

Automation Engineer Level 1

Exercise 9a

Connect Android Device and App



Objective

By the end of this exercise, you will be able to demonstrate how to use the Tricentis Mobile Agent to connect and configure an android device and app to create mobile TestCases.

Why is this Important?

Tricentis Mobile Agent (TMA) supports connecting to physical android and iOS devices and iOS simulators and Android emulators to create mobile tests.

Project Perspective

Mobile test automation is required to test the mobile native apps and web apps. It is needed to create tests, connecting the device and app. This exercise will help you perform the necessary configuration to achieve a connection.

Prerequisites

1. Tricentis Mobile Agent, from Tricentis Tosca version 16.0
2. Ensure you have downloaded the Tricentis Mobile Agent and installed it after installing Tricentis Tosca version 16.0 or above

Instructions

1. Download the APK - **VehicleInsurance.apk** on your system
2. Connect your android device via USB cable to your system and select **Transfer Files** or **Transfer Photos**
3. In your mobile phone, go to **Settings-> About Phone-> Version** and tap 7 times on **Build Number**; this will turn on the developer option
4. Navigate to settings and search for **Developer options** and enable **USB Debugging** and **Disable Permission Monitoring**, optionally enable **Stay awake**

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5. Ensure that the USB driver for the device is installed on your computer. For information on how to install the driver, see this [Tricentis Knowledge Base article](#)
6. Run TMA from the **Start Menu -> Tricentis Mobile Agent**
7. Go to the system tray, right-click on the **TMA icon** and wait until the TMA status is Running and then launch the TMA by right clicking on it and selecting **Open Console**
8. Navigate to the Modules section in Tosca Commander and right-click on the modules folder to create a new Module folder named **Mobile Modules**
9. Right click on Mobile Modules folder and select **Scan-> Mobile**, this will open the Mobile Scan wizard
10. Click on **Add Device**; select **Android** and **Real** radio buttons and enter the device details:
 - Device Name – Any arbitrary name of your choice
 - Device ID – Serial number of your android device, it can also be found on TMA Console as **UDID**
11. Click **Add**; select the **Android** radio button and enter the details:
 - Name of application – Any arbitrary name of your choice
 - Fullpath (path of apk file downloaded) or PackageName/ActivityName
12. Click **Add**; select the Device and App and click on **Connect**

Expected outcome

The connection should be established successfully between the TMA. The connected android mobile device will allow scanning the mobile apps and create/run TestCases on mobile app.

Hints

Similarly, iOS devices or simulator and Android emulator can be set up. Please refer TMA [documentation](#) for more details.