



# **SIM8950 Series Smart Module SDK Download User Guide**

**Smart Module**

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## Version History

Version	Date	Chapter	What is new
V1.00	2018-10-24		New version
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## 1. Purpose of this document

This document describes the method to download SDK for SIM8950 series smart module. For Android version above 7.0, SDK includes two parts: Google standard Android and SIM8950 dependent SDK. Please download these two parts and integrate together. If customer requires for Android version below 7.0, please contact us directly for downloading address.

## 2. Install tools

### 2.1 Install curl tool

Use apt-get install curl tool, the command is as follow:

```
sudo apt-get install curl
```

### 2.2 Install repo tool

Use curl to download and install repo, the command is as follow:

```
sudo curl http://commondatastorage.googleapis.com/git-repo-downloads/repo
```

### 2.3 Install git

Use apt-get install git, the command is as follow:

```
sudo apt-get install git
```

## 3. Configure the user name and mailbox

```
sudo git config --global user.email "your@example.com"
```

```
sudo git config --global user.name "Your Name"
```

## 4.Download code

### 4.1.Download Google Standard Android code

Use repo command to download code from Google platform.

```
1.repo init -u git://codeaurora.org/platform/manifest.git -b release -m LA.UM.5.6.r1-05300-89xx.0.xml
--repo-url=git://codeaurora.org/tools/repo.git
```

2.repo sync

```
Get git://codeaurora.org/tools/repo.git
remote: Counting objects: 4039, done.
remote: Total 4039 (delta 0), reused 0 (delta 0)
Receiving objects: 100% (4039/4039), 853.86 KiB | 139.00 KiB/s, done.
Resolving deltas: 100% (2748/2748), done.
From git://codeaurora.org/tools/repo
* [new branch]      aosp-new/maint -> origin/aosp-new/maint
* [new branch]      aosp-new/master -> origin/aosp-new/master
* [new branch]      aosp-new/stable -> origin/aosp-new/stable
* [new branch]      caf-stable -> origin/caf-stable
* [new branch]      master -> origin/master
* [new branch]      stable -> origin/stable

repo sync
remote: Counting objects: 6, done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 6 (delta 2), reused 0 (delta 0)
Unpacking objects: 100% (6/6), done.
From git://codeaurora.org/platform/manifest
 4e0a717..73f5010 aosp-new/oreo-mr1-vts-release -> origin/aosp-new/oreo-mr1-vts-release
 7bfdca2..c755a68 aosp-new/oreo-vts-release -> origin/aosp-new/oreo-vts-release
Fetching projects: 0% (2/509) remote: Counting objects: 282690, done.
remote: Compressing objects: 100% (81588/81588), done.
remote: Total 282690 (delta 197908), reused 282286 (delta 197659)
Receiving objects: 100% (282690/282690), 61.99 MiB | 142.00 KiB/s, done.
Resolving deltas: 100% (197908/197908), done.

Checking out files: 100% (45/45), done.
Checking out files: 100% (188/188), done.
Checking out files: 100% (243/243), done.
Checking out files: 100% (3108/3108), done.
Checking out files: 100% (3190/3190), done.
Checking out files: 100% (4197/4197), done.
Checking out files: 100% (242/242), done.
Checking out files: 100% (244/244), done.
Checking out files: 100% (924/924), done.
Checking out files: 100% (72151/72151), done.
Checking out files: 100% (4864/4864), done.
Checking out files: 100% (1021/1021), done.
Checking out files: 100% (2459/2459), done.
Checking out files: 100% (13/13), done.
Checking out files: 100% (24374/24374), done.
Syncing work tree: 100% (548/548), done.
```

*When “Syncing work tree...done”(as shown and marked below)is shown on the screen, it indicates that the downloading of Google standard Android Code has been completed.*

## 4.2. Download SIM8950 series SDK and patches

SIMcom provides an FTP URL with username and password for downloading SIM8950 dependent SDK and patches as follows:

**Host:** 117.131.85.139

**Username:** SIMCom-cust1

**Password:** Abc123!

**Port:** 21

```
lftp sim.bu1:simcom@2016@116.247.119.
165:21
lftp sim.bu1@116.247.119.165:~> ls
drw-rw-rw-  1 user      group           0 May 21 19:37 .
drw-rw-rw-  1 user      group           0 May 21 19:37 ..
-rw-rw-rw-  1 user      group      223340 May 14 11:07 7000U_remote_upgrade_firm
ware_00.bin
-rw-rw-rw-  1 user      group      223340 May 14 11:03 7000U_remote_upgrade_firm
ware_01.bin
-rw-rw-rw-  1 user      group      284312 Oct 18 2017 7000uZWE1018_2_U.bin
-rw-rw-rw-  1 user      group      284312 Oct 18 2017 7000uZWE1018_U.bin
drw-rw-rw-  1 user      group           0 May 12 11:54 8909_511
drw-rw-rw-  1 user      group           0 May 22 10:17 8909_7120
drw-rw-rw-  1 user      group           0 May 14 17:18 8909_810
drw-rw-rw-  1 user      group           0 May 10 14:44 8937_7120
drw-rw-rw-  1 user      group           0 May  8 16:04 8953_7120
drw-rw-rw-  1 user      group           0 May 21 21:33 8953_810
```

After login, customer can get patch from the platform directory. For example:

```
lftp sim.bu1@116.247.119.165:/8953_7120/8950> ls
drw-rw-rw-  1 user      group           0 Jul 17 19:02 .
drw-rw-rw-  1 user      group           0 Jul 17 19:02 ..
-rw-rw-rw-  1 user      group      1278821 Jul  9 15:54 80_P9168_1_C_QTI_Logkit_LA_3_0_User_Guide.pdf
-rw-rw-rw-  1 user      group      45800157 May 25 11:15 Non_HLOS.tar.gz
-rw-rw-rw-  1 user      group      2789712 May 30 10:21 SIM890X_Driver_Installation_V01.pdf
-rw-rw-rw-  1 user      group      831617019 Jun 20 15:02 SIM8950_180620_userdebug.zip
-rw-rw-rw-  1 user      group      1167608 Jul  9 15:16 SIM89X0_Series_Environment&Compilation&Burning_Guide_V1.00.docx
-rw-rw-rw-  1 user      group      13882194 Jul  9 15:04 cross2_win_usb_driver.zip
-rw-rw-rw-  1 user      group      2639129 Jul  9 15:44 logkit_la.3.0_files_00013.7.zip
-rw-rw-rw-  1 user      group      1281348598 May 25 11:00 proprietary.tar.gz
-rw-rw-rw-  1 user      group      418591458 May 25 11:18 simcom.tar.gz
```

## 4.3. Merge patch to Google Android code

1. Extract patch(simcom.tar.gz).



```
tar -xvzf simcom.tar.gz
simcom/
simcom/sim8950_evb_32b.sh
simcom/sim8950_cit/
simcom/sim8950_cit/packages/
simcom/sim8950_cit/packages/services/
simcom/sim8950_cit/packages/services/Telephony/
simcom/sim8950_cit/packages/services/Telephony/res/
simcom/sim8950_cit/packages/services/Telephony/res/values/
simcom/sim8950_cit/packages/services/Telephony/res/values/strings.xml
simcom/sim8950_cit/packages/services/Telephony/res/values-zh-rCN/
simcom/sim8950_cit/packages/services/Telephony/res/values-zh-rCN/strings.xml
simcom/sim8950_cit/packages/services/Telephony/src/
simcom/sim8950_cit/packages/services/Telephony/src/com/
simcom/sim8950_cit/packages/services/Telephony/src/com/android/
simcom/sim8950_cit/packages/services/Telephony/src/com/android/phone/
```

2. Copy simcom\_patch directory to Google Standard Android code.

abi	build	developers	external	libcore	Non-HLOS	platform_testing	<b>simcom</b>	vendor
art	build.sh	development	frameworks	libnativehelper	out	prebuilts	system	
bionic	cts	device	hardware	Makefile	packages	sdk	toolchain	
bootable	dalvik	docs	kernel	ndk	pdh	shortcut-fe	tools	

3. Enter into simcom\_patch, run "sim895X\_\*-copy.sh", the commands is as below.

```
sh sim895X_*-copy.sh
```

```
start copy prj sim8950...
copy prj sim8950 success
```