NITRO Wireless
Operator gNodeB Testing
A TMLite2 Application for Pre-deployment Testing

Challenges Facing Operators

5G continues to evolve and operators are under pressure on multiple fronts: managing networks delivered by multiple vendors, rolling out new architectures, handling ever-increasing data traffic, monetizing new revenue streams, and making sure that everything works properly and seamlessly. No operator wants to find problems post-launch, but operators often lack test tools that allow them to carry out end-to-end testing before go-live.

The VIAVI Solution

The TMLite2 is a software-only variant of the industry-standard TM500 Test Mobile Family that allows operators to perform a wide range of 5G NR tests pre-launch against real gNBs, including end to end data throughput and checking performance with multiple UEs. A big advantage of the solution is that it is also used by all of the leading gNB vendors so if any issues are identified it is easy to share and correlate results to speed up problem resolution.

Business Impact

The ability to identify, diagnose and correct a potential issue is vital. By doing so, an operator can reduce the risks of a delayed service launch or finding problems post-launch

Sample Use Cases

Use Case 1: Check that end to end data throughput matches expectations as new functionality and network components are introduced into the network.

Use Case 2: Check performance of OTT services such as video streaming to make sure that as the data passes across equipment from multiple vendors no errors or degradation occur.

VIAVI Benefits

✅ **Continuity with Vendors**

Common software with the industry-leading TM500 Family to avoid wasting time correlating test results with RAN vendors

✅ **TM500 Family – De Facto No. 1 Base Station Test Tool**

Used by all of the world's leading base station developers, TMLite2 provides a cost effective version that can be utilized by operators.

✅ **Scalable Solution that Protects CAPEX**

TMLite2 can be scaled to add more functionality and capability such as more UEs, lower latencies, etc. as projects develop or needs change.

Get started with TMLite2 solution

Visit: viavisolutions.com/products/tm500-network-tester

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