

SC20 Android SDK Download User Guide

Smart LTE Module Series

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Our aim is to provide customers with timely and comprehensive service. For any assistance, please contact our company headquarters:

Quectel Wireless Solutions Co., Ltd.

7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China

Tel: +86 21 5108 6236

Email: info@quectel.com

Or our local office. For more information, please visit:

<http://quectel.com/support/sales.htm>

For technical support, or to report documentation errors, please visit:

<http://quectel.com/support/technical.htm>

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About the Document

History

Revision	Date	Author	Description
1.0	2016-09-26	Chapin FANG	Initial
1.1	2017-02-24	Chapin FANG	<ol style="list-style-type: none">1. Provided an example in Chapter 3.1 to show the accomplishment of Google standard Android SDK download.2. Updated the FTP login information (username, password, etc.) for SC20 platform dependent SDK downloading (Chapter 3.2).3. Added the SDK download paths for SC20-CE, SC20-E and SC20-W (Chapter 4.1~4.3).
1.2	2017-10-17	Kyle GAO	<ol style="list-style-type: none">1. Modified SC20 SDK download instruction.2. Added Android 7.1.2 SDK.
1.3	2018-04-08	Kyle GAO	Updated SDK download method (changed from FTP server into SharePoint site) and paths

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1 Introduction

This document mainly introduces how to download Quectel SC20 module's Android SDK. SC20 Android SDK includes two parts: Google standard Android SDK and SC20 platform dependent SDK. Customers have to download the two parts separately, and then merge them together. The following chapters provide details on how and where to download these SDKs.

2 Install Download Tools

It is recommended to download SC20 Android SDK based on Ubuntu system.

1. Before downloading, it is needed to install the following tools on Ubuntu.

- Install the curl tool

```
sudo apt-get install curl //Install curl tool
```

- Install repo tool

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

- Install git tool

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

2. Configure user email and name

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

3 SC20 SDK Download Demo

3.1. Google Standard Android SDK Download

Use repo command to pull code from Google platform.

```
repo init -u git://codeaurora.org/platform/manifest.git -b release -m XXX.xml
--repo-url=git://codeaurora.org/tools/repo.git --repo-branch=caf-stable
repo sync
```

NOTE

The above is only a reference example for the repo command. For the detailed command of corresponding models, please refer to **Chapter 4**.

```
smart1@smart1-build:~/code/tmp_code$ sudo repo init -u git://codeaurora.org/platform/manifest.git -b release -m LA.BR.1.2.3-10210-8x09.0.xml --repo-url=git://codeaurora.org/tools/repo.git --repo-branch=caf-stable
Get git://codeaurora.org/tools/repo.git
remote: Counting objects: 3614, done.
remote: Total 3614 (delta 0), reused 0 (delta 0)
Receiving objects: 100% (3614/3614), 795.07 KiB | 0 bytes/s, done.
Resolving deltas: 100% (2434/2434), 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
```

```
smart1@smart1-build:~/code/tmp_code$ sudo repo sync
Fetching project platform/prebuilts/clang/linux-x86/mips/3.3
Fetching project platform/external/opencv
remote: Counting objects: 10459, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 10459 (delta 1), reused 0 (delta 0)
Receiving objects: 100% (10459/10459), 2.62 MiB | 0 bytes/s, done.
Resolving deltas: 100% (8977/8977), 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 SDK has been completed.

```

Fetching project platform/external/naver-fonts
Fetching projects: 98% (516/526) Fetching project platform/hardware/qcom/gps
Fetching project platform/external/tcpdump
Fetching project platform/packages/apps/BasicSmsReceiver
Fetching project platform/frameworks/ex
Fetching project platform/prebuilts/clang/darwin-x86/3.2
Fetching projects: 99% (521/526) Fetching project platform/external/fonttools
Fetching project platform/external/droiddriver
Fetching project platform/external/contrack-tools
Fetching project platform/external/sepolicy
Fetching project platform/external/chromium_org/third_party/brotli/src
Fetching projects: 100% (526/526), done.
Syncing work tree: 100% (525/525), done.
    
```

3.2. SC20 Platform Dependent SDK Download

Quectel creates a SharePoint document library for customers to download SC20 platform dependent SDK. Customers need to provide an email address of their project manager for SC20, and then Quectel will create a SharePoint account with this email address. Moreover, if there is an important patch update, Quectel will send it to this email address.

After login, please enter *SC20/SC20_AndroidSDK/* folder and then select the corresponding Android version, thus to get the *SC20_Androidx.x.x_Quectel_SDK_xxx.tar.gz* which is just the platform dependent SDK.

Files > Public > SC20 > SC20_AndroidSDK

Name ↑	Modified	Modified By	File Size	Sharing
Android5.1.1	January 16	reagan.li		Shared
Android6.0.1	January 8	reagan.li		Shared
Android7.1.2	January 8	reagan.li		Shared

Figure 1: SC20 Android SDK Directory

NOTE

For the detailed download path of corresponding models, please refer to **Chapter 4**.

3.3. Merge Two SDKs

1. Extract `SC20_Androidx.x.x_Quectel_SDK_xxx.tar.gz` (SC20 platform dependent SDK package) by using the command below.

```
tar zxvf SC20_Androidx.x.x_Quectel_SDK_xxx.tar.gz
```

```
root@smart-git:~/patch_code# ls  
bootable  build  device  external  frameworks  kernel  packages  vendor
```

2. Google Standard Android SDK

```
root@smart-git:~/google_android# ls  
abi      build.sh  device    kernel    ndk      sdk  
art      cts      docs     libcore  out      system  
bionic   dalvik   external  libnativehelper  packages  tools  
bootable developers frameworks log       pdk      vendor  
build    development hardware  Makefile  prebuilts
```

3. Copy the extracted files to Google standard Android SDK forcibly, to cover the files with the same name.

```
cp -rf patch_code/* google_android/
```

4 SC20 SDK Download Paths

4.1. Android 5.1.1 SDK Download

If SC20 modules of R01/R02 firmware version are used, then Android 5.1.1 SDK such as *SC20CEQAR01Axx*, *SC20CEPBR01Axx* or *SC20WSAR01Axx* should be used.

- Use the repo command below to acquire Google standard Android SDK for SC20 modules of R01/R02 firmware version:

```
repo init -u git://codeaurora.org/platform/manifest.git -b release -m LA.BR.1.2.3-10210-8x09.0.xml  
--repo-url=git://codeaurora.org/tools/repo.git --repo-branch=caf-stable
```

- Platform dependent SDK download path (from SharePoint):

SC20/SC20_AndroidSDK/Android5.1.1/SC20_Android5.1.1_Quectel_SDK_xxx.tar.gz

4.2. Android 6.0.1 SDK Download

If SC20 modules of R04 firmware version are used, then Android 6.0.1 SDK such as *SC20ESAR04Axx*, *SC20ASAR04Axx*, *SC20AUSAR04Axx*, *SC20JSAR04Axx* or *SC20WSCR04Axx* should be used.

- Use the repo command below to acquire Google standard Android SDK for SC20 modules of R04 firmware version:

```
repo init -u git://codeaurora.org/platform/manifest.git -b release -m  
caf_AU_LINUX_ANDROID_LA.BR.1.2.7_RB1.06.00.01.208.053.xml  
--repo-url=git://codeaurora.org/tools/repo.git --repo-branch=caf-stable
```

- Platform dependent SDK download path (from SharePoint):

SC20/SC20_AndroidSDK/Android6.0.1/SC20_Android6.0.1_Quectel_SDK_xxx.tar.gz

4.3. Android 7.1.2 SDK Download

If SC20 modules of R06 firmware version are used, then Android 7.1.2 SDK such as *SC20CEQAR06Axx*, *SC20ASAR06Axx*, *SC20ESAR06Axx*, *SC20JSAR06Axx*, *SC20AUSAR06Axx*, or *SC20WSCR06Axx* should be used.

- Use the repo command below to acquire Google standard Android SDK for SC20 modules of R06 firmware version:

```
repo init -u https://source.codeaurora.org/quic/la/platform/manifest.git -b release -m  
LA.BR.1.2.9-04610-8x09.0.xml --repo-url=git://codeaurora.org/tools/repo.git --repo-branch=caf-stable
```

- Platform dependent SDK download path (from SharePoint):

SC20/SC20_AndroidSDK/Android7.1.2/SC20_Android7.1.2_Quectel_SDK_xxx.tar.gz