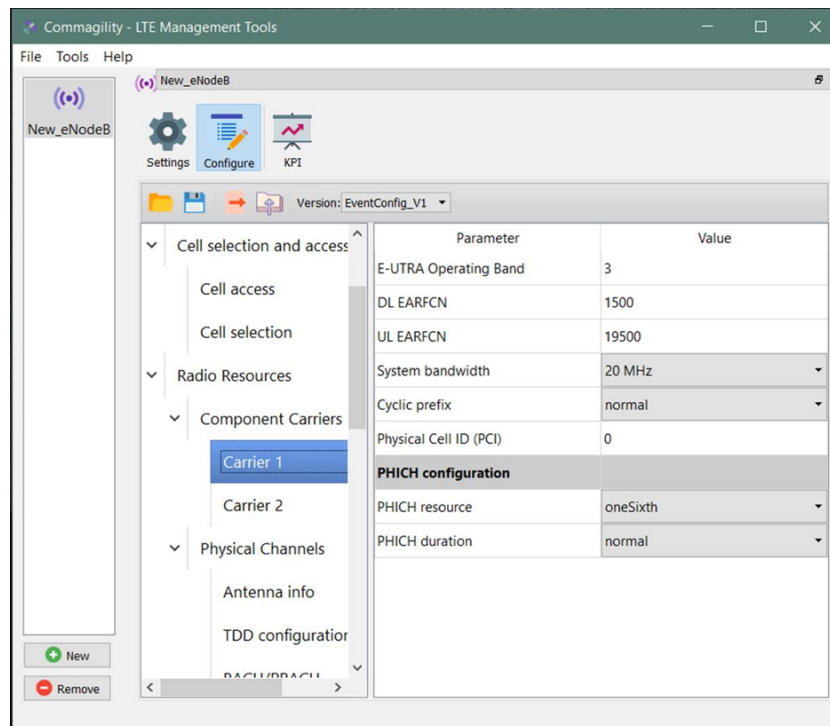


LTE Management Tool



Overview

LTE Radio Access Network product developers experience extreme pressure to deliver quality products with fastest possible time to market. During the development process, the quality and usability of tools directly impacts engineers' effectiveness. Time lost through hard to use, unstable or poorly designed tools is money lost.

CommAgility's engineers, based on years of product and project experience, have developed an LTE Management Tool for use with CommAgility's LTE Protocol Stack or Reference eNodeB and Reference UE products, that saves effort, time and cost.

Configuration

LTE eNodeB and UE product developers and testers face a substantial number of configuration options when setting up an eNodeB. Often, a text configuration file is hand-edited, which can be time consuming and, if not done correctly, could result in damage to the unit under test (UUT).

Modifying configuration parameters needs to be done with a clearly understandable interface and checks for incorrect entries. CommAgility's LTE Management Tool provides an easy to use graphical interface for managing and manipulating the hundreds of configuration parameters that are loaded by the LTE Protocol Stack on eNodeB start-up. Parameters are validated to ensure safe operation and eliminate time lost to incorrect or mis-typed data.

Monitoring

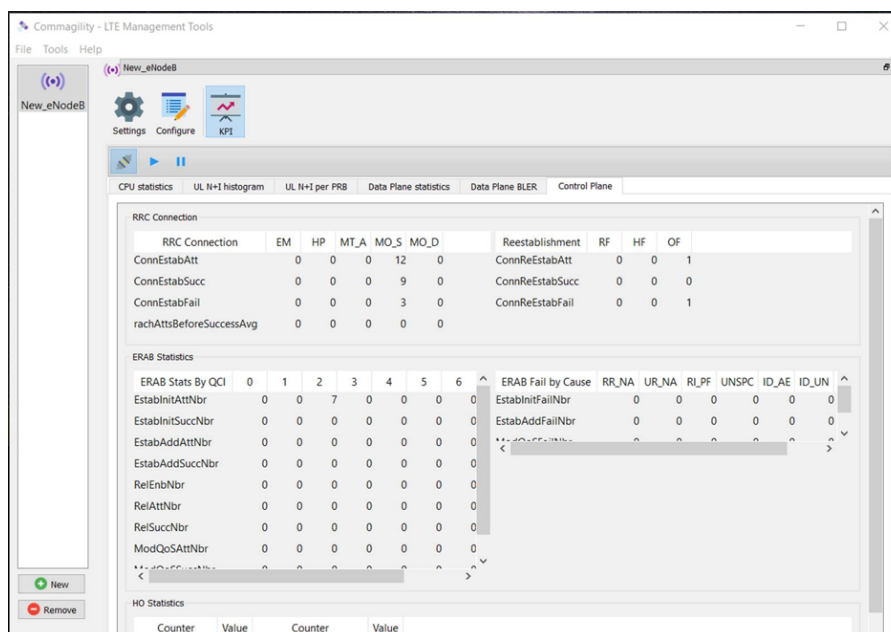
During operation of the eNodeB, it is critical to monitor and log the UUT's status information at all selected levels.

Information must be displayed in a clear, easy-to-read format that also allows quick and easy identification of critical operational data. Desired trace information can be easily configured so testers can focus on needed information for fast analysis and debugging.

Some of the parameters which can be monitored are:

- CPU Statistics
- Uplink N+1 Histogram
- Uplink N+1 per PRB
- Data Plane statistics
- Data Plane BLER
- Control Plane

The screenshot below shows an example of Control Plane data:



LTE Protocol Stack

CommAgility's SmallCellSTACK and MobileSTACK products provide complete LTE Protocol Stacks that are portable to almost any baseband chip and operating system. They are designed in ANSI C for flexibility and scalability, and are easy to customize and upgrade.

It has been pre-integrated with CommAgility's SmallCellPHY or MobilePHY on selected CommAgility and Texas Instruments platforms to deliver the complete core LTE RAN software proven with hardware.

LTE Reference eNodeB LTE Reference UE

CommAgility's LTE Reference products (eNodeB and UE) are pre-integrated systems, including hardware and software.

The reference design will be useful to product developers, 4G/5G researchers and LTE network engineers. The software and hardware are fully integrated and tested, saving time and reducing risk.



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