

XCAL-ART4

Real-Time Multi-cell / Multi-UE Air-interface Simulator

XCAL-MTS solution offers user the most flexible and reliable method for real-time load and capacity testing various type of base stations from macro eNode-B. XCAL-MTS with AIS offers various kinds of handover performance test under multi-base stations (eNode-B) environment by controlling multi-UEs. RPT-Gen makes convenient analysis environment by automated analysis algorithm. Automated regression testing solution can use time efficiently than manual regression testing. XCAL-ART4(XCAL-MTS + AIS + RPT-Gen + Automation) improves the efficiency of usage of lab hardware, software and human resources and delivers results in a fraction of time.

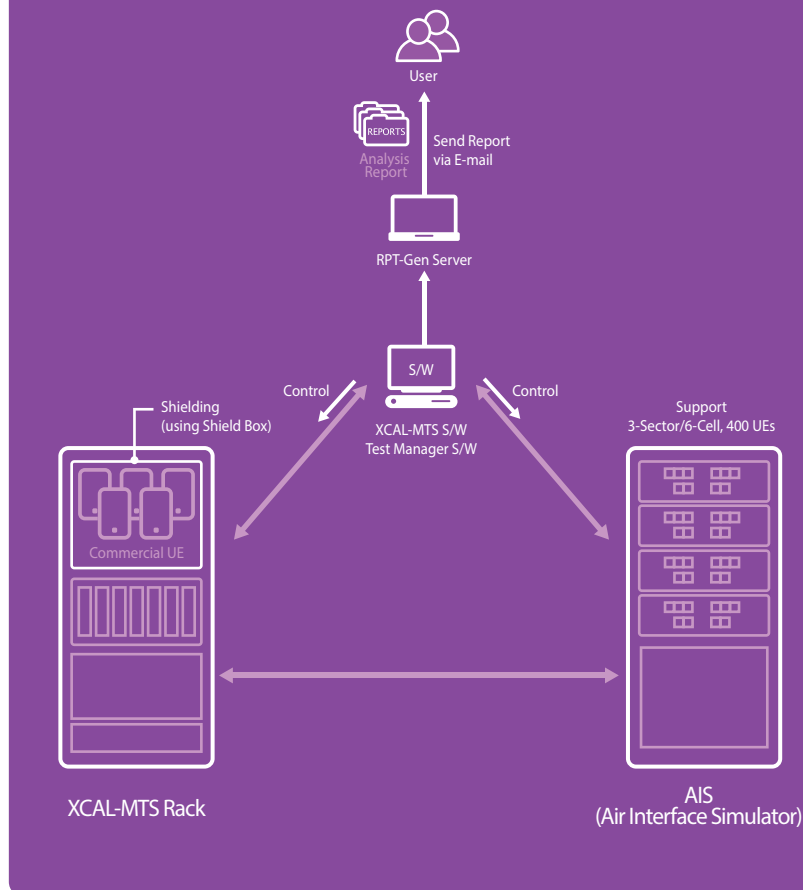
Use to

- System capacity verification in multi-UE, cell-edge, moving UE environment
- Package verification prior to customer release
- logging and analysis of SINR, RSRP, RSSI, Tx Power, RB/MCS, Throughput, etc.
- Troubleshooting with quick reproduction of problems
- System Parameter optimization of RRC, MAC, PHY
- Multi-UE Handover/Cell Reselection testing using AIS
- Repeat testing per each test case using automation scheduler
- Automatic analysis using RPT-Gen, applying algorithms per test case

Benefits

- Real-time simulation and logging in the LAB
- No need for drive-test and on-site for cluster preparation
- Efficient use of resources
- Test environment for user-defined test scenarios
- Group operation for multiple tests at the same time
- Perform test cases automatically without control by a user (Automation)
- Provides automatic analysis of event call
- Benefits of **"Real UE Test"**
 - : Good for **Reproduction Test** of Call drop/fail/issues
 - : Easy to analyze detailed causes of call events
 - : Able to test the **Real Actions of Mobiles** (Data throughput, Call performance, reaction to Rx change, etc.)
 - : Easy to use functions for testing **Handover of Multi Cells**
- M to M (Call between mobiles) test available
- MOS(Voice/Video) and Video streaming test available

System Configuration



AIS H/W Specification

Frequency Band	LTE B#5, B#8, B#3, B#7, B#1, B#38 or B#42 (Supporting up to 6 non-overlapped frequency bands)
Carrier Aggregation	Supporting up to 6-CA/2-CC
MIMO	Support 2x2 or 4x4
Max RSRP	-60dBm to -75dBm @ UE Side
Max BS	3-Sector/6-Cell
Max UE	400 Real-UE
User	Max 2-User Support(max 200-UE/User)

* Customized features per User's request

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<RPT-Gen>

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