Inter-RAT Device Testing

An automated solution for comprehensive testing of Inter-Radio Access technology (Inter-RAT) operation in LTE multi-mode devices.

APPLICATIONS

Manufacturers:
- Research & Development
- Design verification
- Performance analysis
- Benchmarking
- Regression test

Operators:
- Pre-launch evaluation
- Acceptance test
- Software regression test
- End user and network KPI analysis

For the next several years at least, LTE service will be an overlay service deployed in conjunction with existing legacy wireless service. It is critical that multi-mode devices are tested to ensure seamless mobility between access technologies; failure to do so results in higher support costs and lost revenues for both mobile device manufacturers and network operators.

The 8100 LTE Inter-RAT solution automates testing of multi-mode (LTE/CDMA/UMTS) devices. The powerful, highly-configurable Spirent network emulators integrate to seamlessly reproduce real-world system and network scenarios, yielding consistent and repeatable test results.

As a key component of Spirent’s 8100 Mobile Device Test System, the LTE Inter-RAT solution offers an open, scalable multi-purpose test system that addresses a breadth of LTE device test areas and is expandable to address test needs now and in the future.

BENEFITS

- Reduce time to market – run more tests on a single, automated platform
- Reduce device returns and customer churn through improved device quality – identify system selection issues under repeatable multi-network conditions
- Address the entire lifecycle of testing needs with a single solution – R&D, DVT, Benchmarking/Evaluation, Operator Acceptance, Applications, Regression
- Purchase only the capability you need, when you need it – offered with turnkey and user-customizable test cases and scenarios; upgradeable to RF Minimum Performance, Data Throughput, Inter-RAT, LBS and more
KEY FEATURES

- Automated testing of Inter-RAT test cases that would otherwise prove difficult
- Configurable, integrated LTE, CDMA2000/EV-DO/eHRPD and UMTS network emulation from Spirent enables multi-system, multi-generational multi-RAT scenarios
- The industry’s only complete and realistic Evolved Packet Core (EPC) emulation
- System test packs include a wide range of test cases for network operator acceptance and device manufacturers
- Powerful device automation and monitoring during testing
- Configurable parameters enable rapid generation of custom test cases

HIGHLY CONFIGURABLE SYSTEM AND NETWORK SCENARIOS

The LTE Inter-RAT solution provides a fully-configurable, controllable environment, including complete emulation of LTE, legacy UMTS, and CDMA/EV-DO (including eHRPD) networks.

The emulation also includes Spirent’s exclusive emulation of the Evolved Packet Core (EPC). This extensive emulation reaches deep into the network, ensuring realistic test scenarios which include realistic IP anchor points for Inter-RAT data testing.

Even the most complex handover scenarios can be tested in minutes. For example, all the complexities related to LTE/CDMA handovers are ready to go using Spirent’s proven eHRPD emulation.

ORDERING INFORMATION

LTE Multi-Mode System Selection testing is supported on the B200 and B300 configurations of the Spirent 8100 Mobile Device Test System.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>8100-B200</td>
<td>LTE Data Test Platform (w/ option For Meas. Gaps)</td>
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<tr>
<td>8100-B300</td>
<td>LTE RF/Data Test Platform (w/ option For Meas. Gaps)</td>
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<tr>
<td>TP-MOBLTY-LTE-TP1</td>
<td>LTE Inter-RAT Test Pack 1</td>
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</tbody>
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Please contact your regional Spirent sales representative for detailed ordering information.

SPIRENT GLOBAL SERVICES

Spirent Global Services provides a variety of professional services, support services and education services — all focused on helping customers meet their complex testing and service assurance requirements. For more information, visit the Global Services website at www.spirent.com/gs or contact your Spirent sales representative.