



QR&P90 development environment manual

modification record

version	Modification record	author	data
1.0.0	create	gengchengyang	2019-01-01

Install development tools

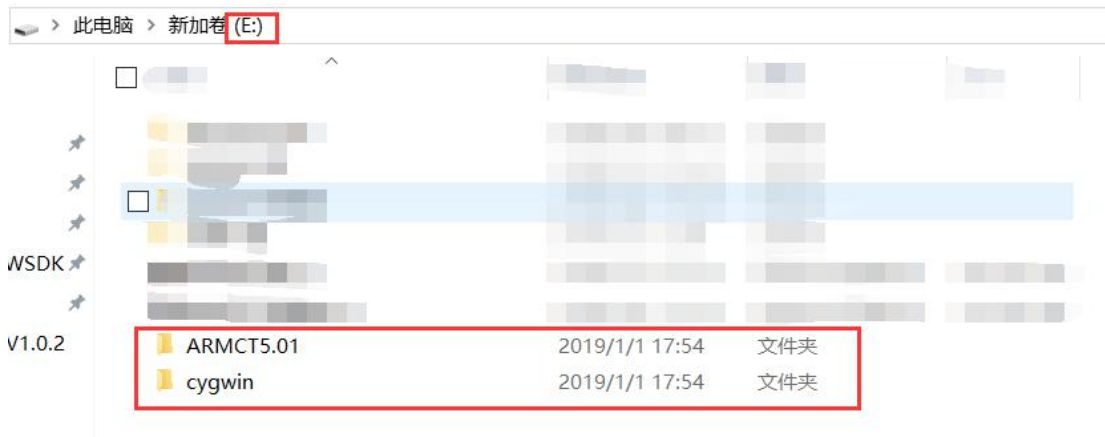
1. Download resource packages

Download URL: <https://pan.baidu.com/s/1WrAxV2dayNCJM4mUyMOSxA>

Download Password: hpwf

Unzip "cygwin.rar" and "ARMCT5.01.rar" to "E:\". If packages were not unzipped to "E:\", configuration file in relevant project need to be modified. Recommend "E:\" as the unzip path.

as shown below:



2. Install Python-2.7.6.msi

It is used to run configuration or cmd scripts in the project.

You can find the installation file in the development tools package, or downloading from the internet.

Config development environment

Config the development tool chain in the root directory file named envsetup.cmd.

As shown below:

```

envsetup.cmd
1  ::#####
2  ::# Shanghai Basewin Technology Co.,Ltd.
3  ::# All Rights Reserved 2017
4  ::#####
5  :: environment:
6  :: - Cygwin64 (with CMake)
7  :: - ARMCT5.01 (Or RVCT)
8
9  @echo off
10 @echo -----
11 @echo ENV Setup
12 @echo -----
13 @set SRC_ROOT=%~dp0
14
15 @set CYGPATH=D:\cygwin64\bin\cygpath.exe
16 @set TOOLCHAIN_ROOT_PATH=/cygdrive/D/ARMCT5.01/94
17 @set path=D:\cygwin64\bin;D:\ARMCT5.01\94\bin;%SRC_ROOT%\tools;%path%
18
19 :: Enter the application name here
20 @echo -----
21 @echo Default APP Name: showAPP
22 @echo Please modify APP_NAME in envsetup.cmd
23 @echo -----
24 @set APP_NAME=showAPP
25

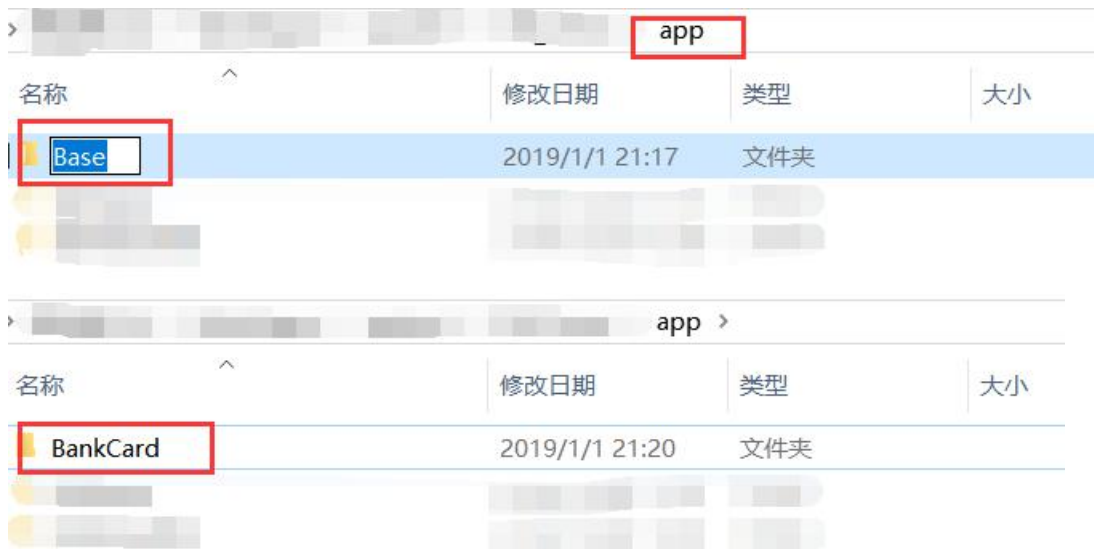
```

Introduce development environment directory

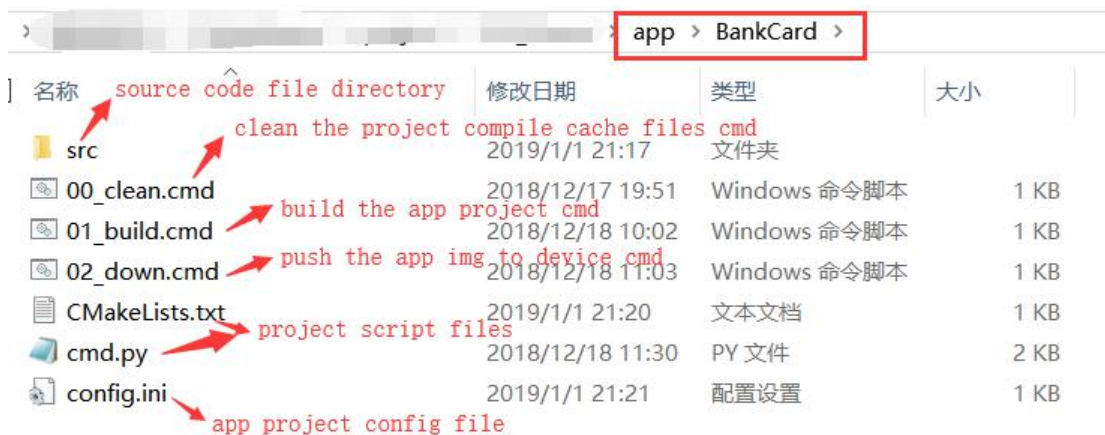
1. `app` - application project directory, create your own app here.
2. `config` - system cmake config files directory.
3. `doc` - api mannul directory.
4. `sdk` - system libs and include header files directory.
5. `tools` - development tools directory.
6. `others` - build and cmd script files.

Create your own application

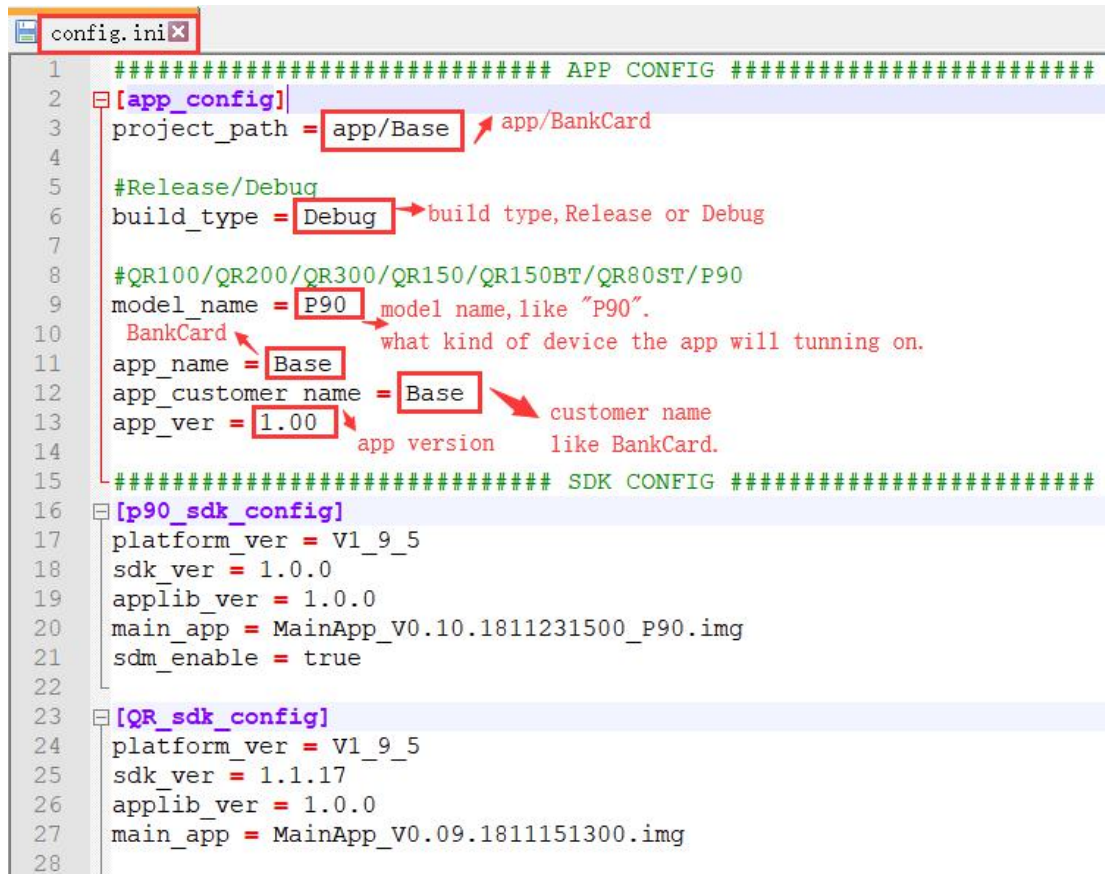
1. Create the application based on “Base” project in app directory, rename the project directory as you want.



2. Enter application project directory to find the project configuration file named “config.ini”.



3. Open and modify as follow:

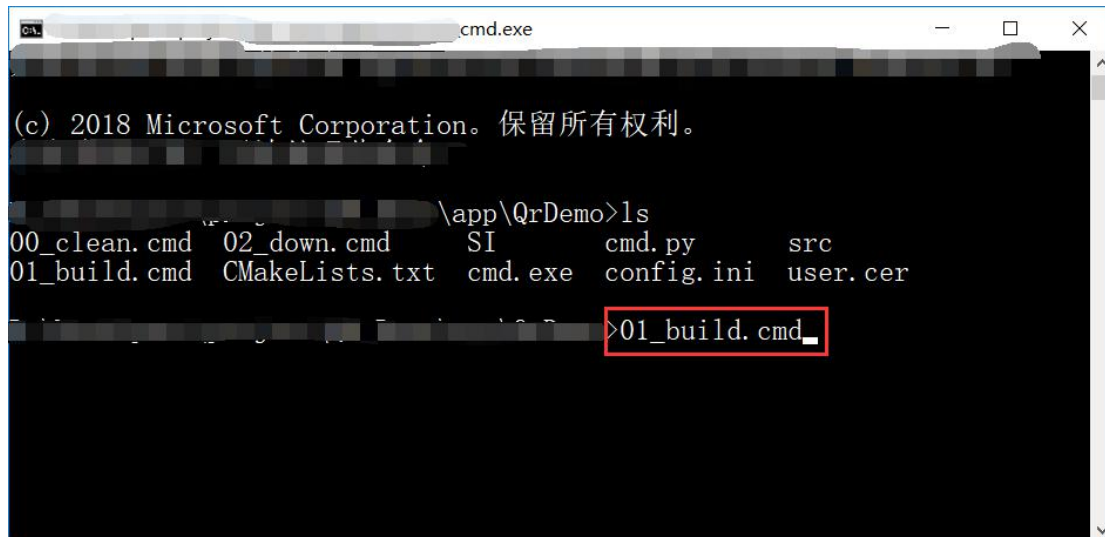


```

1 ##### APP CONFIG #####
2 [app_config]
3 project_path = app/Base → app/BankCard
4
5 #Release/Debug
6 build_type = Debug → build type, Release or Debug
7
8 #QR100/QR200/QR300/QR150/QR150BT/QR80ST/P90
9 model_name = P90 → model name, like "P90".
10 BankCard → what kind of device the app will running on.
11 app_name = Base
12 app_customer_name = Base → customer name
13 app_ver = 1.00 → app version like BankCard.
14 ##### SDK CONFIG #####
15
16 [p90_sdk_config]
17 platform_ver = V1_9_5
18 sdk_ver = 1.0.0
19 applib_ver = 1.0.0
20 main_app = MainApp_V0.10.1811231500_P90.img
21 sdm_enable = true
22
23 [QR_sdk_config]
24 platform_ver = V1_9_5
25 sdk_ver = 1.1.17
26 applib_ver = 1.0.0
27 main_app = MainApp_V0.09.1811151300.img
28

```

4. Programm your application code file form “main_code.c” with development mannul.
5. Compile your project with “01_build.cmd” script.



```

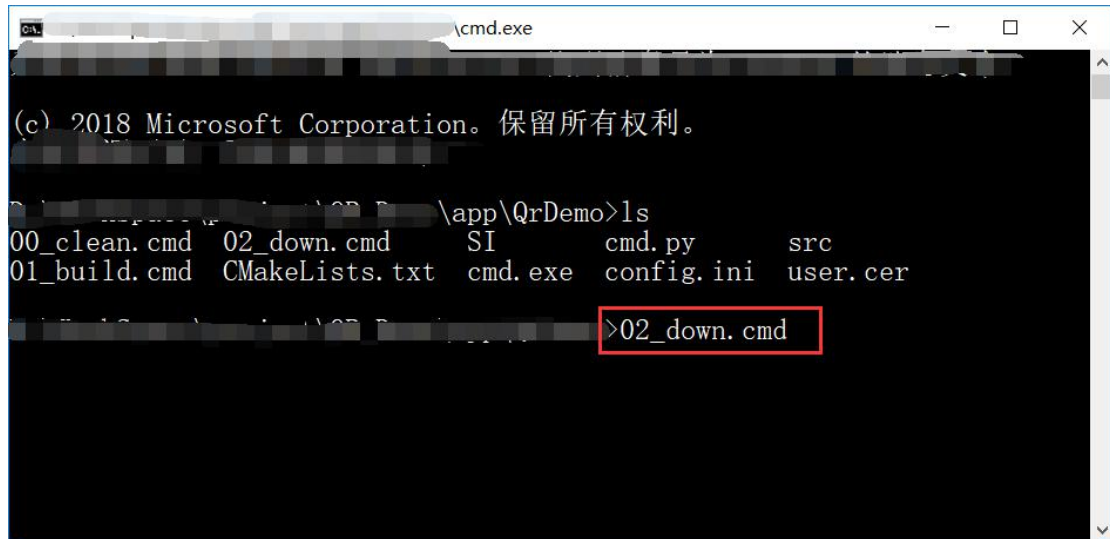
(c) 2018 Microsoft Corporation. 保留所有权利。

C:\app\QrDemo>ls
00_clean.cmd  02_down.cmd  SI          cmd.py      src
01_build.cmd  CMakeLists.txt  cmd.exe    config.ini  user.cer

C:\app\QrDemo>01_build.cmd

```

6. Push the app img file to device with “02_down.cmd” script.



```
cmd.exe

(c) 2018 Microsoft Corporation。保留所有权利。

D:\app\QrDemo>ls
00_clean.cmd  02_down.cmd  SI      cmd.py      src
01_build.cmd  CMakeLists.txt  cmd.exe  config.ini  user.cer

>02_down.cmd
```

Notice: All the scripts need running in cmd.exe with administrator authority!



Icon	Application Name	Open Time	Type	Size
	cmd.exe	2018/4/12 7:34	应用程序	268 KB