

# Microcell

## Providing end-to-end services for Microcell design, deploy and operate

### Overview

With mobile network evolution towards 3G and 4G based services, mobile network operators signal strength and signal quality requirements have become more stringent in 3G and 4G, as the user applications are moving from a voice centric to a high speed data centric model.

With stress on requirement of seamless mobile broadband experience, especially in the indoors/ hotspots, where most of mobile traffic is generated, MNOs need to meet those expectations if they want to be ahead in the race. Microcell are deployed to address the coverage holes issues and high traffic demand at hotspots.

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





RSRP Simulation: Before Microcell



RSRP Simulation: After Microcell

## Service offering

With an end-to-end managed service design, deploy and operation of Microcell solutions, TCTS provides a comprehensive solution targeting not only customers that are looking to improve their network coverage, but also focus to meet that network KPIs that MNOs demand.



- **Nominal Microcell plan:** Preliminary design using Geodata, CW model tuning data and planning tool to meet the coverage, capacity and quality objectives
- **Site survey:** RF site survey for finalising the best feasible candidates
- **Final Microcell design:** Final RF design based of field survey and site acquisitions inputs
- Microcell deployment and provisioning based on the final RF design and using EMS/ NMS software tools to provision the RAN configuration parameters into the network (such as cell ids, assigning PCI/ PSC/ RSI, generate neighbor list and configuration scripts)
- Pre and post launch network optimisation
- Network performance mentoring and KPI assurance
- Network operations and maintenance; on field and NOC with service level adherence
- End to end project management (including local logistics)

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