

PL2303G Huawei Android SOP



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Introduction

- Please refer to the official Android Developers website for Android Studio setup and Android app development basics:
<https://developer.android.com/studio>

Required Development Tools:

1. Java Development Kit (JDK)
2. Android Studio
3. Android SDK and Platform-Tools

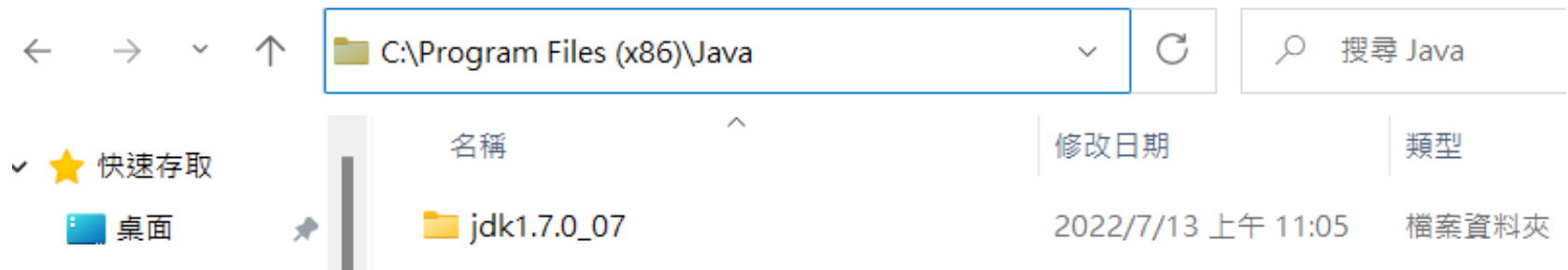
JDK Setup

- Install the JDK and set the required environment variables.
- Set **JAVA_HOME** and add the JDK **bin** folder to the system **PATH**.
- Download JDK:
<https://www.oracle.com/java/technologies/downloads/>

Set the JDK Path

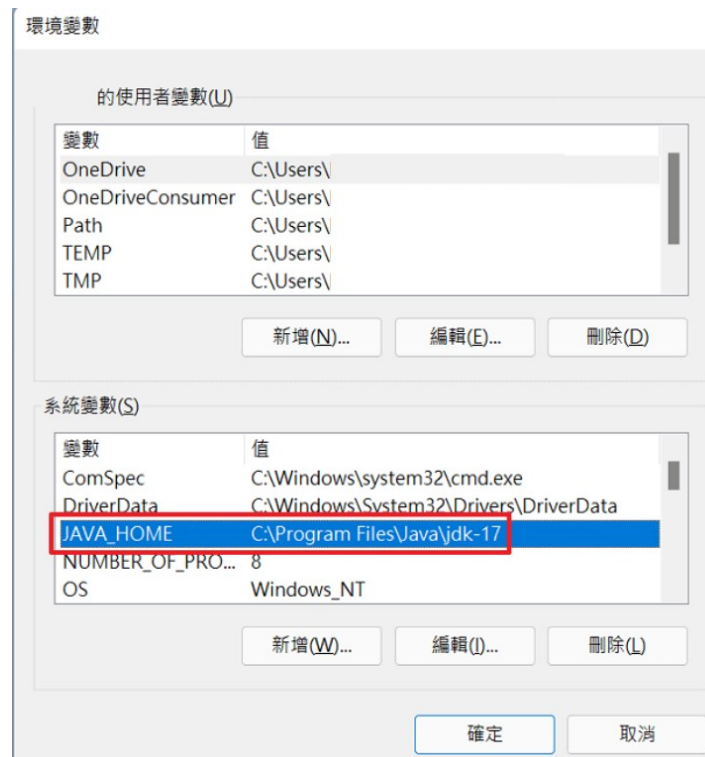
- Locate the JDK installation folder and use this path to set **JAVA_HOME**.

Example: `C:\Program Files (x86)\Java\jdk1.7.0_07`



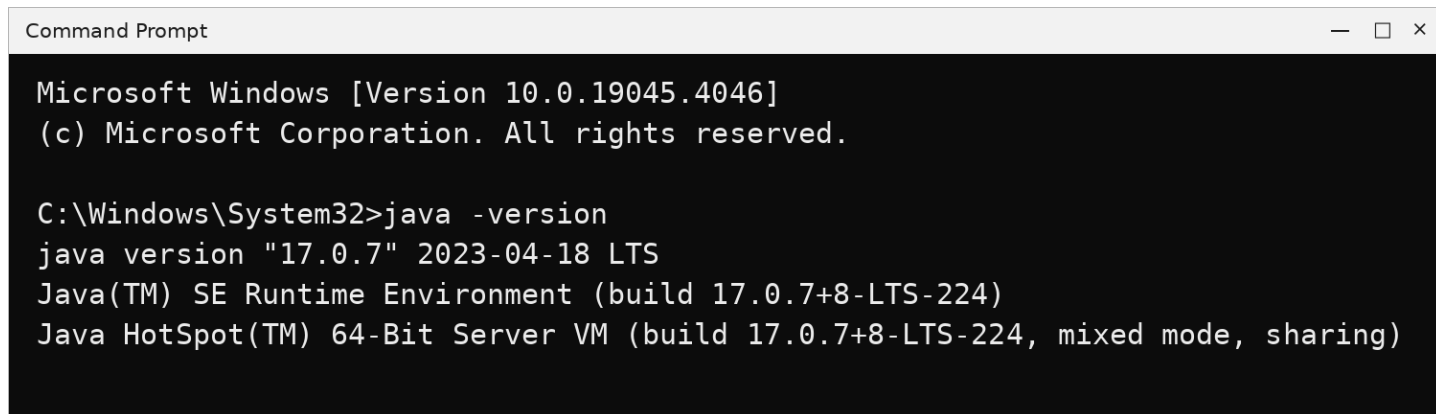
Configure JAVA_HOME

Add or confirm the **JAVA_HOME** system variable in Environment Variables.



Check the JDK Version

- Open **Command Prompt** and run:
`java -version`
- Confirm that the installed Java version is displayed correctly.



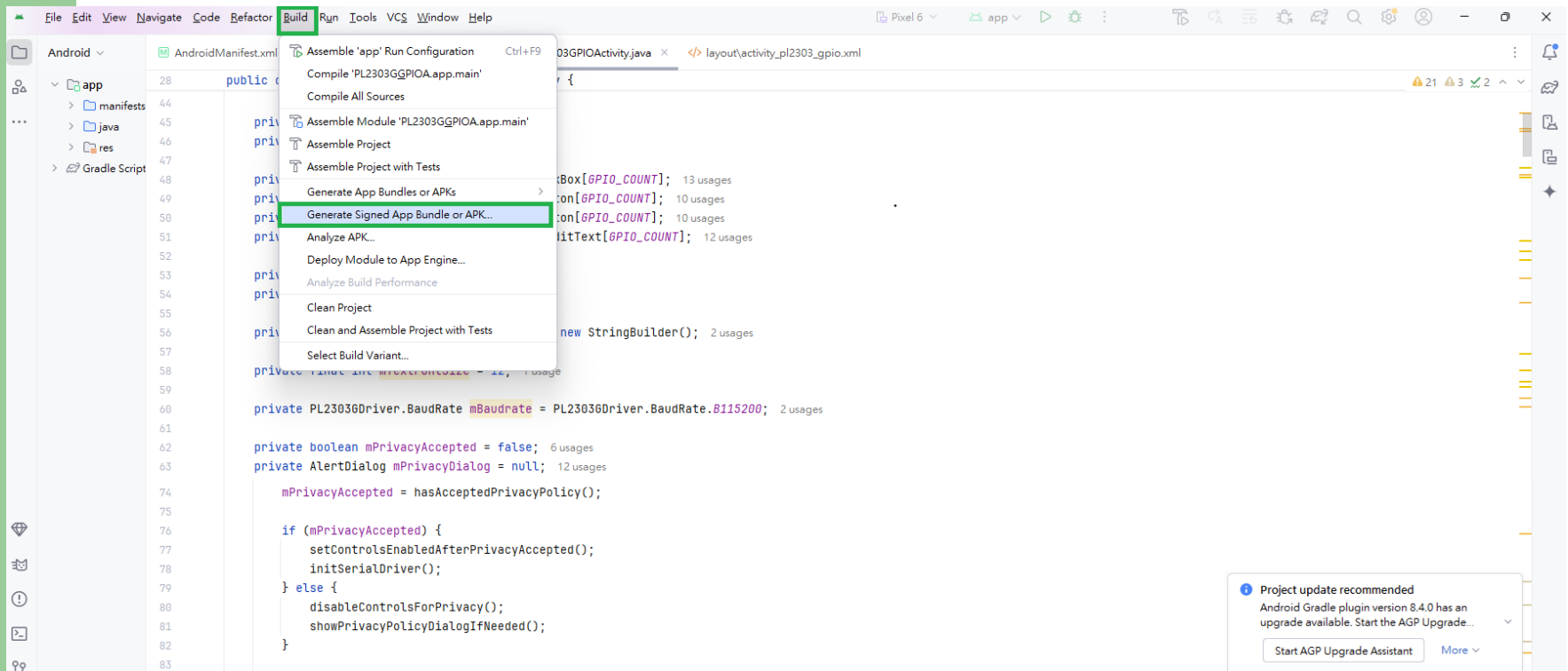
```
Command Prompt

Microsoft Windows [Version 10.0.19045.4046]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>java -version
java version "17.0.7" 2023-04-18 LTS
Java(TM) SE Runtime Environment (build 17.0.7+8-LTS-224)
Java HotSpot(TM) 64-Bit Server VM (build 17.0.7+8-LTS-224, mixed mode, sharing)
```

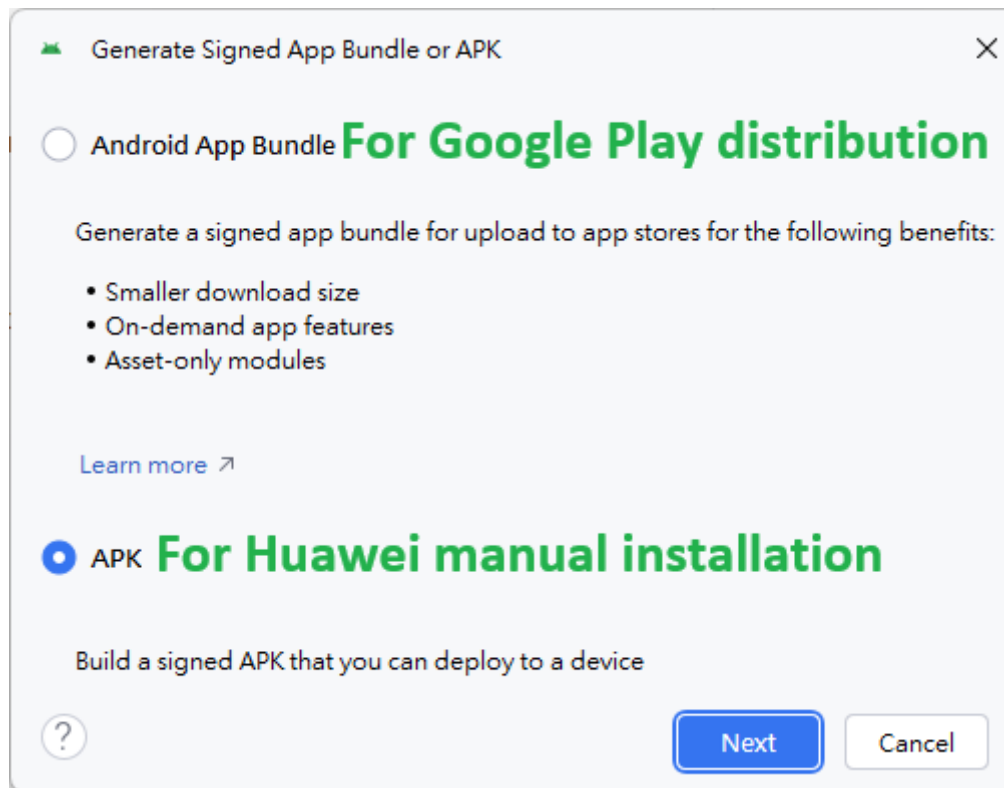
Build the PL2303G Project in Android Studio

In Android Studio, select **Build** → **Generate Signed App Bundle / APK**.



Generate the APK for Huawei Devices

Select APK for manual installation on Huawei devices.



Generate Signed App Bundle or APK

☐ Android App Bundle **For Google Play distribution**

Generate a signed app bundle for upload to app stores for the following benefits:

- Smaller download size
- On-demand app features
- Asset-only modules

[Learn more](#)

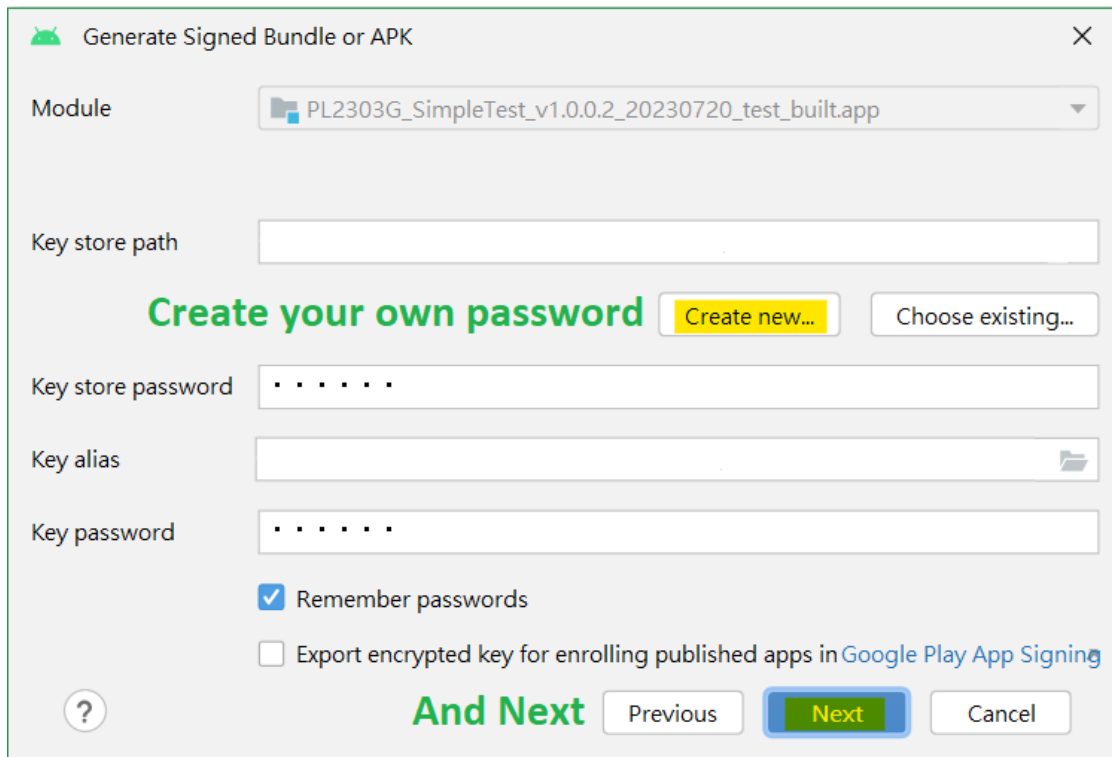
☒ **APK For Huawei manual installation**

Build a signed APK that you can deploy to a device

[?](#) [Next](#) [Cancel](#)

Create a New Keystore

Create a new keystore, set passwords, and click Next.



The screenshot shows the 'Generate Signed Bundle or APK' dialog box in Android Studio. The 'Module' dropdown is set to 'PL2303G_SimpleTest_v1.0.0.2_20230720_test_built.app'. The 'Key store path' field is empty. Below it, the text 'Create your own password' is displayed in green, with 'Create new...' and 'Choose existing...' buttons. The 'Key store password' field is masked with dots. The 'Key alias' field is empty with a folder icon on the right. The 'Key password' field is also masked with dots. There are two checkboxes: 'Remember passwords' (checked) and 'Export encrypted key for enrolling published apps in Google Play App Signing' (unchecked). At the bottom, there is a help icon (?), the text 'And Next' in green, and three buttons: 'Previous', 'Next' (highlighted in blue), and 'Cancel'.

Generate Signed Bundle or APK

Module: PL2303G_SimpleTest_v1.0.0.2_20230720_test_built.app

Key store path

Create your own password Create new... Choose existing...

Key store password:

Key alias

Key password:

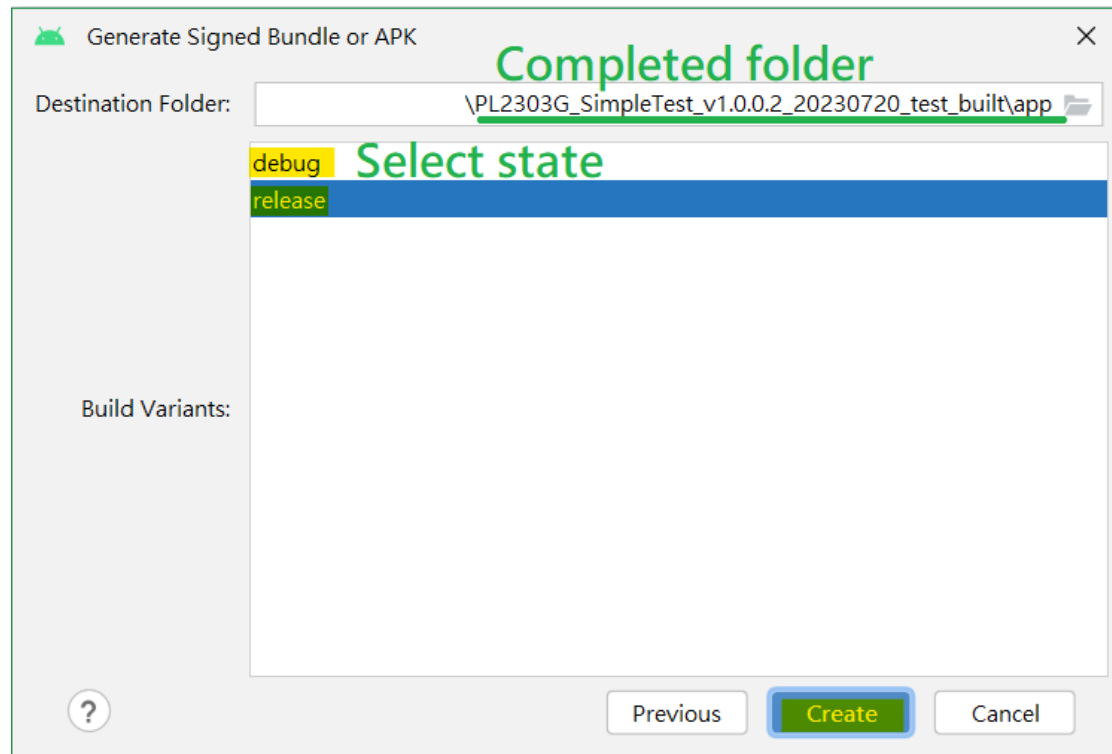
☒ Remember passwords

☐ Export encrypted key for enrolling published apps in [Google Play App Signing](#)

And Next Previous Next Cancel

Select Release and Create the APK

Select release, choose the destination folder, then click Create.



Install the APK on a Huawei Device

Install the APK manually

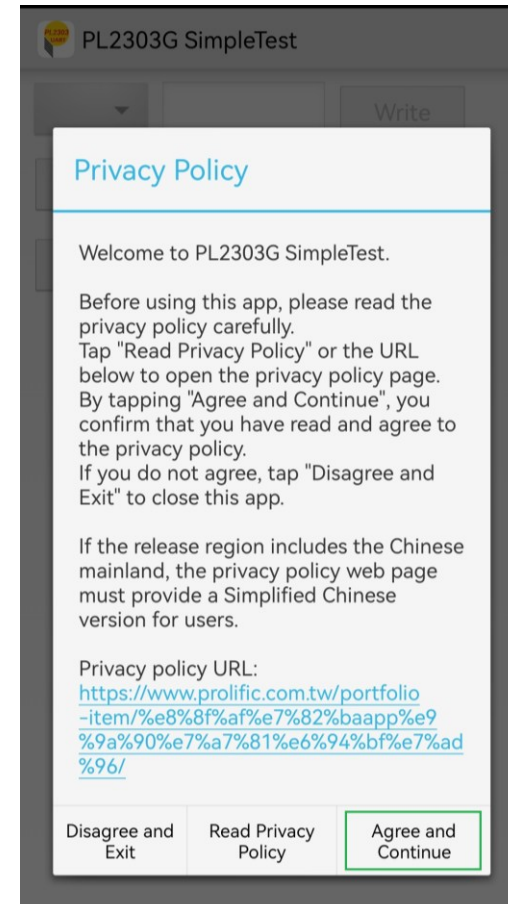
- Copy the APK file from the SDK package to the Huawei device.
- Open the APK file and install it manually.
- After installation, find the PL2303G Huawei app on the Apps screen.



Confirm the Privacy Policy

Review and accept the Privacy Policy

- Read the Privacy Policy before using the app.
- Tap **Agree and Continue** to proceed.



Run the PL2303G Huawei Demo App

Launch and test the demo app

- Open the app after accepting the Privacy Policy.
- Connect the PL2303G USB-to-Serial cable.
- Verify that the **Connected/Attached** message appears.
- Select the baud rate and tap **Open**.

