

Radio network benchmarking

Overview

In a world where mobile subscribers have little tolerance for dropped calls and the inability to access data and applications, operators must know how well their QoS and subscribers' quality of experience (QoE) compares with the competition and changes over time.

The ability to benchmark the quality of competing wireless networks and services is increasingly important for network operators, service providers, and regulatory agencies. The main objective of the benchmark is getting a clear and independent look on network performance from the customer's point of view. The benchmark is a representative snap-shot of the end-to-end network coverage, capacity and quality.

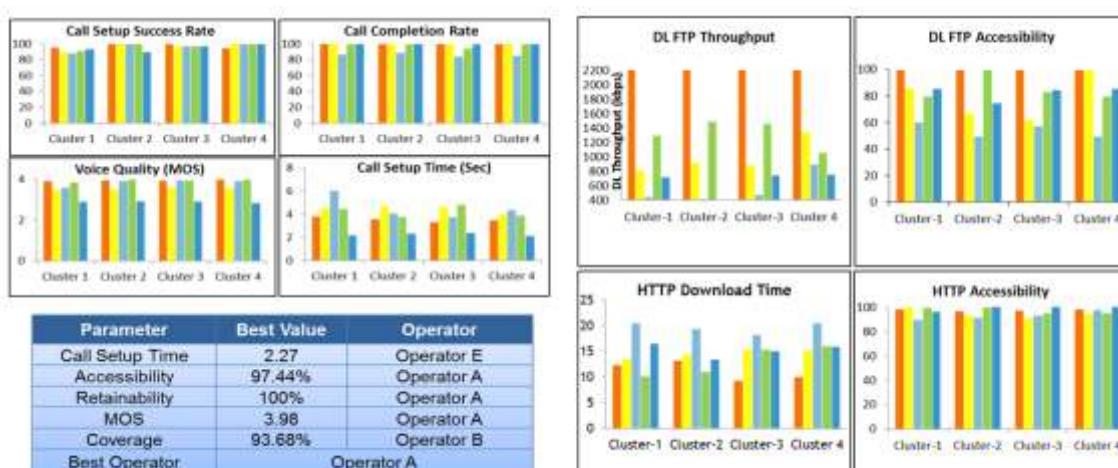
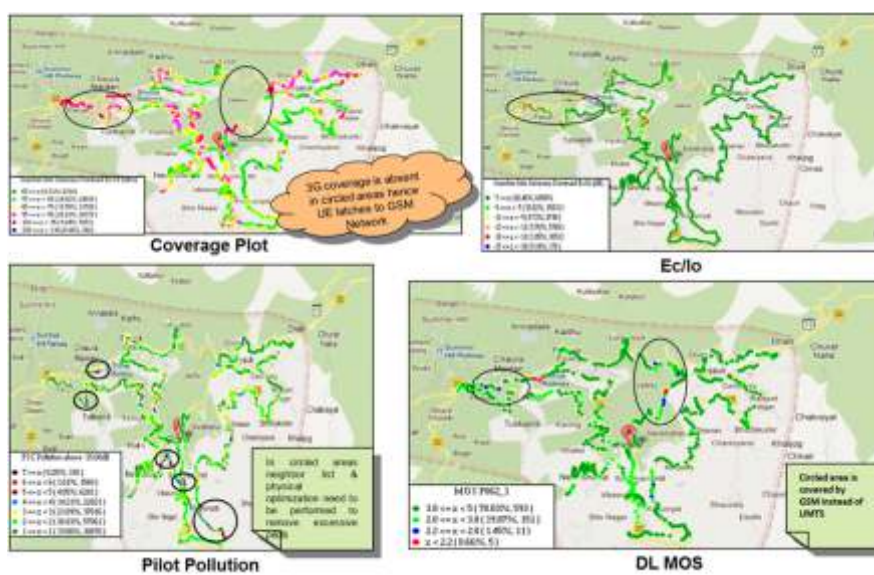
The focus of benchmarking is to elevate capability of mobile radio networks to support and carry services like voice, data and video etc. Key properties of the network here are coverage, signal quality, capacity, available technology (LTE, WCDMA, GSM, CDMA) and performance KPIs (e.g. accessibility, retainability, mobility, throughput etc.). These results can be effectively used to compare performance on a much larger scale by ranking relative network statistics country wide to assess regional performance

**Drive efficiencies | Accelerate revenues |
Enhance customer experience**

Service offering

The TCTS RF network benchmarking offerings include:

- Benchmark radio services across a large variety of network operators and technologies (LTE, WCDMA, GSM, CDMA)
- Perform on road and indoor drive data collection
- Monitor KPIs, (e.g. accessibility, retainability, mobility, throughput etc.) such as CSSR, DCR, HSR, TCH block rate, DL/ UL data throughput, MOS etc. to help engineers to improve network
- Drive data validation and recommendation for improving network performance
- Report preparation and ranking based on the drive data results



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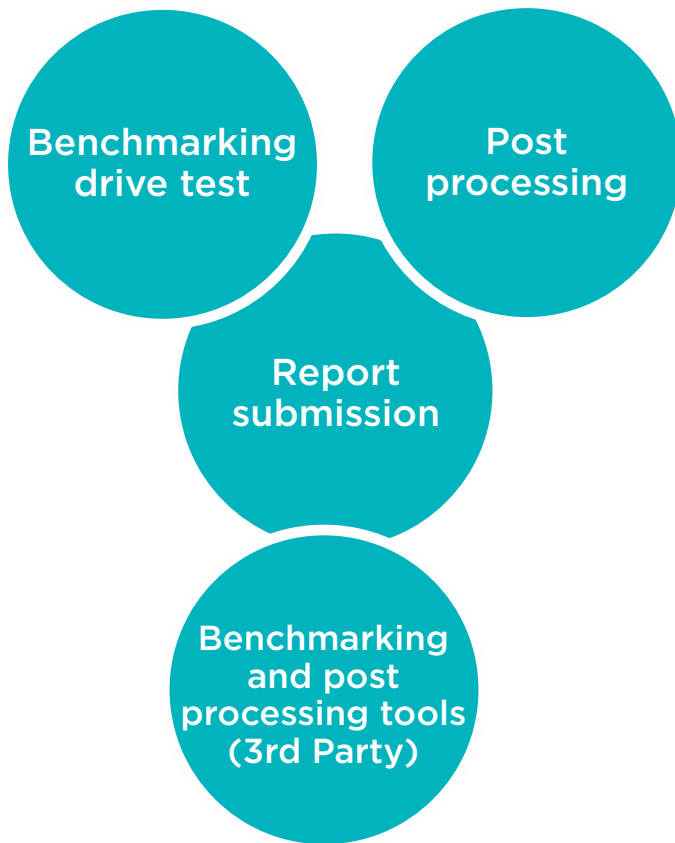
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Operation model

TCTS



Value proposition

- Our SMEs have vast experience on telecom technology platforms and have cross technology expertise making us technology specific vendor agnostic service provider
- TCTS possesses a strong team of experts with practical exposures to leading tools and test and measurement devices used in telecom space for EMF testing and measurement
- Experience of operating wireless networks with a strong base of-65,000+ BTS and 6000+ Microcells (WCDMA, GSM, CDMA, WiMAX)
- Solution approach based on industry expertise and use of sophisticated tools combined with its global presence and partner support
- Leverages the telecom expertise of its parent company TCL and other Tata group companies who work in the same sphere of operations like Tata Teleservices, India and Neotel, South Africa

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