

# ePOS-Print SDK for Android Application Development Setup Guide

M00048500 Rev. A

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#### Overview

This document describes the procedures to establish the development environment for the application used for printing from Android device using Eclipse. Set up the environment to run the sample program supplied with EPSON ePOS-Print SDK for Android.

#### **Environment for This Document**

This document applies to the environment as described below. Information such as the Web page URLs and the download file versions are as of April 2012. If your environment is different from the following, interpret the descriptions accordingly.

- □ OS : Windows 7 (32 bit)
- 🗅 Java SE Development Kit 6 Update 31
- □ Eclipse Classic 3.7.2
- Android SDK Tools, Revision 17
- ADT Plugin 17.0.0
- □ Sample program supplied with ePOS-Print SDK for Android

#### **Relevant Manual**

ePOS-Print SDK for Android User's Manual

## **Operation Workflow**

1. "Installing Java SE Development Kit" on page 4

Download and install JDK.



Download Eclipse and configure the initial settings.

# 3. "Setting Up Android SDK Manager" on page 9

Download and install Android SDK Manager. Configure the settings required for development.

4. "Downloading and Installing ADT Plugin" on page 14 Install ADT Plugin to Eclipse.

5. "Executing Sample Application (Eclipse)" on page 18

Execute the sample application using the emulator.

### Installing Java SE Development Kit

Download and install JDK (Java Development Kit).

#### **Downloading JDK**



Access the following URL and download Java SE 6 JDK. http://www.oracle.com/technetwork/java/javase/downloads/index.html



2 The Java SE Downloads window appears. Select (Accept License Agreement) and select the file to be installed. Save the file to a desired location. (In this manual, download Windows x86 to construct the environment.)

Overview Downloads	Documentation	Community	Technologies	Training
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#### Installing JDK

Start the downloaded file. The following window appears. Click the (Next) button.



2 Select the function to install and click the (Next) button. To change the installation destination, click the (Change) button and change the destination. (In this manual, the default destination is used.)





4

Installation starts.

When installation completes, the following window appears. Click the (Finish) button.



# Setting Up Eclipse

Download, install and set up Eclipse.

#### **Downloading Eclipse**

Access the following URL and download Eclipse. Save the file to a desired location.

(In this manual, download and set up Eclipse Classic 3.7.2)

#### http://www.eclipse.org/downloads/

Eclipse Downloads	
Packages Developer Builds Projects	
Compare Packages Older Versions Eclipse Indigo (3.7.2) Packages	for Windows
Eclipse IDE for Java EE Developers, 212 MB Downloaded 2,255,658 Times Details	Windows 32 Bit Windows 64 Bit
Eclipse Classic 3.7.2, 174 MB     Downloaded 1,236,277 Times Details Other Downloads	Windows 32 Bit Windows 64 Bit
Common Eclipse IDE for Java Developers, 128 MB Downloaded 814,054 Times Details	Windows 32 Bit Windows 64 Bit
Eclipse IDE for C/C++ Developers (includes Incubating components), 108 MB Downloaded 334,211 Times Details	Windows 32 Bit Windows 64 Bit
Eclipse Modeling Tools, 272 MB Downloaded 106,061 Times Details	Windows 32 Bit Windows 64 Bit

#### Installing Eclipse and Configuring Initial Settings

- Extract the downloaded file to a desired location. (In this manual, extract the file under "C:\Program Files".)
- 2 Double-click "eclipse.exe" to start Eclipse.

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	eclipse	4/24/2012 10:48 AM	Application	52 KB		
	eclipse	4/24/2012 10:48 AM	Configuration sett	1 KB		
	eclipsec	4/24/2012 10:48 AM	Application	24 KB		
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	inotice	4/24/2012 10:48 AM	HTML Document	9 KB		



Set up the work folder during Eclipse startup process. Click the (OK) button. (In this manual, the default settings are used.)

Workspace	e Launcher		X
Select a wo	rkspace		
Eclipse SDK Choose a w	stores your projects in a folder called a workspace. orkspace folder to use for this session.		
Workspace:	C:\Users\User1\workspace	▼ <u>B</u> r	owse
Use this a	is the default and do not ask again	ОК	Cancel

#### Setting Proxy for Eclipse

Use this operation when proxy setting is required for Internet connection. If not required, this operation is unnecessary.



Select (Window) - (Preferences).



2 Select (General)-(Network Connections) from the left column. Set the proxy and click the (OK) button.

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# Setting Up Android SDK Manager

Download and install Android SDK Manager. Create Android Virtual Device.

#### Downloading Android SDK Manager

Access the following URL and download Android SDK Manager.

(In this manual, download the installer for Windows.)

#### http://developer.android.com/sdk/index.html

#### Download the Android SDK

Welcome Developers! If you are new to the Android SDK, please read the steps below, for an overview of how to set up the SDK. If you're already using the Android SDK, you should update to the latest tools or platform using the Android SDK and AVD Manager, rather than downloading a new SDK starter package. See <u>Adding SDK Components</u>.

Platform	Package	Size	MD5 Checksum
Windows	android-sdk_r17-windows.zip	37417953 bytes	3af1baeb39707e54df068e939aea5a79
	installer_r17-windows.exe (Recommended)	37410775 bytes	5afaf6511ebaa52bd6d1dba4afc61e41
Mac OS X (intel)	android-sdk_r17-macosx.zip	33867836 bytes	52639aae036b7c2e47cf291696b23236
Linux (i386)	android-sdk_r17-linux.tgz	29706368 bytes	14e99dfa8eb1a8fadd2f3557322245c4

#### Installing Android SDK Manager

**4** Start the downloaded file. The following window appears. Click the (Next) button.







2

If JDK is not installed, it is notified at this point.



3 Specify the installation destination. Click the (Next) button. (In this manual, the default settings are used.)

O Android SDK Tools Setup	
Choose Install Location Choose the folder in which to install Android SDK Tools.	Line of the second seco
Setup will install Android SDK Tools in the following folder. To install in a diffe Browse and select another folder. Click Next to continue.	rent folder, click
Destination Folder	Browse
Space required: 54.7MB Space available: 92.4GB	
Nullsoft Install System v30-Mar-2012.cvs	Cancel



Specify the name to be registered to Start Menu. Click the (Install) button.

Android SDK Tools Setup	
Choose Start Menu Folder	
Choose a Start Menu folder for the Android SDK Tools shortcuts.	
Select the Start Menu folder in which you would like to create the program's can also enter a name to create a new folder.	shortcuts. You
Android SDR Loois	
Advances direct Tamin Agrantee Transport	
Congo Crosse Scalibilitation Screege Recoger	
Do not create shortcuts	
Nullsoft Install System v08-Mar-2012.cvs	Cancel



When installation completes, click the (Next) button.







#### Setting Android SDK Manager

#### Start Android SDK Manager.

(Start)-(All Programs)-(Android SDK Tools)-(SDK Manager)



On Windows Vista or later, it is required to run Android SDK Manager as the administrator. To run as the administrator, right-click Android SDK Manager and select [Run as administrator]. If Android SDK Manager is not run as the administrator, package download will fail.

2 When the proxy setting is required, select (Tools)-(Options).

SDK Path: Manage AVDs Packages Manage Add-on Sites  Nar Options API Rev. Status  About  API Rev. Status  About  API Rev. Status  About  API Rev. Status  Android SDK Tools  17  Installed  Android SDK Tools  11  Not installed  Android 4.0.3 (API 15)	
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🗑 🌞 SDK Platform 15 3 🕹 Not installed	
🗑 👗 Samples for SDK 15 2 븆 Not installed	
🗑 🏺 ARM EABI v7a System Image 15 1 💺 Not installed	
🗑 🙀 Google APIs 15 1 💺 Not installed	
Sources for Android SDK 15 1 Not installed	

**3** The proxy setting window appears. Set the proxy and click the (Close) button.

Android SDK Manager - Settings	×
Proxy Settings	
HTTP Proxy Server	
HTTP Proxy Port	
Misc Force https:// sources to be fetched using http:// Ask before restarting ADB	
	Close



Among the Android versions supported by ePOS-Print SDK for Android, select the version of the device to be developed, and click the (Install XX packages...) button.

Android SDK Manager				
Packages Tools				
SDK Path: C:¥Program Files¥Android¥android-sdk				
Deskages				
Packages				
🖷 Name	API	Rev.	Status	
🔺 📃 🧰 Tools				
Android SDK Tools		17	Installed	
📄 🙀 Android SDK Platform-tools		11	Not installed	
Image: Provide the second s				
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🔺 🔲 🦢 Extras				
📄 🛃 Google USB Driver		4	Not installed	
Change (Distribution (Distribution) (Distribution)				Testell 7 seedsees
Snow: V Updates/New V Installed Obsolete	Select <u>Ne</u>	w or <u>up</u>	lates	Install / packages
Sort by:      API level      Repository	Deselect	All		Delete packages
Done loading packages.				

**5** Select (Accept All) and click the (Install) button. Installation of Virtual Device starts.

Android SDK Platform-tools, revision     Documentation for Android SDK, API     SDK Platform Android 4.0.3, API 15,     Samples for SDK API 15, revision 2     ARM EABY V73 System Image, Andr     Google APIs, Android API 15, revisio     Sources for Android SDK, API 15, re     Google USB Driver, revision 4	Package Description Android SDK Platform-tools, revision 11 Dependencies This package is a dependency for: - Android SDK Tools, revision 17 Archive Description	Accept Al

# **Downloading and Installing ADT Plugin**

Download and install ADT (Android Development Tools) Plugin.



To execute this operation, the computer must be connected to the Internet. If the proxy setting is required for Internet connection, refer to "Setting Proxy for Eclipse" on page 7.



Start Eclipse. Select (Help)-(Install New Software).





Click the (Add) button.

Install	
Available Software	
Select a site or enter the location of a site.	
Work with: type or select a site	- Add
	Find more software by working with the " <u>Available Software Sites</u> " preferences.
type filter text	
Name	Version
① There is no site selected.	
Select All Deselect All	
Details	



Enter (Name) and (Location), and click the (OK) button.

Item	Description	
Name	ADT Plugin	
Location	https://dl-ssl.google.com/android/eclipse/	

Name: ADT Plugin	
Landing hitser//dl ad assale englanderid/adiase/	
Location: (https://di-ssi.google.com/android/eclipse/	
⑦ ОК Сапсе!	



Select the (Developer Tools) checkbox and click the (Next) button.

Install	
Available Software	
Check the items that you wish to install.	
	0.
Work with: ADT Plugin - https://dl-ssl.google.com/android/eclipse/	- <u>А</u> dd
	Find more software by working with the <u>"Available Software Sites"</u> preferences.
type filter text	
Name	Version
▲ ☑ 000 Developer Tools	
Android DDMS	17.0.0.v201203161636-291853
Android Development Tools	17.0.0.v201203161636-291853
Viewer	17.0.v201203161636-291853
V Android Traceview	17.0.0.v201203161636-291853
Select All Deselect All 4 items sel	ected
Details	
	Ψ.
Show only the latest versions of available software	Hide items that are already installed
	What is <u>already installed</u> ?
Show only software applicable to target environment	
Contact all update sites during install to find required software	
0	< Back Next > Finish Cancel



6

Confirm the plugin to be installed, and click the (Next) button.

After confirming the terms of the license agreement, select the (I accept...) checkbox and click the (Finish) button.



Installation starts. If the following window appears, click the (OK) button.



Click the (Restart Now) button to restart Eclipse.





8

Select (Window) - (Preferences).



**10** Select (Android) from the left column. Click the (Browse...) button to display the Android folder where SDK Manager is installed.

(In this manual, display "C:\Program Files\Android\android-sdk".)



**1 Click the (Apply) button. Confirm that the installed package is displayed.** 

Preferences				X
type filter text	Android			⇒ • •
General Android Ant Help Install/Update Java Plug-in Development Run/Debug Team XML	Android Preferences SDK Location: C.NP. Note: The list of SDK Target Name Android 4.0.3 Google APIs	ogram Files\Android\android Targets below is only reloaded ono Vendor Android Open Source Project Google Inc.	Erowse Platform 4.0.3 4.0.3	y' or 'OK' API 15 15
		Restore <u>D</u> efaults	<u>A</u> pply	
?		ОК	Cancel	

# **Executing Sample Application (Eclipse)**

Import the sample program supplied with ePOS-Print SDK for Android into Eclipse, create a virtual device, and check operation using the emulator.

#### Importing Application

Import the sample application to Eclipse.

Extract ePOS-Print SDK for Android and save it to a desired location.

2 Start Eclipse. Select (File)-(Import).

Java - Eclipse SDK			
File Edit Run Navigate S	earch Project Refactor	Window Help	
New	Alt+Shift+N ►	\$\$ • O • Q • # @ • \$\$ \$? • \$1 • \$1 • \$2 • \$\$ \$	😭 🐉 Ja
Open File	-		- D 🕞 Outline 🕺
Close	Ctrl+W		An outline is not
Close All	Ctrl+Shift+W		
Save	Ctrl+S		
Save As			
Save All	Ctrl+Shift+S		
Revert			
Move			
Rename	F2		
Refresh	F5		
Convert Line Delimiters To	• •		
Print	Ctrl+P		
Switch Workspace	•		
Restart			
🔄 Import			
Export			

3

Select (General)-(Existing Projects into Workspace). Click the (Next) button.

Import	- D X
Select Create new projects from an archive file or directory.	Ľ
Select an import source:	
type filter text	
<ul> <li>General</li> <li>A chive File</li> <li>Existing Projects into Workspace</li> <li>File System</li> <li>Freferences</li> <li>CVS</li> <li>Finstall</li> <li>Plug-in Development</li> <li>Plug-in Development</li> <li>Run/Debug</li> <li>Team</li> <li>XML</li> </ul>	
(?) < Back Next > Einish	Cancel



Click the (Browse...) button to display the saved ePOS-Print SDK for Android. Select the (Copy projects into workspace) checkbox and click the (Finish) button.

Import		
Import Projects Select a directory to se	arch for existing Eclipse projects.	
Select root directory:	C:\Users\User_Name\workspace\ePOSPrintSample	B <u>r</u> owse
○ Select <u>a</u> rchive file:		Browse
Projects:		
ePOSPrintSample	C:\Users\User_Name\workspace\ePOSPrintSample)	Select All
		Deselect All
		Refresh
Conv projects into w	nrkenang	
Working sets		
Add project to work	ing sets	
Working sets:		▼ Select
< 2	ack Next > Einish	Cancel

**5** Confirm that the application has been properly imported.

Image String	ava - Eclipse SDK					• <u> </u>
Die Dur bein geston politik velacie minuter gebon   If Package Explorer S   If Backage Explorer S   If Backage Explorer S   If Backage Explorer S   If Backage Explorer S   If Code2Adettivity.java   If Code2Adettivity.java   If DiscoverPrinterActivity.java   If Decker Explorer S   If DiscoverPrinterActivity.java   If DiscoverPrinterActivity.java   If DiscoverPrinterActivity.java   If DiscoverPrinterActivity.java   If DiscoverPrinterActivity.java   If Decker Explorer S   If DiscoverPrinterActivity.java   If DiscoverPrinterActivity.java   If Decker Explorer S   If DiscoverPrinterActivity.java   If DiscoverPrinterActivity.java   If Decker Explorer S   If DiscoverPrinterActivity.java   If Decker Explorer S   If DiscoverPrinterActivity.java   If DiscoverPrinterActivity.java   If Decker Explorer S   If Additional 2.3.3   Android Dependencies   If error   <	File Edit Run Navigate Search Broid	st Pofestor Window Holp				
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PageModeActivity.java CutActivity.java CutActivity.java CutActivity.java DiscoverPrinterActivity.java EPOSPrintSampleActivity.java OpenActivity.java OpenActivity.java PageModeActivity.java PageModeActivity.java ShowMsg.java ShowMsg.java ShowMsg.java ShowMsg.java ShowMsg.java PageModeActivity.java ShowMsg.java ShowMsg.java ShowMsg.java PageModeActivity.java ShowMsg.java ShowMsg.java PageModeActivity.java ShowMsg.java <td>🔺 🌐 com.example</td> <td></td> <td></td> <td></td> <td></td> <td></td>	🔺 🌐 com.example					
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	J GetNameActivity.java					
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	×					

#### Settings for Newly Created Project

#### Compiler compliance level settings

When a new project is created, the Compiler compliance level of the created project must be changed to "1.6". To change the Compiler compliance level, follow the procedures below.

1

Select the created project and select (Project)-(Properties).

Select (Java Compiler) from the left column. Change (Compiler compliance 2 level:) to (1.6).

Properties for ePOSPrintSan	nple	
type filter text	Java Compiler	⇔ • ⇔ • •
Resource	Enable project specific settings	Configure Workspace Settings
Android Lint Preferences	JDK Compliance	
Builders	Use compliance from execution environment on the 'Java Build Path'	
Java Build Path	Compiler compliance level:	1.6 -
Java Code Style	✓ Use default compliance settings	
<ul> <li>Java Compiler</li> <li>Java Editor</li> </ul>	Generated .class files compatibility:	1.6 👻
Javadoc Location	Source compatibility:	1.6 -
Project References Run/Debug Settings	Disallow identifiers called 'assert':	Error 👻
Task Tags	Disallow identifiers called 'enum':	Error 👻
XML Syntax	Classfile Generation	
	Add variable attributes to generated class files (used by the debugger)	
	$\ensuremath{\overline{\!\!\mathcal S}}$ Add line number attributes to generated class files (used by the debugger)	
	$\ensuremath{\overline{\!\!\mathcal M}}$ Add source file name to generated class file (used by the debugger)	
	☑ Preserve unused (never read) local variables	
	$\overline{\!$	

#### Settings for Using the Wi-Fi / Bluetooth function

To use the Wi-Fi / Bluetooth function, it is required to specify "Permission" in AndroidManifest.xml.

- □ For using the Wi-Fi function android.permission.INTERNET
- □ For using the Bluetooth function android.permission.BLUETOOTH android.permission.BLUETOOTH\_ADMIN

Specify "Permission" with the following procedures:



Double-click (AndroidManifest.xml).



3

4

Select the (Permissions) tag. Click the (Add) button.



Select (Uses Permission) and click the (OK) button.

(Uses Permission) is added. Click the "▼" mark next to (Name) and select the necessary Permissions from the list.

ePOSPrintSample     ePOSPrintSample     er     from.example     the com.example     the test     eng (Generated Java Files)     a Android 2.3.3     Android Dependencies	in Android Manifest Premissions         P           Output         Output           Output         Output	Add	Attribute The "per pack for it	tes for Uses Permission <u>uses-permission</u> tag requests a <b>rmission</b> " that the containing kage must be granted in order	An outline is not availab	ble.
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	•	m				•



Repeat Step 2 to 4 to specify the required Permissions.



#### Executing Sample Application (Emulator)

**1** Start Android Virtual Device Manager. After it starts, click the (New...) button. (Start)-(All Programs)-(Android SDK Tools)-(AVD Manager)

ools					
st of existing A	ndroid Virtual Devices located	d at C:¥Users¥User	1¥.android¥avd		
VD Name	Target Name	Platform	API Level	CPU/ABI	New.
	No AVD available	-			Edit. Delete Repair Detail
					Refre

2 Select the virtual device name to be created and the OS version. Specify (Name) (any name) and select (Target). Click the (Create AVD) button.

Nume.	Test				
Target:	Android 2.3.3 - API Level 10 -				
CPU/ABI:	ARM (armeabi-v7a)				
SD Card:					
	O Size:			MiB 👻	
	© File:			Browse	
Snapshot:	Enabled				
Skin:					
	Built-in: Default (		WVGA800) -		
	Resolution:		x		
Hardware:					
	Property		Value	New	
	Abstracted LC	D density	240		
	Max VM application h		24	Delete	
	Device ram size		256		
Override	the existing AVD	with the s	ame nam	e	

The created virtual device is displayed.

ools					
st of existing Ar	ndroid Virtual Devices locat	ed at C:¥Users¥User	1¥.android¥avd		
AVD Name	Target Name	Platform	API Level	CPU/ABI	New
✓ Test	Android 2.3.3	2.3.3	10	ARM (armeabi)	Edit Delete Repair. Details Start.
					Refres

**4** Click the button to run Eclipse.

Java - Eclipse SDK	
<u>Eile Edit Run Navigate Search Project Refactor Window H</u> elp	
□ + 0 + 4 = = = = = = = = = = = = = = = =	ğ ▼ 😕 🔗 ▼ 💱 ▼ 🖓 ▼ 🐃 🔶 ▼ 🔛 🔡 🎒 Java
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✓ ❷ ePOSPrintSample	
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BarcodeActivity.java	
Code2dActivity.java	
D CutActivity.java	
DiscoverPrinterActivity.ja	
EPOSPrintSampleActivity	
J GetNameActivity.java	
▷ ImageActivity.java	

5 For the initial startup, the window to confirm the execution type appears. Select (Android Application) and click the (OK) button.

🗣 Run As
Select a way to run 'ePOSPrintSample':
Description Runs an Android Application
OK         Cancel

3



The emulator starts and the application is executed.



#### Executing Sample Application (Android Device)

To run the application using an actual Android device, set up the device according to the procedures described in the following URL:

http://developer.android.com/guide/developing/device.html