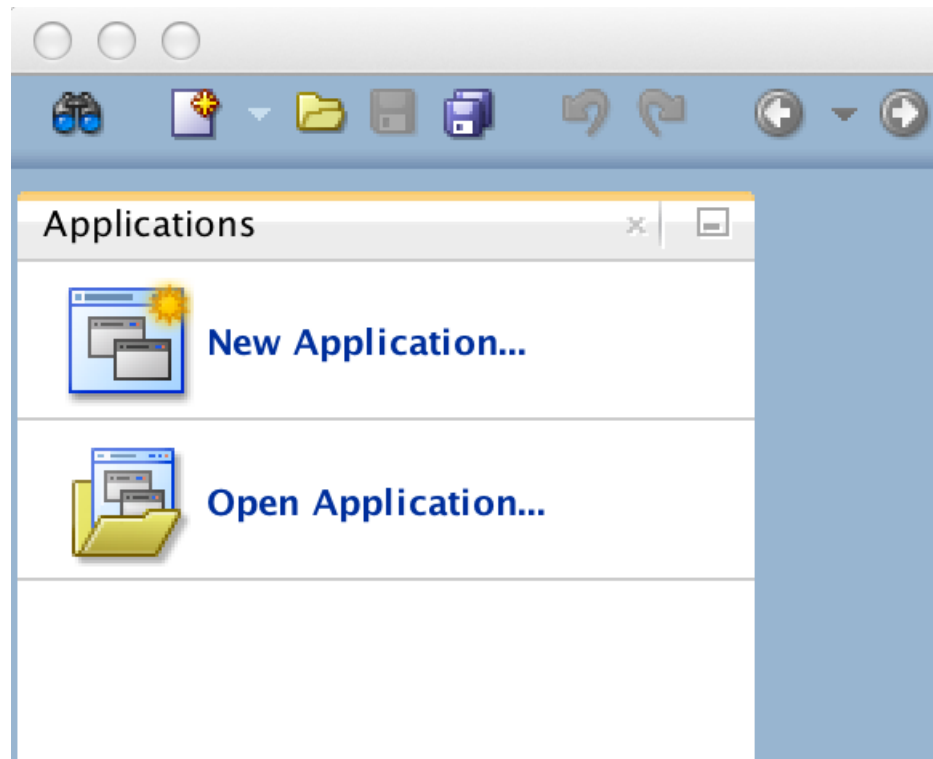
A mobile application archive (MAA) must be downloaded, then configured and built for the appropriate target operating system.

Any endpoint configuration or customization must be done prior to deployment.

When you launch JDeveloper for the first time, you will encounter an empty workspace. The first thing that must be done is to create a new application from the provided .maa file. Use the steps that follow:

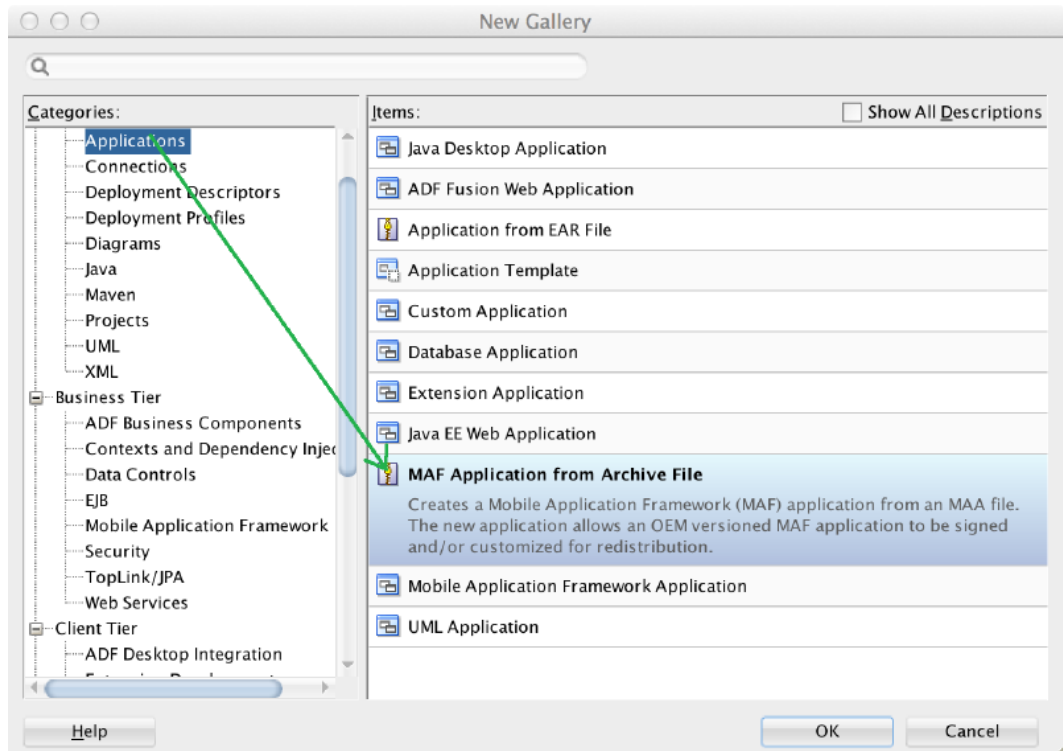
1. Open the **New Application** dialog (or open the general **New** dialog and select **Applications**).

Figure 2-4 New Application



2. Select **MAF Application** from Archive File and click **OK**.

Figure 2-5 MAF Application from Archive File





3. In the wizard that opens, select the .maa file you want to create a SOCS application from (the main Oracle SOCS app is packaged as OracleSocsArchive.maa).
4. Enter a name for your application.
5. You can also change where the application will be saved (by default, <workspace>/<application name>).
6. On the **Location** page, enter the location information, for example:
  - **MAA file:** /Users/Myuser/Desktop/OracleSocsArchive.maa
  - **Application file:** OracleSocsCustom
  - **Directory:** /Users/Myuser/jDeveloper/mywork/OracleSocsCustom
7. Click **Finish** when you have entered the necessary information.

For more information see [Creating a New Application from an Application Archive](#).

## Configuring Application Settings

This section describes the configuration that is required (and some that is optional) prior to building and deploying the Oracle SOCS application.

### Definitions of SOCS Configuration Service End Points

Configuring the application includes Configuring Service End Points mainly for allowing the application to authenticate users, connect to web services, and in certain cases, access remote images.

Feature	Connection (Type)
Configuration	ConfigServiceLogin (Login) ConfigService (URL)
Oracle SOCS	SimMobileLogin (Login) SimMobileService (URL)

The Oracle SOCS app uses Oracle IDCS (Identity Cloud Service) or Oracle Cloud Infrastructure Identity and Access Management (OCI IAM) as its identify provider (IDP) for authentication. Several URLs and IDs will need to be configured prior to deployment for successful connection to the servers. Mainly:

- **oauthClientId** - is the client id of SOCS application provisioned by Oracle.
- **security.idcs.url** - is the end point url of **IDCS** provided by Oracle.
- **deploy.mobile.server.base.url** - is the end point url of base SOCS for ConfigService.
- **deploy.mobile.server.service.url** - is the end point url of SOCS server service for SimMobileService.

Oracle SOCS is delivered with placeholder connections for each of the connections listed above. It is possible to build and install the application without updating the included connections and then use the Configuration feature to update the

connections after the application is installed on a device. For more information, see [Configuration Service Setup](#).

Another option is to update the placeholder connections with valid URLs prior to building the application so that the application is ready to run immediately after installation on a device. In either case, it is always possible to update the connections used on the device later through the Configuration feature. For more information, see [No Configuration Service Setup – Application Ready for Use](#).

**Figure 2-6 Edit MAF Login Connection.xml**

The image shows a screenshot of an IDE window titled 'connections.xml'. The window displays XML code for configuring MAF login connections. The code is structured as follows:

```
<References xmlns="http://xmlns.oracle.com/adf/jndi">
  <Reference name="ConfigServiceLogin" className="oracle.adf.model.connection.adfmf.LoginConnection"
    adfCredentialStoreKey="ConfigServiceLogin" partial="false" manageInOracleEnterpriseManager="true"
    deployable="true" xmlns="">
    <Factory className="oracle.adf.model.connection.adfmf.LoginConnectionFactory"/>
    <RefAddresses>
      <XmlRefAddr addrType="adfmfLogin">
        <Contents>
          <oauthAuthorizationGrantType value="code"/>
          <oauthClientId value="@deploy.mobile.client.oauth.client.id@"/>
          <oauthClientSecret/>
          <oauthRedirectEndpoint url="idcsmobileapp://nodata"/>
          <embeddedBrowser value="true"/>
          <oauthScopes>
            <oauthScope url="openid"/>
          </oauthScopes>
          <openIDConnectDiscoveryURL url="@security.idcs.url@/.well-known/idcs-configuration"/>
          <authenticationMode value="remote"/>
          <accessControl/>
          <userObjectFilter/>
        </Contents>
      </XmlRefAddr>
    </RefAddresses>
  </Reference>
  <Reference name="ConfigService" className="oracle.adf.model.connection.url.HTTPURLConnection"
    adfCredentialStoreKey="ConfigServiceLogin" xmlns="">
    <Factory className="oracle.adf.model.connection.url.URLConnectionFactory"/>
    <RefAddresses>
      <XmlRefAddr addrType="ConfigService">
        <Contents>
          <urlconnection name="ConfigService" url="@deploy.mobile.server.base.url@"/>
        </Contents>
      </XmlRefAddr>
    </RefAddresses>
  </Reference>
  <Reference name="SimMobileLogin" className="oracle.adf.model.connection.adfmf.LoginConnection"
    adfCredentialStoreKey="SimMobileLogin" partial="false" manageInOracleEnterpriseManager="true"
    deployable="true" xmlns="">
    <Factory className="oracle.adf.model.connection.adfmf.LoginConnectionFactory"/>
    <RefAddresses>
      <XmlRefAddr addrType="adfmfLogin">
        <Contents>
          <oauthAuthorizationGrantType value="code"/>
          <oauthClientId value="@deploy.mobile.client.oauth.client.id@"/>
          <oauthClientSecret/>
          <oauthRedirectEndpoint url="idcsmobileapp://nodata"/>
          <embeddedBrowser value="true"/>
          <oauthScopes>
            <oauthScope url="openid"/>
          </oauthScopes>
          <openIDConnectDiscoveryURL url="@security.idcs.url@/.well-known/idcs-configuration"/>
          <authenticationMode value="remote"/>
          <accessControl/>
          <userObjectFilter/>
        </Contents>
      </XmlRefAddr>
    </RefAddresses>
  </Reference>
</References>
```

For more information on accessing and configuring login connections, see [Configuring End Points Used in MAF Applications](#).

 **Note:**

These updates must be made prior to building the application and cannot be updated through the Configuration feature.

## Configuration Service Setup

If you are using the Configuration feature to update the `connections.xml` file on a mobile device after the application has been installed, it is necessary to host the `connections.xml` file at a secured location.

The hosted `connections.xml` file should contain valid URLs for all connections being used by the application (including the `ConfigService` and `ConfigServiceLogin` connections).

The `connections.xml` file must be named `connections.xml` and be located at a path that ends with the application identifier. For example, if the application identifier is `com.company.SOCS`, the `connections.xml` could be located at the following URL:

```
http://server:port/SomeLocation/com.company.socs/connections.xml
```

You need two URLs to complete the configuration process:

- **Configuration URL:** This is the base URL up to, but not including the application identifier. For example:

```
http://server:port/SomeLocation
```

 **Note:**

That this is also the value that can be pre-populated in the `ConfigService` connection.

- **Configuration Login URL:** This is a complete URL to a secured resource on the same domain as the `connections.xml` file. For example:

```
http://server:port/SomeLocation/SomeSecuredResource
```

 **Note:**

That this is also the value that can be pre-populated in the `ConfigServiceLogin` connection.

If the application is deployed with placeholder (non-valid URLs) in the `connections.xml` file and the user is required to use the Configuration feature to get valid connections, it is recommended that you configure the application to prompt the user to set up configuration on the initial launch of the application (until configuration has been completed).

To configure the application to prompt the user:

1. Locate and open the `adf-config.xml` file in JDeveloper under Application Resources / Descriptors / ADF META-INF.
2. In the source view, locate the `adf-property` tag with the name value `RETAIL_INITIAL_CONFIGURATION_REQUIRED`.
3. Change the value to true.

## No Configuration Service Setup – Application Ready for Use

If the application is deployed with placeholder (non-valid URLs) in the `connections.xml` file and Oracle provides the `connection.xml` URL for SOCS, the user can build application so that the application is ready to run immediately after installation on a device.

To configure the application with pre-defined connections:

1. Locate and open the `adf-config.xml` file in JDeveloper under Application Resources / Descriptors / ADF META-INF.
2. In the source view, locate the `adf-property` tag with the name value `RETAIL_INITIAL_CONFIGURATION_REQUIRED`.
3. Change the value to false.
4. Modify the `connection.xml` in JDeveloper or located in `<SOCS workspace>/adf/META-INF/connection.xml` by replacing the below strings:
  - a. Replace all occurrences of `@deploy.mobile.client.oauth.client.id@` with SOCS Client ID from IDCS.
  - b. Replace all occurrences of `@security.idcs.url@` with the IDCS url.
  - c. Replace `@deploy.mobile.server.base.url@` with `https://rex.retail.<Region Name>.ocs.oraclecloud.com/<Customer Subnamespace>/siocs-client-services`
  - d. Replace `@deploy.mobile.server.service.url@` with `https://rex.retail.<Region Name>.ocs.oraclecloud.com/<Customer Subnamespace>/siocs-client-services/internal`

Or just copy the `connection.xml` contents provided by Oracle and replace that with the existing contents in the `connection.xml` in JDeveloper. Or in `connection.xml` located `<SOCS workspace>/adf/META-INF/connection.xml` in the Archive file workspace created by JDeveloper.

### Note:

The `<Region Name>` and `<Customer Subnamespace>` part of the URL should be replaced with the one specific to your environment. This will be the same as your cloud service Application URL provided in the Welcome email.

# Navigation Configuration

**Note:**

There is no need to update the navigation configuration unless changes in organization, labelling, and so on are desired.

The springboard is configured by a navigation.json file in the mobile application controller project. The file has the following structure:

```
{
  menu : {
    name : <Menu Title>,
    taskFlowId : <ID of the task flow>
    permission : <permission key that controls menu visibility>
    options : [
      {
        name : <Feature group name>,
        options : [
          {
            name : <Feature name>,
            taskFlowId : <ID of the task flow>
            permission : <permission key that controls menu visibility>
            options : <Optional submenu>
          },
          ...
        ]
      },
      ...
    ]
  }
  footers : [
    {
      name : <Label for footer item>,
      featureId : <ID of feature to link to>
```

```
taskFlowId : <ID of the task flow>

},
...
]
}
```

The bundles section allows the declaration of aliases to XLIFF bundles. Translated strings can then be used for name/label with [Alias.Key], similar to the usage in AMX pages (after using loadBundle). If an alias is not declared, the full bundle path must be used instead of the alias.

The menus section begins with the root node of the hierarchy. The name of this node is displayed on the switcher page of the springboard. The nodes under it are the feature groups to display on the switcher page. Finally, the next level of nodes are the features within the group. If no name is provided, the name of the feature referenced is used. If the options property is specified, another level of feature nodes can be placed in it to form a submenu (the springboard does not support nesting submenus), and name is required in this case. Tapping on a feature item in the group or a submenu allows you to navigate to the provided feature identifier.

The footers section allows for setting up feature links that should be displayed regardless of current feature group. A feature link is included by specifying the featureId and optionally a label.

## Customizing Application Branding

The application branding consists of the application icon as shown in various contexts and the splash screens when launching the application. The application branding can be customized by replacing the icons and images that are referenced by the application.

The following steps assume that a workspace has already been created from the Oracle SOCS MAA file and that the appropriate-sized icons or images have been added to the workspace created from the MAA file:

1. Open JDeveloper in the Studio Developer role.
2. Follow the steps outlined in *Developing Mobile Applications with Oracle Mobile Application Framework* for more information on How to Add a Custom Image.

[How to Add a Custom Image to an Android Application](#)

[Adding a Custom Image to an iOS Application](#)

### Note:

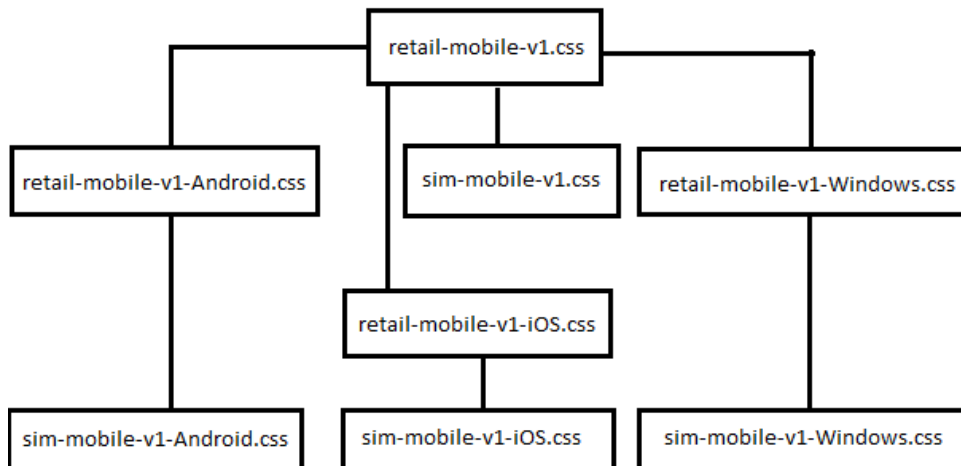
Since MDS is not aware of changes made to this image configuration, any customizations are overridden by upgrading to a newer version of Oracle SOCS.

## Customizing Application Skins

The overall look and feel of the Oracle SOCS application is controlled by a skin. Since MAF supports MDS customizations of the `maf-skins.xml` and `maf-config.xml` files, it is possible to apply a custom skin to the application. If the Oracle SOCS application is upgraded to a newer version later, the skinning customizations are still applied on top of the upgraded version by MDS.

The following steps assume that a workspace has already been created from the Oracle SOCS MAA file:

1. Open JDeveloper in the Studio Developer role.
2. Open the Oracle SOCS workspace created from the delivered MAA file.
3. The currently used skinning files for Oracle SOCS are found in the `SIMApplicationController` project, inside of the `public_html > platform > css` subdirectory. The current hierarchy of files is represented below:



4. Create a new CSS skin file in the `SIMApplicationController` project. For more information on how to create CSS skin files and how MAF skinning works, see Chapter 9, [Skinning MAF Applications](#), in *Developing Mobile Applications with Oracle Mobile Application Framework*.
5. Switch JDeveloper to the Customization Developer role by selecting the Tools menu and then Switch Roles / Customization Developer.
6. When JDeveloper has restarted in the Customization Developer role, open the `maf-skins.xml` file.
7. In the Structure Pane, right click the `adfmf-skins` node and select Insert Inside `adfmf-skins > skin`.
8. Fill in the fields in the popup. Note that the style-sheet-name should reference the CSS skin file created in Step 3.
9. If the skin should be versioned, in the Structure Pane, right click the skin element just created, and select Insert Inside skin / version.

10. Fill out the popup with the skin version information. For more details on configuring skins in maf-skins.xml, see Chapter 9, [Skinning MAF Applications](#), in *Developing Mobile Applications with Oracle Mobile Application Framework*.
11. Save the changes.
12. Open the maf-config.xml file.
13. Update the skin-family element with the name of the custom skin family that should be applied to the entire application.
14. Update the skin-version element if the custom skin was defined with a different version. If the custom skin does not have a version, remove the skin-version element.
15. Save the changes.
16. Deploy the application to iOS Simulator to verify that the new skin is being picked.

After upgrading to a new Oracle SOCS version, the custom skin changes are still applied over the base application.

## Customizing String Resources

In order to support localization, Oracle SOCS references application string resources in the XLIFF resource bundles.

Since Oracle MAF does not support MDS customizations of XLIFF resource bundles, the Customization Developer role does not allow you to make changes to the XLIFF resource bundles. Any changes made in the Studio Developer role to the XLIFF resource bundles delivered in the Oracle SOCS application are overridden when the application is upgraded at a later date, so this approach is not recommended.

In order to add custom string resources to the Oracle SOCS application in a future-proof way, you must create new resource bundles under the Studio Developer role, add strings to these new bundles, and then reference strings from these new resource bundles in customizations to AMX pages or other customizable artifacts under the Customization Developer role. For more information about this process, see [Enabling Customizations in Resource Bundles](#) in *Developing Mobile Applications with Oracle Mobile Application Framework*.

## Resource Bundles

The following table lists the resource bundles that are packaged in the Oracle SOCS MAA file:

Base XLIFF Resource Bundle	Text Resource Descriptions
OracleSOCS/.adf/META-INF/SimMobileBundle.xlf	Text resource for the application name.
OracleSOCS/SimMobileViewController/src/oracle/retail/sim/mobile/SimMobileViewControllerBundle.xlf	Text resources for the Oracle SOCS feature.
OracleSOCS/SimApplicationController/src/oracle/retail/sim/mobile/client/application/SimMobileApplicationControllerBundle.xlf	Text resources for the application names as shown on the springboard.



## Configuring Application for iOS Deployment

To configure Oracle SOCS for iOS deployment, use the following steps:

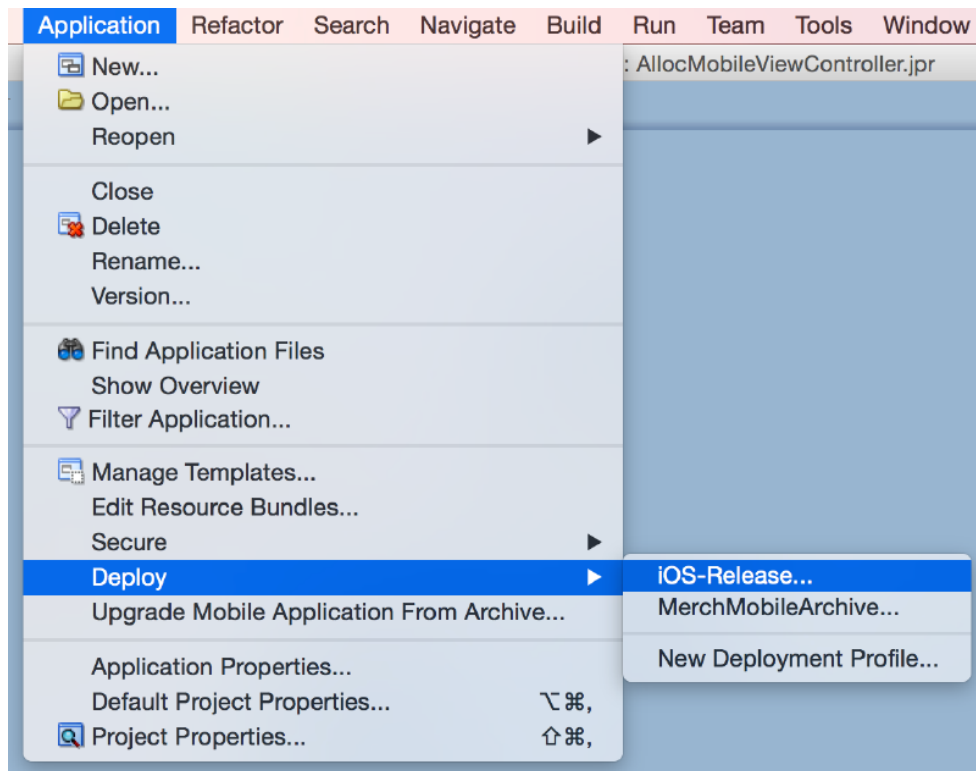
1. Open the workspace created above in [Creating a Workspace from the Archive](#).
  - a. Open the application properties (Application' Application Properties...).
  - b. Under **Deployment**, select the iOS1 deployment profile and click the pencil icon.
2. Select **iOS Options** and confirm you have the correct Application Bundle Id and Application Archive Name (for more information about application bundle ids, refer to *Oracle Fusion Middleware Developing Mobile Applications with Oracle Mobile Application Framework* documentation.)
3. Confirm that the application deploys in Release Mode.
4. Check the other settings as needed.
5. Click **OK**.

## Deploying Application to Distribution Package to Generate .ipa File

To deploy Oracle SOCS to a .ipa file, use the following steps:

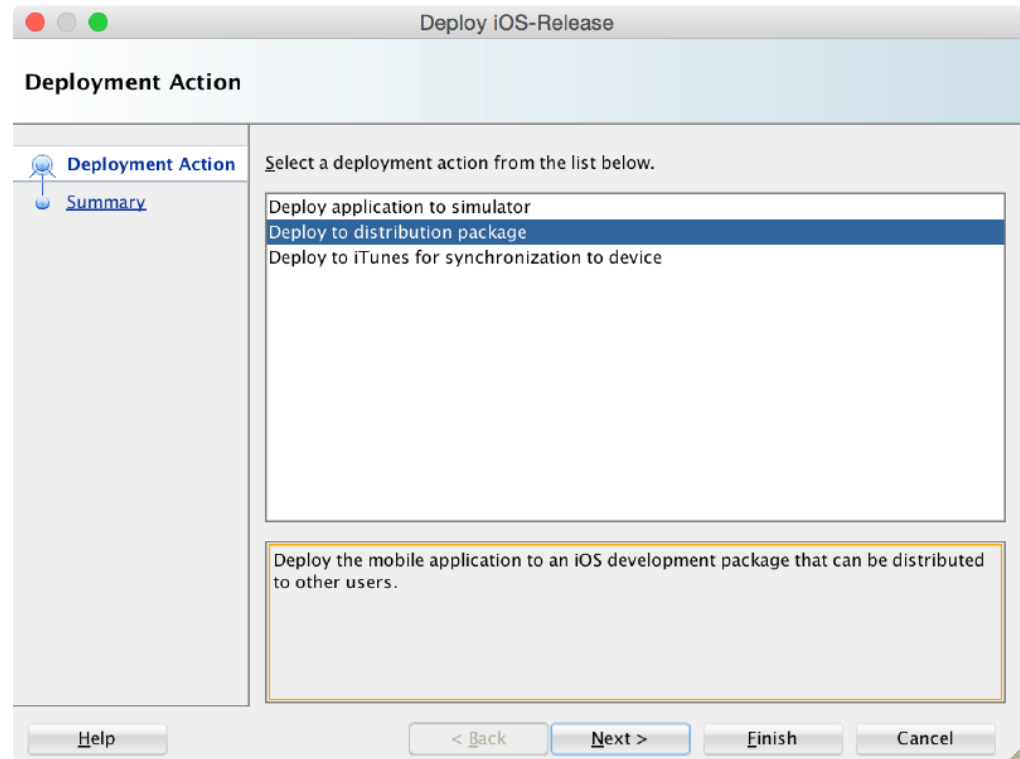
1. In the Application menu, select **Deploy/iOS-Release**.

**Figure 2-7 Deploy iOS-Release**



- a. Select **Deploy to distribution package**.
- b. Press **Finish** to begin deployment.

**Figure 2-8 Deployment Action - Deploy iOS-Release**



2. You can view the progress of the deployment by opening the Log window. (Window' Log).
3. After a successful deployment you can find the .ipa file within your workspace under the deploy folder.

For Enterprise app distribution refer to:

[https://developer.apple.com/documentation/xcode/preparing\\_your\\_app\\_for\\_distribution](https://developer.apple.com/documentation/xcode/preparing_your_app_for_distribution)

For other distribution options, see *Oracle Fusion Middleware Developing Mobile Applications with Oracle Mobile Application Framework* documentation.

 **Note:**

If Oracle SOCS is already deployed to a device, it is recommended to delete it from the device before redeploying it again.

## Configuring Application for Android Deployment

To configure Oracle SOCS for Android deployment, use the following steps:

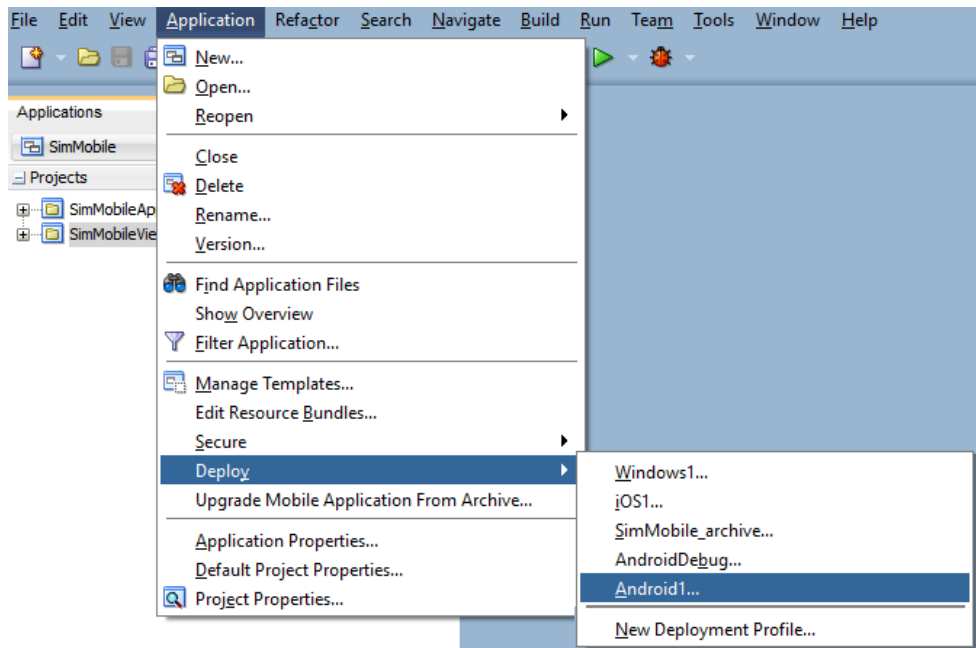
1. Open the workspace created above in [Creating a Workspace from the Archive](#).
  - a. Open the application properties (Application ' Application Properties...).
  - b. Under Deployment, select the Android1 deployment profile and click the pencil icon.
2. Select **Android Options** and confirm you have the correct Android settings.
3. Confirm that the application deploys in Release Mode.
4. If you wish to change Android application settings, do so in the subsections Application Details and Application Images.
5. Check the other settings as needed.
6. Click **OK**.

## Deploying Application to Distribution Package to Generate .apk File

To deploy Oracle SOCS to a .apk file, use the following steps:

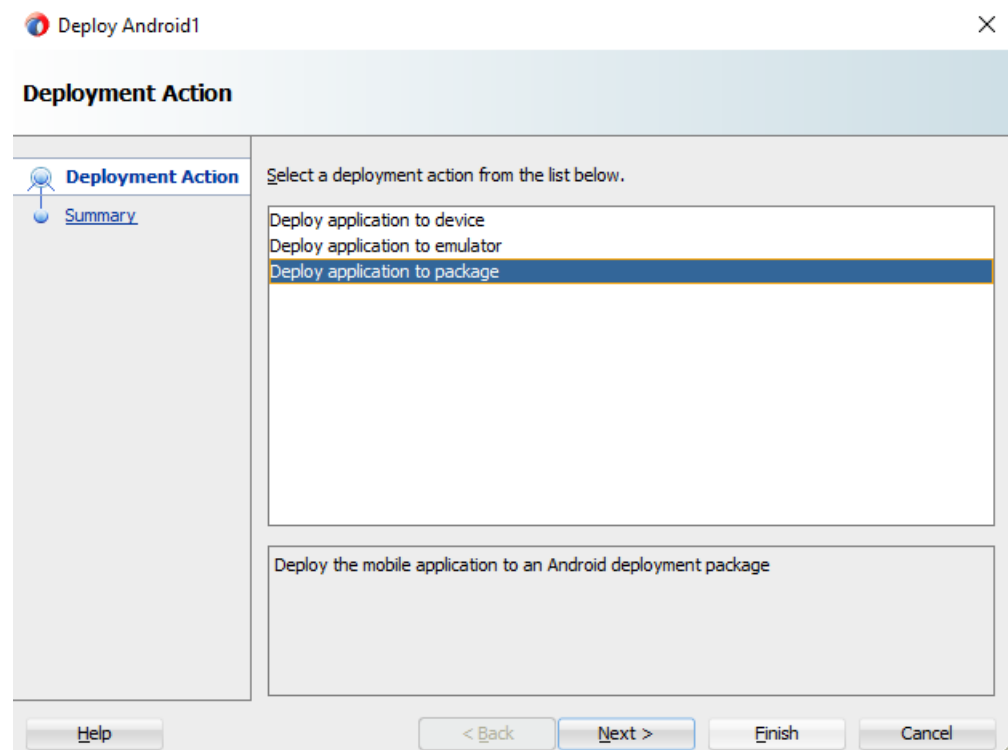
1. In the Application menu, select **Deploy/Android1**.

**Figure 2-9 Deploy - Android1**



- a. Select **Deploy Application to package**.
- b. Press **Finish** to begin deployment.

Figure 2-10 Deployment Action - Deploy Android



2. You can view the progress of the deployment by opening the Log window. (Window' Log)
3. After a successful deployment you can find the .apk file within your workspace under the deploy folder.

 **Note:**

If Oracle SOCS is already deployed to a device, it is recommended to delete it from the device before redeploying it again.

## Android Scanning Support

Oracle SOCS is already deployed to a device; it is recommended to delete it from the device before redeploying it again.

## Configuring DataWedge Profile for Scanning

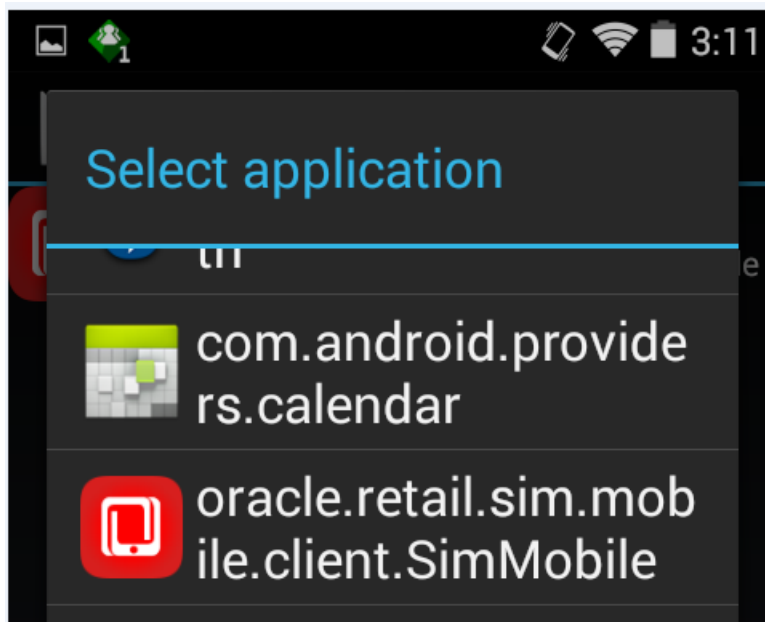
 **Note:**

This is applicable to Zebra /Symbol / Motorola Android devices only.

Open the DataWedge application on the device.

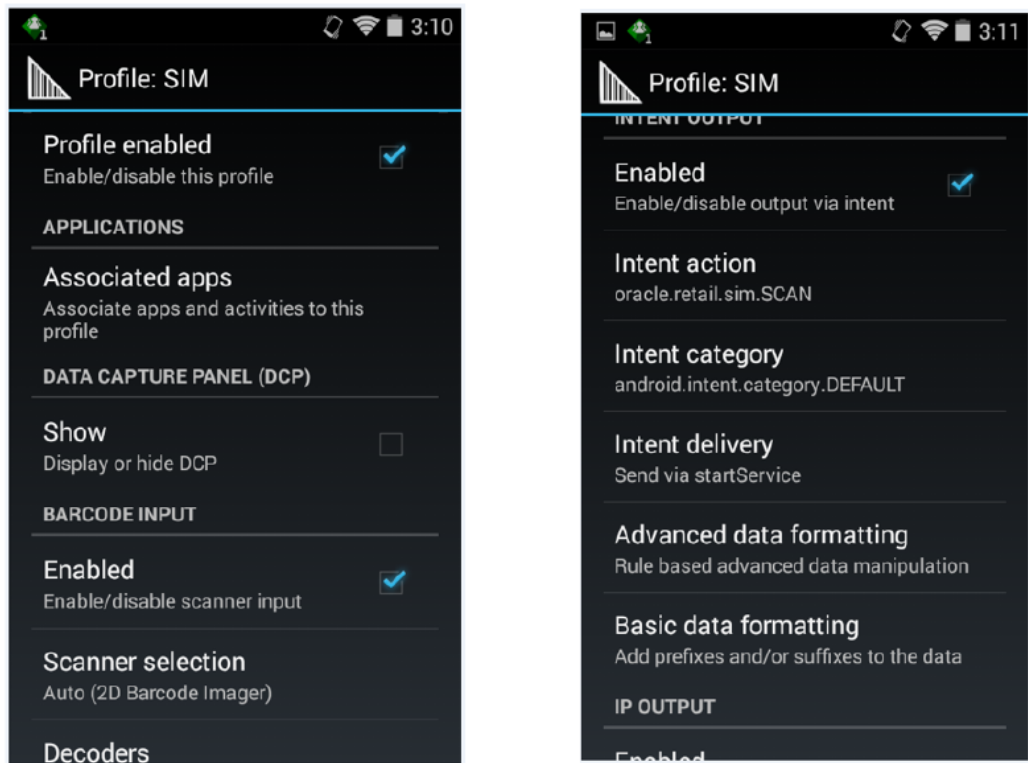
1. Click on the **Menu Bar** at the top right corner. Select **New Profile**.
  - a. Enter the profile name.
  - b. Select the newly created profile.
2. Make sure only these are checked:
  - a. Profile enabled - enable/disable this profile
  - b. Barcode Input - enable/disable scanner input
  - c. Intent Output - enable/disable output via intent
3. Under the APPLICATIONS group select **Associated Apps**:

**Figure 2-11 Associated Apps**



- a. Select the oracle.retail.sim.mobile.client.SOCSCMobile identifier.
4. Under the INTENT OUTPUT set:
  - a. Intent action to oracle.retail.sim.SCAN
  - b. Intent category to android.intent.category.DEFAULT
  - c. Intent delivery to **Broadcast Intent**
5. Save the settings and you would be able use the hardware buttons to provide scan inputs to the Oracle SOCS application.

Figure 2-12 Profile Settings



## Configuring Application for Windows 10 Deployment

To configure Oracle SOCS Mobile for Windows deployment, use the following steps:

1. Open the workspace created above in [Creating a Workspace from the Archive](#).
  - a. Open the application properties (Application / Application Properties...).
  - b. Under **Deployment**, select the Windows1 deployment profile and click the pencil icon.
2. Select Windows Options and confirm you have the correct Application Bundle Id and Application Archive Name (for more information about application bundle ids, refer to *Oracle Fusion Middleware Developing Mobile Applications with Oracle Mobile Application Framework* documentation.)
3. Confirm that the application deploys in Release Mode.
4. Check the other settings as needed.
5. Click **OK**.

## Deploying Application to Windows

Windows 10 setup requires a different set of prerequisites and deployment steps. Setup and deployment steps are explained in the *Oracle Mobile Application Framework* documentation. For more information, see:

[Deploying a MAF Application to the Universal Windows Platform](#)

## Details on Item Images

If configured, the SOCS mobile application will display images for items that have been entered into the system. Different sizes of images are supported in the application for optimal performance. In addition, the application supports a configurable amount of background threads to further improve image loading speeds.

### Image Sizing

There are two different image sizes used in the SOCS mobile application. These sizes exist to improve performance where different sizes of images are displayed by not using excess bandwidth (for example high resolution images being loaded and scaled down to a small space).

### Thumbnail Images

Thumbnail images are the main images utilized in the application. These images are intended for areas in the application where smaller images are displayed (for example lists of items). The suggested resolution of these images is about 128x128px to 256x256px depending on the resolution and DPI of the mobile device's screen running the application. Any higher resolution images are scaled down, and the increased bandwidth to load the images is merely wasted and can cause decreases in performance. Thumbnail images are loaded asynchronously after the screen is populated, and there is a configurable amount of background threads to increase the rate multiple images are loaded into the application.

### High Resolution Images

High resolution images, denoted by the size code 'H' in the system, are loaded on demand by a user. These images are meant to be large up to full screen images of an item. Thus, the suggested resolution of these images is up to the screen resolution of the device. These images can be 600x600 pixels to 800x800 pixels or even greater.

### Configurable Threads

The SOCS mobile application also supports a configurable number of background threads to load multiple images at once. The configured number of threads should be an appropriate number for the mobile hardware running the SOCS application. An excess number of threads can severely impact performance of the device.