全 志 科 技
Allwinner Technology

DragonMAT

User Guide/v1.0.0

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Document Resume

Version	Date	Author	Content
1.0.0	2018-05-3	Yorick	Create

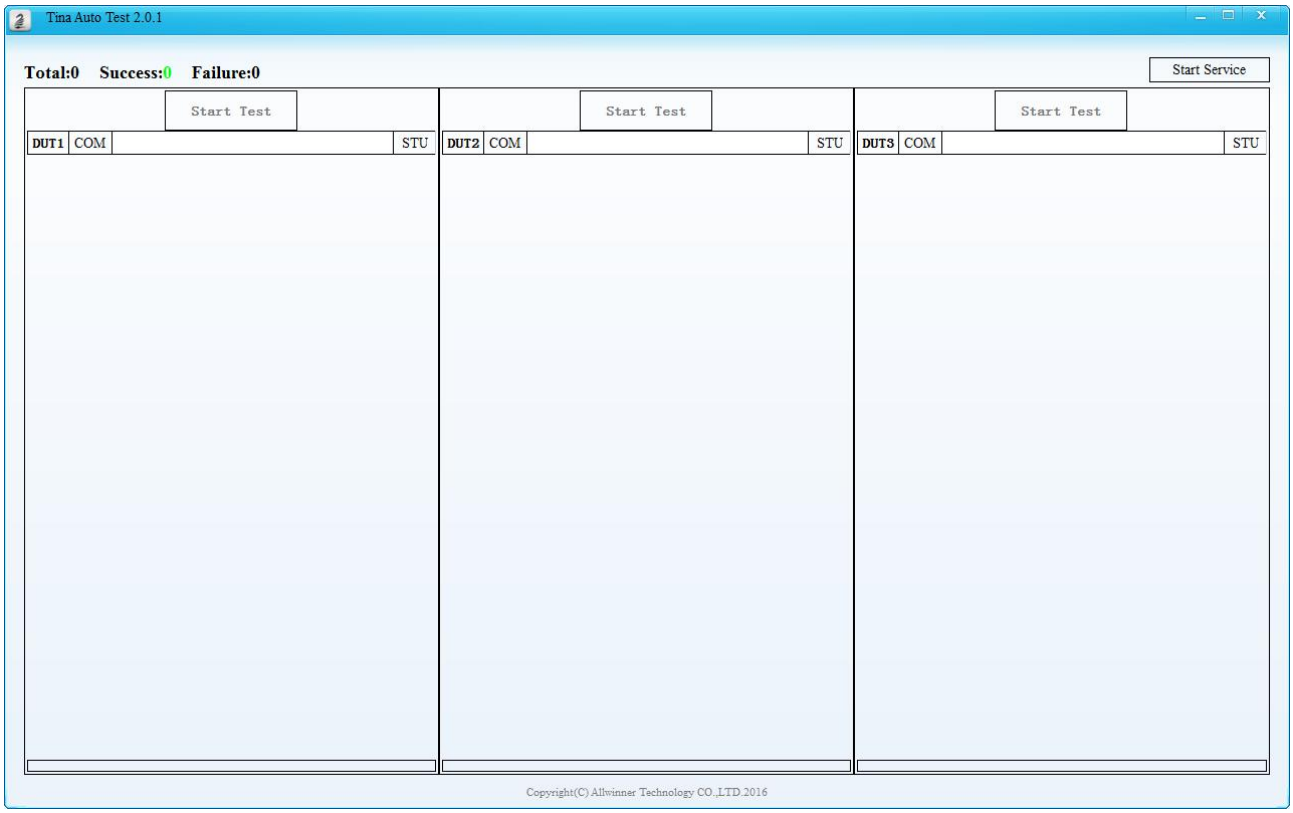
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1. Summary

DragonMAT is an automatic test system based on ADB (Android Debug Bridge) communication, which is connected with the device terminal of the AATP (Allwinner Auto Test Protocol) protocol to realize the automated system of parallel and multi case parallel test. The tester uses the tool operation very simply, lets the tester concentrate more on the equipment test.

Research and development personnel based on the testing framework can carry out a very rich custom test items, the system provides high - throughput development interfaces, specifically please consult your technical support.

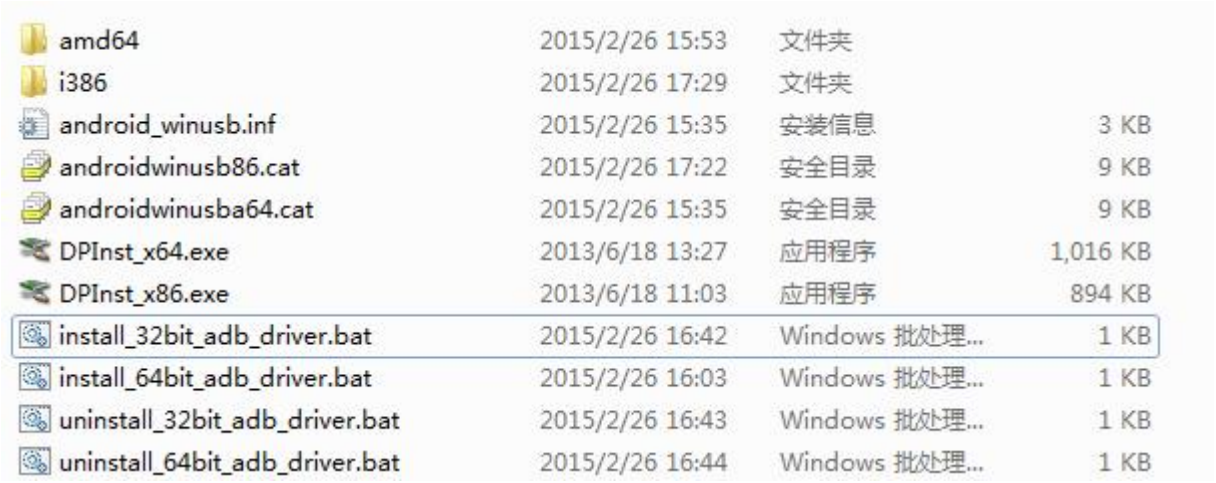


2. Functional Operation Process

2.1. Precondition preparation

DragonMAT rely on ADB for communication. The toolkit provides ADB driver installation methods. If the PC terminal does not install ADB drivers, the system will not work. So before using the tool, please confirm whether PC has installed ADB driver. If not installed, you can complete the driver installation according to the following steps:

1. Enter named “drivers” subdirectory under the tool directory
2. Find “usb_driver.zip”,unzip it.
3. Right click on the PC end system environment “install_32bit_adb_driver.bat”或者“install_64bit_adb_driver.bat”
4. Select“run as admin”
5. Press the interface until the installation is completed

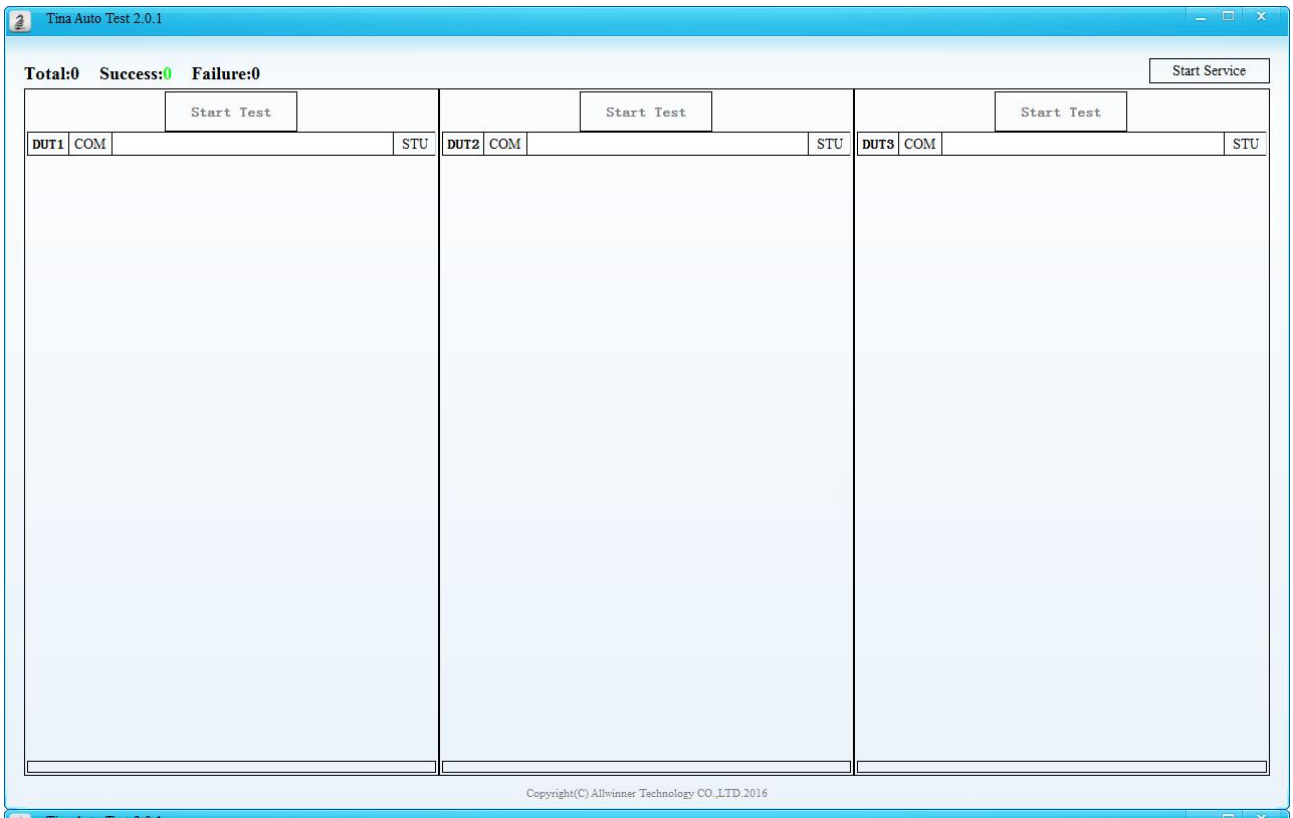


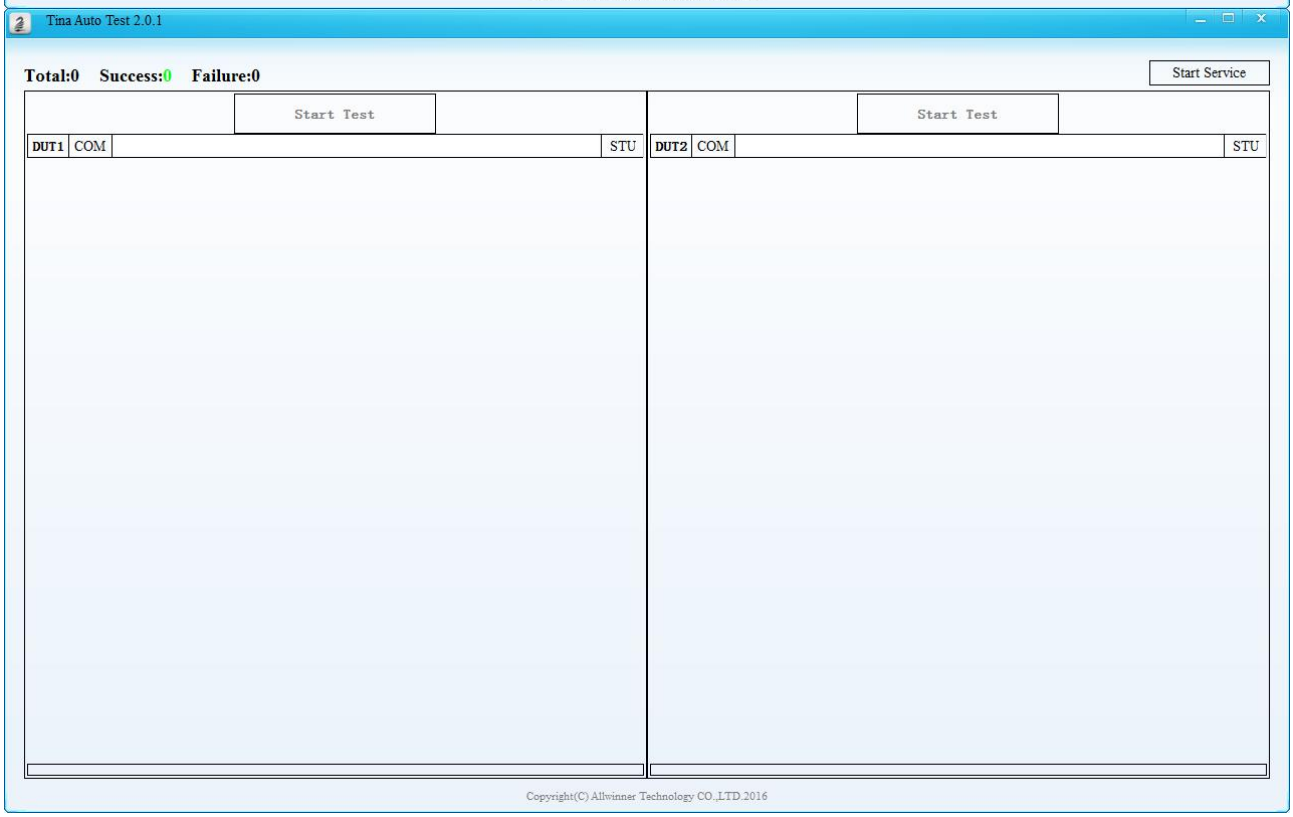
2.2. Software Configuration

Using any compiler software to open the file called "global.ini" under the tool catalog, you can complete various configurations according to your actual needs:

1. Configuring the number of simultaneous test devices：edit [base]->dut;Open “bind.ini” at the same time and edit [base]->max

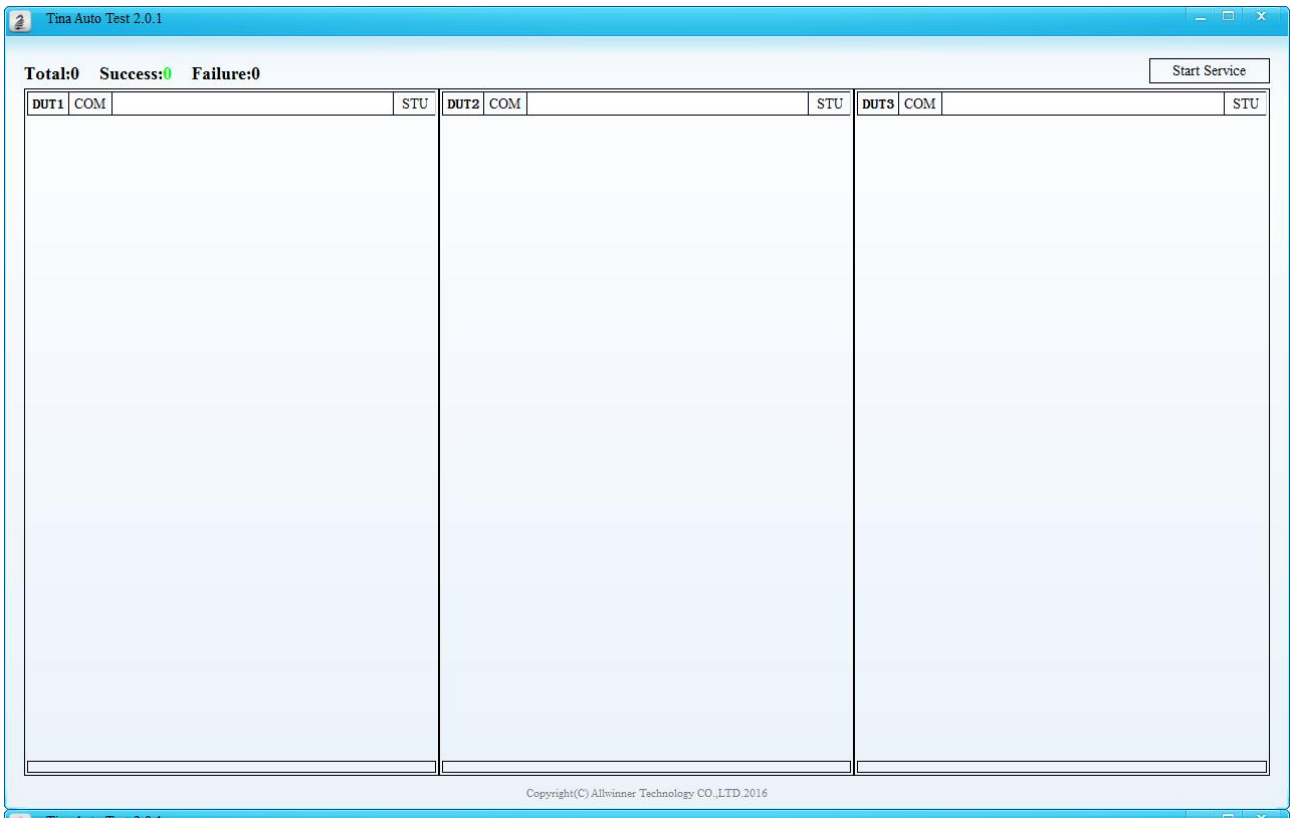
Effect:

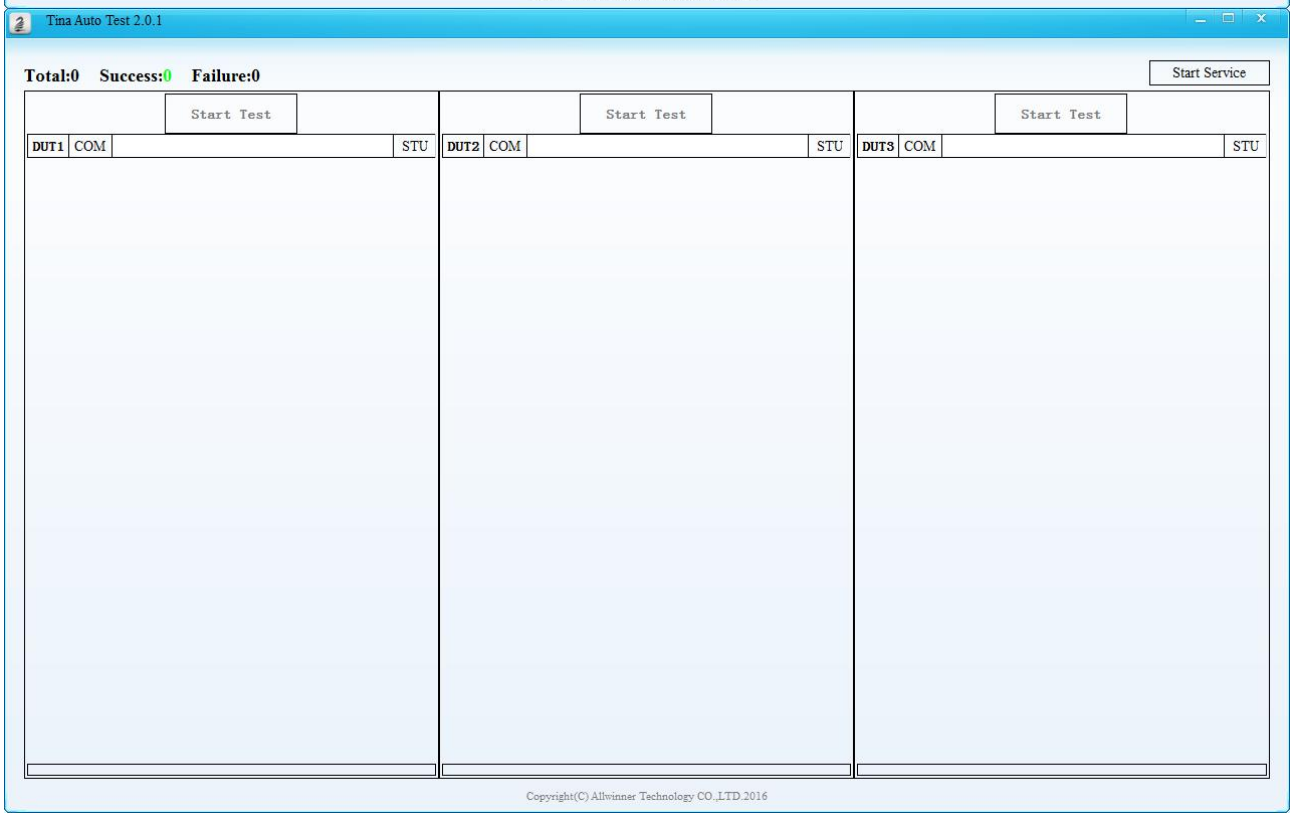




2. Configure whether to start the test manually：edit [base]->manual :0 as auto,1 as manually

Effect:





3. Clear binding information: open “bind.ini” to delete all nodes starting with COMBINE (including child nodes)

4. Configuration test abnormal decision time: modify [base]->maxtesttime, in milliseconds.

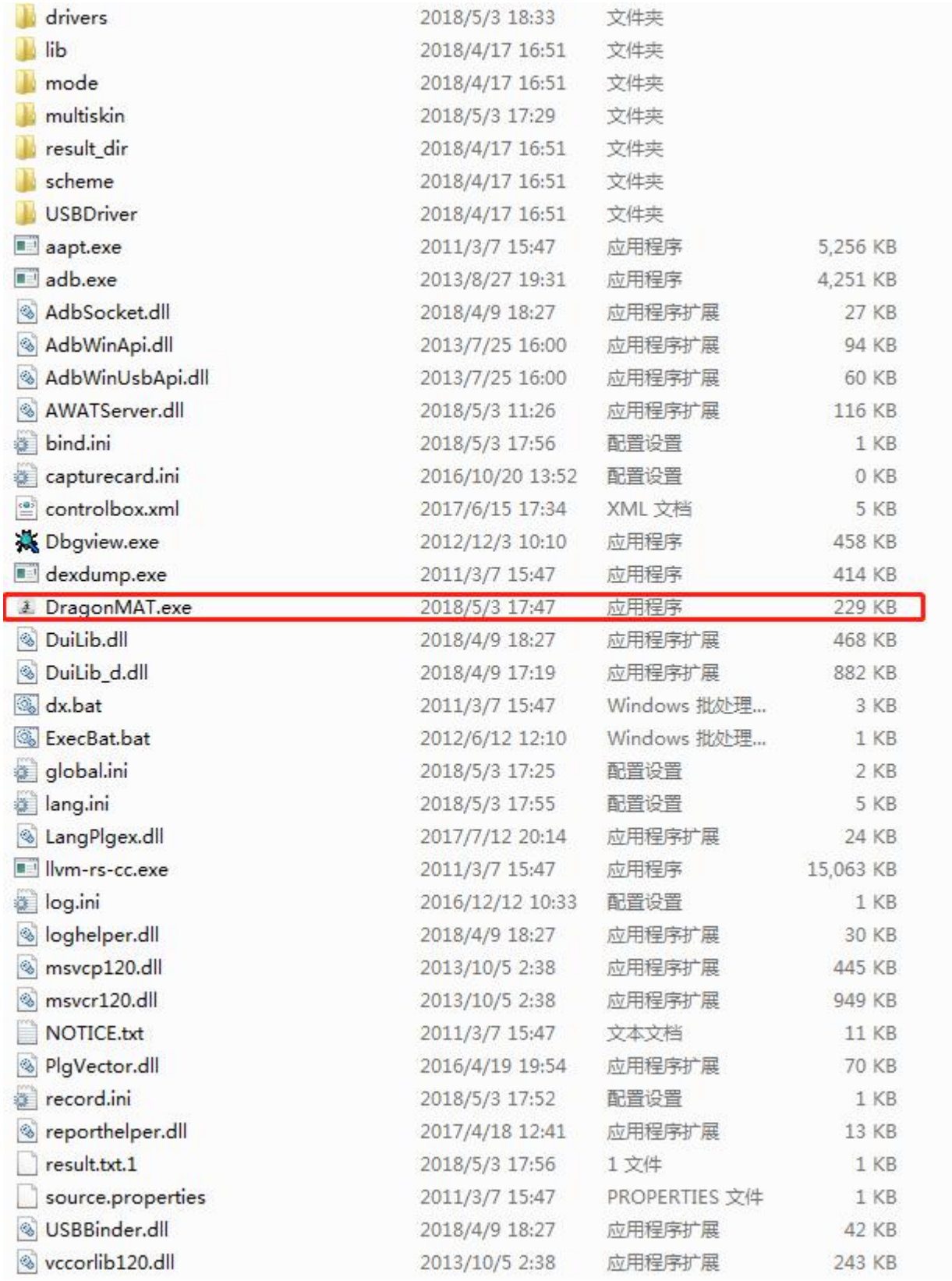
5. The way to configure device test exception: modify [base]->netexceptiondo

6. Does the configuration test continue to receive requests after completion: modify [aatp]->finishcontinue

Other configuration items should be carried out under the guidance of technical support or by default.

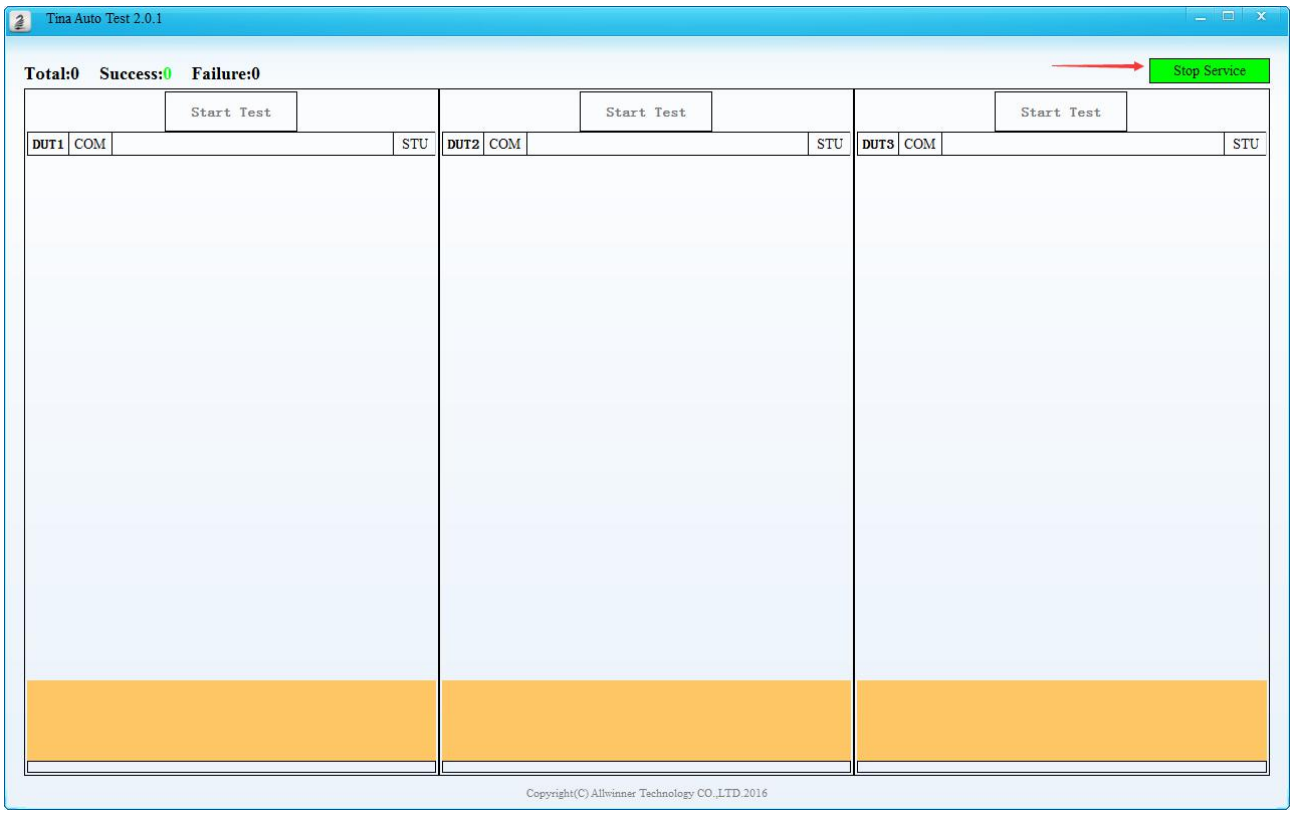
2.3. Start Service

1. Run Software



drivers	2018/5/3 18:33	文件夹	
lib	2018/4/17 16:51	文件夹	
mode	2018/4/17 16:51	文件夹	
multiskin	2018/5/3 17:29	文件夹	
result_dir	2018/4/17 16:51	文件夹	
scheme	2018/4/17 16:51	文件夹	
USBDriver	2018/4/17 16:51	文件夹	
aapt.exe	2011/3/7 15:47	应用程序	5,256 KB
adb.exe	2013/8/27 19:31	应用程序	4,251 KB
AdbSocket.dll	2018/4/9 18:27	应用程序扩展	27 KB
AdbWinApi.dll	2013/7/25 16:00	应用程序扩展	94 KB
AdbWinUsbApi.dll	2013/7/25 16:00	应用程序扩展	60 KB
AWATServer.dll	2018/5/3 11:26	应用程序扩展	116 KB
bind.ini	2018/5/3 17:56	配置设置	1 KB
capturecard.ini	2016/10/20 13:52	配置设置	0 KB
controlbox.xml	2017/6/15 17:34	XML 文档	5 KB
Dbgview.exe	2012/12/3 10:10	应用程序	458 KB
dexdump.exe	2011/3/7 15:47	应用程序	414 KB
DragonMAT.exe	2018/5/3 17:47	应用程序	229 KB
DuiLib.dll	2018/4/9 18:27	应用程序扩展	468 KB
DuiLib_d.dll	2018/4/9 17:19	应用程序扩展	882 KB
dx.bat	2011/3/7 15:47	Windows 批处理...	3 KB
ExecBat.bat	2012/6/12 12:10	Windows 批处理...	1 KB
global.ini	2018/5/3 17:25	配置设置	2 KB
lang.ini	2018/5/3 17:55	配置设置	5 KB
LangPlgex.dll	2017/7/12 20:14	应用程序扩展	24 KB
llvm-rs-cc.exe	2011/3/7 15:47	应用程序	15,063 KB
log.ini	2016/12/12 10:33	配置设置	1 KB
loghelper.dll	2018/4/9 18:27	应用程序扩展	30 KB
msvcp120.dll	2013/10/5 2:38	应用程序扩展	445 KB
msvcr120.dll	2013/10/5 2:38	应用程序扩展	949 KB
NOTICE.txt	2011/3/7 15:47	文本文档	11 KB
PlgVector.dll	2016/4/19 19:54	应用程序扩展	70 KB
record.ini	2018/5/3 17:52	配置设置	1 KB
reporthelper.dll	2017/4/18 12:41	应用程序扩展	13 KB
result.txt.1	2018/5/3 17:56	1 文件	1 KB
source.properties	2011/3/7 15:47	PROPERTIES 文件	1 KB
USBBinder.dll	2018/4/9 18:27	应用程序扩展	42 KB
vccorlib120.dll	2013/10/5 2:38	应用程序扩展	243 KB

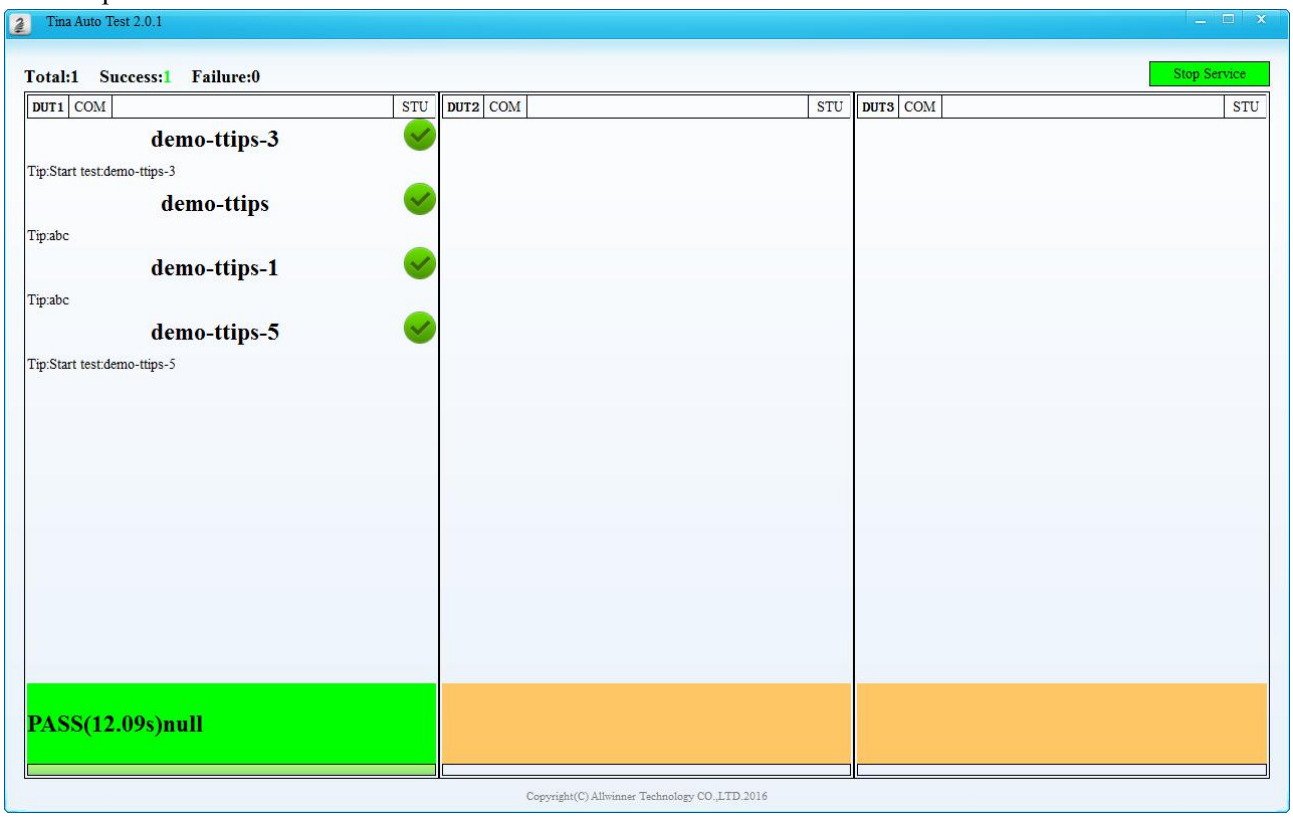
2. Click "Start Service" (before clicking to confirm that all ADB devices have been pulled out)



3. You can start plug in/plug out the device for test if you start successfully.

2.4. Result Show

During the testing process, each test and the total test result will remind the tester through the obvious color & picture:



2.5. Manual Operation

In the process of testing, if there is a project that needs to be manually operated by a tester (such as observing the result of the picture, selection, edit, custom test item, etc.), the tool end will pop up the relevant prompt information on the current device corresponding to the binding interface that the tester needs to be operated on, and assist the testers to operate according to the operation.

3. Development API

The system supports the development interface based on C API, and supports the connection of serial port binding and other operations. By this way, the R & D can embed third party auxiliary automatic test devices or sensors in the test process to achieve full automation test purposes. The specific implementation methods please consult technical support.

4. Tools abnormally reported

In the process of tool use, if there are various unknown exceptions, DragonMAT.exe and Dbgview.exe can be run at the same time in the tool directory.Copy all the Degview log information and send it to the technical support staff after exception reappearance.