UE real network validation

Anritsu introduces automated testing of smartphones *(or UE – User equipment)* against a mobile operator's network. We used it in a lab environment with a real network (2G, 3G, LTE) and it supports handovers and switching between technologies.

When you could need it:

- **any hardware or software change in the network** the operator needs to verify if the change doesn't cause any issue in the network parameters
- **there is a new UE model to be launched on the market** the operator needs to verify if it works with the network
- **an application must be checked in a real network under specific conditions**

We know that every second and every data counts. Real-time monitoring of a radio interface, campaign testing or application's functionality with many UEs and customizable tests are available.

Within UE real network validation, you can also work with troubleshooting and analysis tools.

Input

- Predefined set of test cases and suites
- Your own defined test cases
- Automation environment test
- Managed tests on the UEs and network scenarios
- Verifying the expected results parameters in the network and applications

  (e.g. specific screen is displayed)

Output

- Signaling message and application test results stored in logs
- Tests results examined for verification and KPIs calculations
- The signaling verification based on predefined parameters
- Verification of all test steps and results from applications
- Verified and stored KPIs, stored logs, docoded and stored trace files

Results can be exported to .xls or external systems

Process

1. User selects test suites and test cases to be executed
2. Test steps are automatically executed on the UE connected to the network
3. Signaling messages are deciphered and decoded in real time
4. All tests are executed in selected technologies and scenarios

Unique features

- fully automated process
- End-to-end testing (smartphone-network-applications)
- KPIs processing and reporting
- Supports Android and iOS
- Signaling messages are deciphered and decoded in real time
- 2G, 3G, LTE and all scenarios, calls, data and applications tests covered files are decoded and stored