

# Stress testing for LTE eNodeB

**A total outsourced managed testing service for the eNodeB element using either customer test bed or real-world simulated LTE network**

## Overview

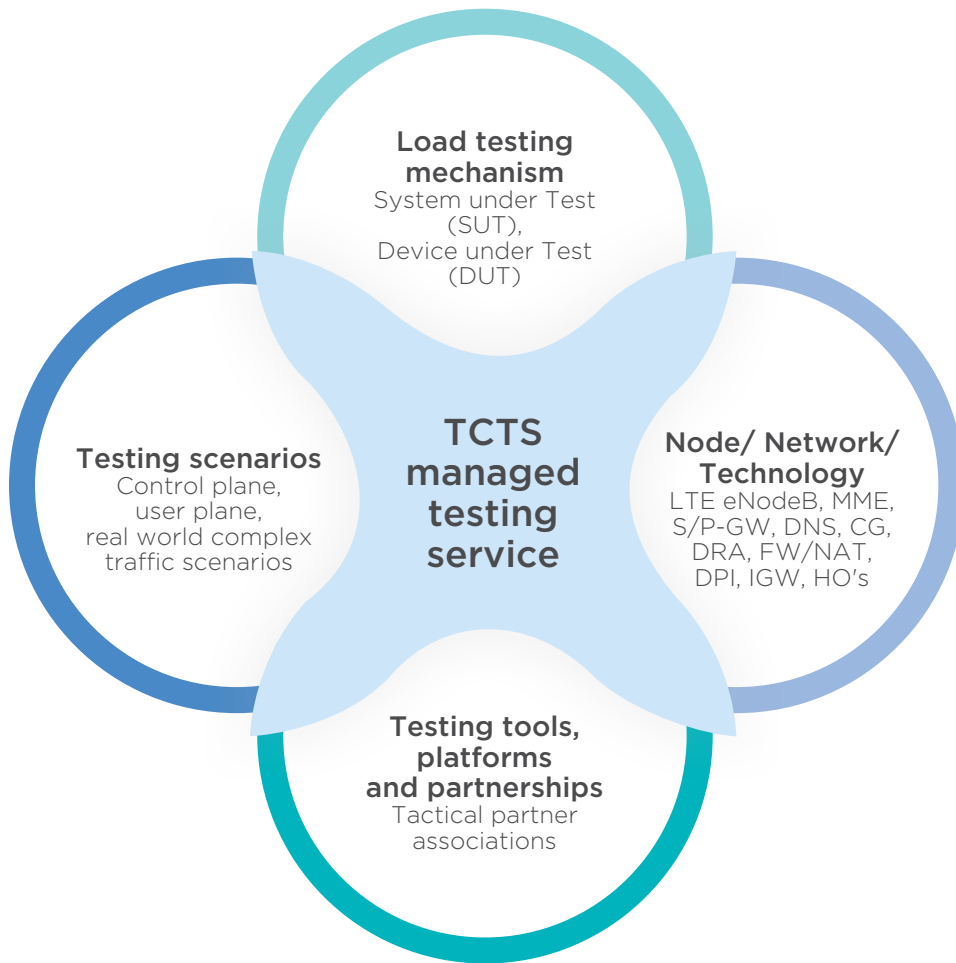
Operators worldwide are rolling out LTE networks for providing high capacity data services to their customers and to remain ahead in this competitive mobile market. With the advent of LTE, mobile broadband usage is expected to increase at a phenomenal rate and the traffic is expected to grow exponentially. Networks need to be capable of handling such loads and complex traffic patterns.

Therefore, MNOs need to proactively validate the network/ node performance/ scalability under heavy loads and varying traffic patterns/ scenarios, thus delivering seamless and a high-quality mobile experience to their customers, reducing churn and preventing revenue leakages. Besides, MNOs need to validate the impact of the services on the network/ nodes before they are deployed commercially.

TCTS provides a variety of professional and support services focussed on helping operators meet their complex testing and service assurance requirements. TCTS enables mobile service providers to test performance of their LTE networks and nodes. stress/ load simulated testing are configurable to emulate varied real-world control and data plane traffic of millions of mobile subscribers moving across LTE, GSM, UMTS and Wi-Fi networks.

**Drive efficiencies | Enhance customer experience**

## TCTS managed testing proposition



## Typical LTE eNodeB stress test cases



UE authentication



Simultaneous UE  
attach/ detach



eNodeB throughput  
with many UEs using  
multiple data applications/  
traffic load conditions



Carrier aggregation



Handovers

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## TCTS value creation and capability enablers



## Matured operations delivery solution during transfer

- Customer will gain full advantage of mature operations delivery model and robust transfer method at time of transfer
- Fully trained manpower resulting in no knowledge gaps at time of transfer
- All operational processes in place and running to set performance levels with measurement and reporting in place
- Full transfer program plan and team used to mitigate and manage all risk aspects of transfer (HR, process, tools, governance, licenses, third-party management)

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