# WritePad® SDK 5.0 Release Notes (Android)

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### Overview

WritePad® is a natural, style, writer and lexicon independent multilingual handwriting recognition technology. WritePad SDK enables natural handwriting input in third party applications on pen and/or touch enabled mobile devices. The SDK includes:

* WritePad recognition engine in object code and dictionaries for English, French, German, Dutch, Danish, Italian, Portuguese, Norwegian, Finish, Swedish, and Spanish languages. Engine is compatible with the user-specified platform. This SDK supports Android 4.0 or later.
* C/C++ header files with definition of API calls and structures
* Developer's Guide in PDF
* Sample source code (C and Java) that demonstrates how to use the WritePad SDK in an Android application.

### WritePad SDK features

* Recognizes natural handwritten text in a variety of handwriting styles: *cursive (script),* **PRINT**, and MIX*ed* (*cursive*/print).
* Recognizes dictionary words from its main or user-defined dictionary, as well as non-dictionary words, such as names, numbers and mixed alphanumeric combinations.
* Provides automatic segmentation of handwritten text into words and automatically differentiates between vocabulary and non-vocabulary words, and between words and arbitrary alphanumeric strings
* Does not require a user to train the software and allows for most users to achieve high accuracy right "out of the box".
* Reliably recognizes handwriting in 12 languages, including English (US, UK), French, Finnish, German, Italian, Indonesian, Dutch, Danish, Norwegian, Portuguese (Brazil and Portugal), Swedish, and Spanish languages.

### Directory structure

* **dictionaries** – contains WritePad dictionaries for all supported languages
* **documentation** – contains WritePad SDK documentation and licensing agreements
* **libs** – contains WritePad static native Android libraries compiled for arm, arm\_v7a, arm64\_v8a, x86, x86\_64, mips, and mips64 CPUs.
* **include** – contain SDK header files
* **sample** – WritePad SDK sample project for Eclipse IDE.
* **sample\_astudio** – WritePad SDK sample project for Android Studio 1.1+.

### Compiling the sample project

To compile the **RecoTest** sample project (it is assumed that a user is already familiar with Android SDK and NDK and uses Eclipse for development):

1. Copy the entire content of the WritePadSDK archive into a new folder on your computer.
2. Start terminal window and execute the following command in the *<project>/sample* folder to build WritePad JNI libraries for Android OS:

**<NDK Path>/ndk-build**

1. Start **Eclipse** and choose **New->Import**
2. In the **Import** window select the *Existing Projects into Workspace* option and press **Next**. In the next window enter the path to the *<project>/sample* folder into the **Select root directory** field, then press **Finish**.
3. Once the project is imported into Eclipse you can compile the project in and run the **RecoTest** application on the Android emulator or a device.

**Please note that a use the SDK sample code, or any portion of it, in an application that is not integrated with the WritePad SDK is stickily prohibited and will constitute violation of the WritePad SDK License Agreement**.