

IRTP International Roaming Test Platform

By using 2G/3G/4G multi-RAT networking emulation to move mobile device real network roaming test into lab to improve test efficiency of roaming capability of mobile device and roaming strategy verification.

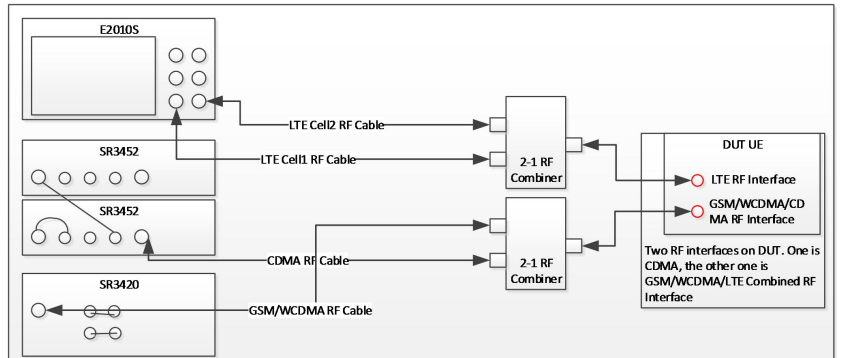
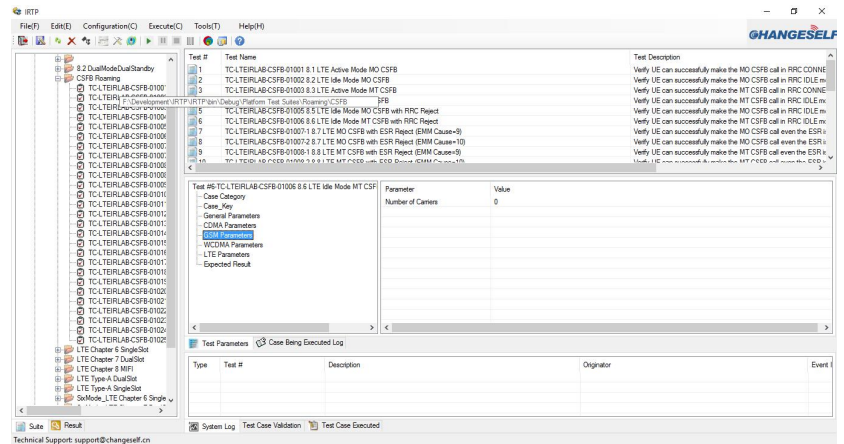
It is an automation solution based on 2G/3G/4G multi-RAT network emulator and execute test case and generate report automatically. Total solution meets the requirement of mobile devices' roaming capability and strategy test and covers design to carrier acceptance test stage.

By full control of 2G/3G/4G multi-RAT network simulator and DUT, IRTP realizes automatic test procedure, executes test case step by step and save test result in real time. By eliminating much more effort on test environment setup, test scenario configuration, test report generation etc., IRTP will solve those main problem in current test work:

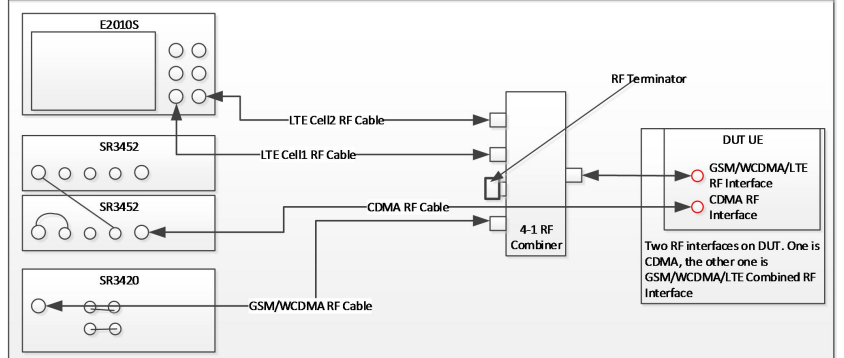
- Have to write test scrip to realize automation
- Have to record test result manually
- Manually repeat multiple test
- Time and cost consumption due to low test efficiency
- Test result confidence
- Result data management and log tracing

IRTP and 2G/3G/4G multi-RAT network simulator provides automation lab-test solution. It covers all test requirements of specified carrier roaming test IRTP is able to ensure test result accuracy, confidence and repeatable. It helps test engineer to find those possible functionality and performance related issues and verify whether the solution fix the issue found in short term. IRTP could be used in below test field:

- Carrier Acceptance
- Pre-launch Evaluation
- Product Evaluation
- Field and System Performance Analysis
- Application and functionality testing
- Function Reliability and Regression



UE with two RF interface(GSM/WCDMA/CDMA Combined RF Interface and LTE RF Interface)



UE with two RF interface(GSM/WCDMA/LTE Combined RF Interface and CDMA RF Interface)

testing

IRTP Easy test, flexible, improving efficiency of Mobile device roaming Capability Test

Key Features

- CDMA/GSM/WCDMA/LTE(FDD/TDD) roaming scenarios simulation
- Customized test case parameter for different test purpose
- Test environment is configured automatically
- Automatically setup communication with DUT
- Test profiles management
- Complete automation while running test script
- Recording test result and generate report automatically
- Covering 2G,3G, 4G terminal roaming strategy verification test
- CSFB roaming and VoLTE roaming enabled.

Product Advantages

- Automation-Save test time and improve test efficiency. Running hundreds of repeatable test without any user interaction
- Repeatable- Repeat testing for product optimization. Selection test for different types of products
- Automation test commands edit to realize fully control and monitor to DUT
- Customized test parameter configuration to meet any test scenario or requirement
- Real time saving test result and test log, generate test report automatically
- Unique test platform for any device for carrier acceptance test
- Support integrating with any network emulator
- Improve utilization of facility

The screenshot displays the IRTP software interface. The top part shows a list of test cases with columns for Case Index, Test Name, Case Title, and Status. Below this, a detailed view of a test case is shown, including its description and execution details. At the bottom, a 'Test Report Template' is visible, containing a table with the following data:

Case Index	Test Name	Case Title	Status
1	TC-IRLAB-CN515-0001_01	TC-IRLAB-CN515-0001_01 1.1.1 Case Self-availability, Maximize Testcase Desk-Work-UM	Pass
2	TC-IRLAB-CN515-0001_02	TC-IRLAB-CN515-0001_02 1.1.2 Automatic handover from CDMA to GSM network	Pass
3	TC-IRLAB-CN515-0001_03	TC-IRLAB-CN515-0001_03 1.1.3 Automatic handover from GSM to CDMA network	Pass
4	TC-IRLAB-CN515-0001_04	TC-IRLAB-CN515-0001_04 1.1.4 Network selection with extra selection	Pass
5	TC-IRLAB-CN515-0001_05	TC-IRLAB-CN515-0001_05 1.1.5 Network selection	Pass
6	TC-IRLAB-CN515-0002_01	TC-IRLAB-CN515-0002_01 1.1.2 GSM Network System Selection	Pass
7	TC-IRLAB-CN515-0003_01	TC-IRLAB-CN515-0003_01 1.1.1 Network selection from HongKong to HongKong CDMA Network	Pass
8	TC-IRLAB-CN515-0003_02	TC-IRLAB-CN515-0003_02 1.1.2 Boundary-Induced_Handover from HongKong GSM Network to HkNetwork	Pass
9	TC-IRLAB-CN515-0003_03	TC-IRLAB-CN515-0003_03 1.1.3 Boundary-Induced_Handover from HongKong CDMA Network to HkNetwork	Pass
10	TC-IRLAB-CN515-0004_01	TC-IRLAB-CN515-0004_01 1.1.4 Boundary-Induced_Handover from HongKong GSM Network to HkNetwork	Pass
11	TC-IRLAB-CN515-0004_02	TC-IRLAB-CN515-0004_02 1.1.5 Boundary-Induced_Handover from HongKong CDMA Network to HkNetwork	Pass
12	TC-IRLAB-CN515-0005_01	TC-IRLAB-CN515-0005_01 1.1.1 Searching and registration duration without network	Pass
13	TC-IRLAB-CN515-0005_02	TC-IRLAB-CN515-0005_02 1.1.2 Searching and registration duration with network	Pass
14	TC-IRLAB-CN515-0006_01	TC-IRLAB-CN515-0006_01 1.1.1 Searching and registration duration without handover	Pass
15	TC-IRLAB-CN515-0006_02	TC-IRLAB-CN515-0006_02 1.1.2 Searching and registration duration with handover	Pass
16	TC-IRLAB-CN515-0007_01	TC-IRLAB-CN515-0007_01 1.1.1 Searching and registration duration without network	Pass
17	TC-IRLAB-CN515-0007_02	TC-IRLAB-CN515-0007_02 1.1.2 Searching and registration duration with network	Pass
18	TC-IRLAB-CN515-0008_01	TC-IRLAB-CN515-0008_01 1.1.1 Searching and registration duration without handover	Pass
19	TC-IRLAB-CN515-0008_02	TC-IRLAB-CN515-0008_02 1.1.2 Searching and registration duration with handover	Pass
20	TC-IRLAB-CN515-0009_01	TC-IRLAB-CN515-0009_01 1.1.1 Searching and registration duration without network	Pass
21	TC-IRLAB-CN515-0009_02	TC-IRLAB-CN515-0009_02 1.1.2 Searching and registration duration with network	Pass
22	TC-IRLAB-CN515-0010_01	TC-IRLAB-CN515-0010_01 1.1.1 Searching and registration duration without handover	Pass
23	TC-IRLAB-CN515-0010_02	TC-IRLAB-CN515-0010_02 1.1.2 Searching and registration duration with handover	Pass
24	TC-IRLAB-CN515-0011_01	TC-IRLAB-CN515-0011_01 1.1.1 Searching and registration duration without network	Pass
25	TC-IRLAB-CN515-0011_02	TC-IRLAB-CN515-0011_02 1.1.2 Searching and registration duration with network	Pass
26	TC-IRLAB-CN515-0012_01	TC-IRLAB-CN515-0012_01 1.1.1 Searching and registration duration without handover	Pass
27	TC-IRLAB-CN515-0012_02	TC-IRLAB-CN515-0012_02 1.1.2 Searching and registration duration with handover	Pass
28	TC-IRLAB-CN515-0013_01	TC-IRLAB-CN515-0013_01 1.1.1 Searching and registration duration without network	Pass
29	TC-IRLAB-CN515-0013_02	TC-IRLAB-CN515-0013_02 1.1.2 Searching and registration duration with network	Pass
30	TC-IRLAB-CN515-0014_01	TC-IRLAB-CN515-0014_01 1.1.1 Searching and registration duration without handover	Pass
31	TC-IRLAB-CN515-0014_02	TC-IRLAB-CN515-0014_02 1.1.2 Searching and registration duration with handover	Pass
32	TC-IRLAB-CN515-0015_01	TC-IRLAB-CN515-0015_01 1.1.1 Searching and registration duration without network	Pass
33	TC-IRLAB-CN515-0015_02	TC-IRLAB-CN515-0015_02 1.1.2 Searching and registration duration with network	Pass

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