

# Read Me First

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*Livescribe™ Platform SDK*  
*Version 1.5*

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# Livescribe™ Platform SDK 1.5.0

The Livescribe™ Platform SDK (Software Development Kit) enables third-party developers to create smartpen applications—both *penlets* and *dot paper*—for the Livescribe smartpen. This documentation covers the release of Livescribe™ Platform SDK 1.5.0.

## What's New

Livescribe made feature additions and other improvements to the Platform SDK, including:

- A new Tap-and-Play sample application that uses name matching between the penlet resources and paper product area names. No java programming is required to use this sample code.
- Support for Paper Tablet functionality in custom paper products. You can create areas on your paper products that can be used as tablet regions for the Paper Tablet application.
- Install and launch your penlet automatically with the Smartpen Emulator using the new Run as > Penlet feature and the Debug as > Penlet feature added in version 1.4. (Windows only)
- Ability to view a smartpen's full debug list (a list of the most recent debug RAMs).
- Ability to create installation bundles (.bnd files) with group names and versions. In the future, this feature will help streamline submitting applications to Livescribe.
- Ability to set up library projects to organize your code using Eclipse projects.
- Improvements to the ARW image editor including support for full-size images (256x256) and provides drawing tools for ellipses, rectangles, and lines.
- Ability to disable tooltips for the Paper Project editor.
- Ability to add smartpen display images and audio files directly from Penlet Configuration Editor. The editor launches the audio converter and image converter automatically.

## Hardware and Software Requirements

Penlet and paper product development requires the following hardware and software:

- PC running Windows XP SP2/SP3, Windows Vista, or Windows 7
- Intel-based Mac running Mac OS® X 10.6 or later. Current restrictions for Mac development:
  - You should not run Livescribe Desktop at the same time as your Mac Eclipse development environment.
- A USB connection to a Livescribe smartpen. Alternatively, use the Livescribe Smartpen Emulator.
- The Livescribe smartpen driver and smartpen communication software. Installing Livescribe Desktop automatically installs these for you. You will require Livescribe Desktop (Windows or Mac) version 2.0 or higher and smartpen firmware version 2.4 or higher to develop penlet applications using the Livescribe Platform SDK.
- Eclipse v3.4 (Ganymede) or higher.
- The Java Development Kit (v1.6 or higher; also known as JDK 6).
- Ghostscript (optional).
- **Windows Users:** Livescribe Smartpen Emulator 0.9.24 or higher (optional). Required for deploying penlets and their AFDs to the emulator and debugging them on the emulator.

## Getting the Platform SDK 1.5.0

1. Download and unzip the Platform SDK package from the Livescribe Developer site.
2. Go to the Docs folder and open *Installing the Platform SDK*. Follow the instructions to install and set up Eclipse and the SDK.
3. Download the SDK code samples from the developer forum:  
<http://www.livescribe.com/developer>. In the Developer Forums, find **Sample Code & Docs & FAQs**.

4. Read the latest Release Notes for the SDK:

***relPlatform\_SDK\_RelNotes\_x\_x\_x.pdf***

## Livescribe™ Developer Forum

The Livescribe™ Developer Forum is the home of sample penlets and the latest versions of the SDK documentation. There is a special forum for this purpose.

We encourage all third-party developers to participate in the Livescribe™ Developer Forum. Go to <http://www.livescribe.com>, click on the Developer button, and then the Forums button. Go to the forum named ***Sample Code & Docs & FAQs***, which contains the following:

- **Sample Applications:** You can find sample penlet and paper projects in the Samples directory. For additional samples, check this forum.
- **Latest Version of the Documentation:** The PDF documents bundled in the Platform SDK will also be available in this forum. Livescribe™ will update these documents between official releases of the SDK, so check back for the latest version.
- **FAQs:** In this forum, you will find Frequently Asked Questions (FAQs) on a variety of technical subjects related to penlet development.

## Livescribe™ Smartpen Emulator

Although not included in the Livescribe Platform SDK package, the Livescribe Smartpen Emulator is a useful tool to use when developing smartpen applications. You can download and install this separately from the Livescribe Developer site. Refer to the *Livescribe Smartpen Emulator User Guide* for installation instructions. This document is included in Livescribe Smartpen Emulator package.

The Livescribe™ Smartpen Emulator works like a physical smartpen. With the emulator, you can run open paper and fixed print applications on your desktop, just as you would on your smartpen.

Highlights:

- View the smartpen display and perform menu commands using a mouse or other pointing device.
- View and interact with on-screen paper products (such as notebook pages) using a mouse or other pointing device.

- View smartpen application debug logs in real-time as you interact with the emulator
- Audio recording and playback through PC hardware.
- View static and dynamic regions on the paper product.
- Capture images of the smartpen display.
- Ability to demo Penlets and Paper Products using the emulator
- Install and interact with smartpen applications and paper products, including your own.

## Supported Platforms

The Livescribe™ Smartpen Emulator supports the following development platforms:

- Windows XP SP2/SP3, Windows Vista, and Windows 7