# SL120 Android Development Environment Setup

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There are two prevailing development environments for the Android application software: Android Studio and Eclipse. Google no longer supports the official update of the Eclipse development plug-in. Android Studio is recommended to develop the application software of the UHF elf. This manual will describe the setup of the above two development environments.

#### 1. Android Studio

Log in the official website of Android (across the firewall is required), and access to the Develop-Tools page, or directly click the link address <u>http://developer.android.com/sdk/index.html</u>. The web interface is shown in Figure 1:



Figure 1

Click the green download button to pop up the download dialog; check the "Agree or not" box and click the blue button to confirm downloading.

lefore downloading	g, you must agree to the following terms and conditions.	
		*
4.5 EXPORT REST	RICTIONS. THE SDK IS SUBJECT TO UNITED STATES EXPORT LAWS AND REGULATIONS. YOU	
AUST COMPLY WIT	TH ALL DOMESTIC AND INTERNATIONAL EXPORT LAWS AND REGULATIONS THAT APPLY TO	
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natter arising from	the License Agreement. Notwithstanding this, you agree that Google shall still be allowed to	
pply for injunctive	remedies (or an equivalent type of urgent legal relief) in any jurisdiction.	
lovember 20, 2015		

Figure 2

Once the download is complete, start installing Android Studio. Skip the installation process and open the software interface as follows after installation:



Figure 3

Click the second option Open an existing Android Studio project and select the project directory of the demo software:

n 👳 Open File or Project	×
🛉 📼 👁 🕞 🙀 🗙 💋 🂷 🛛 Hid	de path
\Projects\Android\Studio\IvrJack.RU01.Demo\ivrjack.ru01.de	mo 🎽
🔻 🙍 IvrJack.RU01.Demo	
. 🕨 🖿 .gradle	
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ri Os build.gradle	
M La ivrjack.ru01.demo.iml	
M 🔄 proguard-rules.pro	
.agitignore	
<sup>2</sup> build.gradle	
Drag and drop a file into the space above to quickly locate it in the t	ree
л ОК Cancel H	lelp
Harris and the second sec	

Figure 4

Confirm and open it with the system interface as follows after importing the configuration successfully:



Figure 5

Connect your phone to the computer via data cable and click the

Run button from the toolbar; check your phone from the device list and click OK.



Figure 6

Wait patiently until it is compiled. After successful compilation, the demo software will be installed on your phone.



Figure 7

#### 2. Eclipse

Log in the official website of eclipse: <u>http://www.eclipse.org/downloads/</u>; select a version to download and install.

<b>3</b>	Eclipse IDE for Java EE Developers 276 MB 1,632,525 DOWNLOADS Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE, JPA, JSF, Mylyn	×	Windows 32 bit   64 bit	RELATED LINKS  Compare & Combine Packages New and Noteworthy
¥	Eclipse IDE for Java Developers 167 MB 862.618 DOWNLOADS The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Mylyn, Maven integration and WindowBuilder	*	Windows 32 bit   64 bit	<ul> <li>Install Guide</li> <li>Documentation</li> <li>Updating Eclipse</li> <li>Forums</li> </ul>
(in)	Eclipse IDE for C/C++ Developers 177 MB 237.498 DOWNLOADS An IDE for C/C++ developers with Mylyn integration.	*	Windows 32 bit   64 bit	MORE DOWNLOADS  • Other builds • Eclipse Mars (4.5) • Eclipse Juna (4.4)
- P	Eclipse for PHP Developers 154 MB 110.709 DOWNLOADS The essential tools for any PHP developer, including PHP language support,	*	Windows 32 bit   64 bit	Eclipse Kepler (4.3)     Eclipse Juno (4.2)     Older Versions

Figure 8

Download the Android development plug-in <u>ADT-23.0.7</u>. As the download link is not available in the official website of Google, click the above link to download. Open Eclipse and click Help-Install New Software to pop up the following dialog box:

S Install		- 🗆 X
Available Software		
Select a site or enter the location of a site.		
Work with: type or select a site		~ Add
Fir	d more software by working with the	"Available Software Sites" preferences.
type filter text		
Name	Version	
(i) There is no site selected.		
Select All Deselect All		
Details		
		6
Show only the latest versions of available software	Hide items that are already instal	lled
Group items by category	What is <u>already installed</u> ?	
Contact all undate sites during install to find required software		
Contact an update sites during instan to find required software		
$\odot$	< Back Next >	Finish Cancel

Figure 9

Click the Add button, select Archive, check the ADT-23.0.7 plug-in just installed and click OK.

💭 Add R	epository	×
<u>N</u> ame:		L <u>o</u> cal
Location:	jar:file:/D:/Android/Setup/ADT-23.0.7.zip!/	<u>A</u> rchive
?	ОК	Cancel

Figure 10

Check Developer Tools and click Next to start installation. Once the installation is complete, click File-Import in the menu bar, select "Existing Projects into Workspace" and click Next.

Import		$\times$
elect Create new projects from an archive file or directory.	Ľ	5
Select an import source:		
type filter text		
<ul> <li>General</li> <li>Archive File</li> <li>Existing Projects into Workspace</li> <li>File System</li> <li>Preferences</li> </ul>		^
<ul> <li>✓ Android</li> <li>         Existing Android Code Into Workspace     </li> <li>         &gt; &gt; &gt;          &gt;</li></ul>		
>		
> 🍃 Install	 	~
(?) < Back Next > Finish	Cance	-

Figure 11

Check the project directory of the demo software and click Finish.

💭 Import				×
Import Projects				<b>T</b> , <b>a</b>
Select a directory to sea	ch for existing Eclipse proj	ects.		1
Select root directory:	F:\Projects\Android\Ivr\Ivr	Jack.KUUT.L V	Browse	·
○ Select archive file:		~	Browse	
Projects:				
✓ IvrJack.RU01.Den	o (F:\Projects\Android\Ivr\	lvrJack.RU01.D	Select Al	I
			Deselect A	All
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Options				
Copy projects into w	ojects orkspace			
Hide projects that alr	eady exist in the workspace	e		
Working sets				
Add project to work	ng sets			
Working sets: Sample	;	$\sim$	Select	
				_
				_
</td <td>Back Next &gt;</td> <td>Finish</td> <td>Cancel</td> <td></td>	Back Next >	Finish	Cancel	

Figure 12

Open the project successfully with the interface as follows:





Right click the project, select "Run As"-"Android Application" and your phone, and click OK until it is compiled successfully. At this time, the demo software has been installed on your phone.

Select	a device with min pose a running An	API level 8. droid device						
	Serial Number		AVD Name		Tar	get	Debug	State
	huawei-plk_al	10-D8YDU15C	N/A		•	5.0.2		Online
OLau	nch a new Androi		-1.4					
	AVD Name Target Name			Platfo	API L	CPU/ABI		Start
		No AVD avail	able					
								Details
								D ( )
								Kefresh
								Manager

Figure 14