

## Model Name: SMARTPERF Intelligent Pressure Testing System



SMARTPERF system is mainly testing KPI specifications with real terminals for the wireless system such as LTE, WCDMA, 3G, 4G, 5G etc.

System features:

1. SMARTPERF is built on the Android smartphone operation system, it can simulate the maximum user actual behavior in the network. Such as CS, PS, Wechat, web browsing, taobao, Twitter, etc.
2. The intelligent business dynamic load balancing capability makes it possible for single PC precise controlling as many as 64 mobile phones for testing at the same time.
3. With high scalability, SMARTPERF can be in the form of 4, 8, 16 sets to infinite extend with lower TCO.
4. With industrial-grade block processing, SMARTPERF can maximum reduce the interference between mobile phones, accurate assess the indicators of system performance
5. SMARTPERF support most wireless system such as LTE, WCDMA, 3G, 4G, 5G and support all the Android smart mobile phones and smart feature phones.
6. SMARTPERF support 7x24 hours unattended execution of test tasks, such as high and customizability test scripts
7. The user can get current test execution results through the terminals such as PC, mobile phones.

### Test solution project:

- ▶ Scene\_1: Lab Press test
- ▶ Scene\_2: Out-field press test
- ▶ Expansion test\_1: Combined with the map application(drawing KPI index on the map)
- ▶ Expansion test\_2 :Analysis the integration of network KPI
- ▶ Expansion test\_3: Large date collection
- ▶ Expansion test\_4: Network signal simulation

**Test case configuration :** Single mobile phone multiple voice call test、 Multiple mobile phone calling and called multiple voice call test、 Single mobile phone date download test、 Multiple mobile phone date download test、 Single mobile phone date upload test、 Multiple mobile phone date upload test、 Any combination of the above test cases of multiple mobile phone(Several tests can be arranged more than 500 times and multiple mobile phone can be extended 8\*N).

### Output test report:

- ▶ Date business test report
- ▶ Signal mobile phone calling test result statistics
- ▶ Multiple mobile phone calling test result statistics
- ▶ Measured the WCDMA KPI value of the base station (the index of RSCP diagram)
- ▶ Measured the LTE KPI value of the base station (the index of RSRP diagram)
- ▶ Multiple terminal connection statistics