



URBAN MACRO OPEN RAN

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Parallel Wireless's Urban Solution allows MNOs to expand and modernize their networks with an urban-ready, Open RAN solution that reduces TCO and deployment cost and simplifies maintenance while avoiding vendor lock-in. The Parallel Wireless Open RAN solution has been trialed and proven in rural scenarios and is scalable for urban locations to support 2G, 3G, and 4G subscribers and guarantee optimal user experience with an ALL G open network architecture that is ideal for legacy urban solution replacement that delivers OPEX savings – all while enabling operators to unleash the full potential of 5G.



WHY MNOS NEED OPEN RAN FOR URBAN

From deployment cost, high OPEX, the need to satisfy evolving end-user expectations and future-proofing against new services (5G, 6G, 7G, IoT, and more), the demands of urban networks can be challenging for many operators. There are questions of zoning and permits for new sites, Wi-Fi integration, the cost to upgrade power and backhaul infrastructure for densification and Massive MIMO as well as the cost to add capacity, costs to maintain QoS for an increasing number of end-users, handling poor user experience during high peak hours, the need for ubiquitous coverage, and more.

Furthermore, 5G is an inflection point that makes service providers re-evaluate the future of their networks, and Open RAN has become a key option to avoid vendor lock-in with legacy solutions considering the high costs of deploying and managing 5G networks. 5G becomes an opportunity to reimagine overall network strategy across ALL Gs – especially in high density urban markets – to protect investment and get the lowest network TCO, avoid vendor lock-in, and simplify architecture with best-of-breed components for hardware or software to enable interoperability.

THE SOLUTION

The benefits of the Parallel Wireless urban macro Open RAN can help MNOs mitigate these challenges with a solution that has been deployed and proven in rural environments and is now scalable for urban. Deploying cloud-native Open RAN across ALL Gs, including complex mixed technology scenarios, drives the cost down for rural and now urban deployments and allows MNOs to unleash the full potential of their networks as they migrate to 5G. Parallel Wireless can support many urban use cases, including Urban and Dense Urban, 4G Expansion and 5G Readiness, and Network Modernization/Sharing.

The Parallel Wireless solution is easy and fast to deploy, provides scalable capacity for throughput, and offers automated maintenance. The 5G-native architecture is interoperable with any 4G solution and allows seamless integration without service interruption. It is easy to deploy for coverage or capacity and facilitates faster time-to-market, scalable throughput, high speed, and ultra-low latency. In fact, Parallel Wireless's solution for network expansion lowered the cost per site by 40% when customer Inland Cellular added more 4G/LTE macrocells to their existing network – enabling them to quickly add more cells and improve service in their most heavily trafficked area.

THE BENEFITS

Parallel Wireless is the only Open RAN provider with a proven and deployed ALL G macro solution that is scalable for urban scenarios – enabling mobile operators to:



Innovate



Modernize and expand their networks



Reduce TCO



Avoid vendor lock-in



Futureproof for 5G

COST SAVINGS FOR DEPLOYMENT AND OPEX

- Easy to install, self-configuration of many cells
- Network automation for hands free maintenance

FUTURE-PROOF, OPTIMAL END-USER EXPERIENCE

- Software upgradable to any G; COTS BBU can support any vendor/any G
- Seamless mobility, QoS for ALL G, Network Slicing

SUMMARY

Connectivity is as important as ever, but high TCO, vendor lock-in, and limited flexibility with legacy suppliers make it challenging for operators to maintain, expand, and upgrade their networks – especially in urban environments. Parallel Wireless's solution that supports ALL Gs helps operators expand and modernize their network with an urban-ready, ALL G Open RAN solution that reduces TCO and deployment cost and simplifies maintenance – all while avoiding vendor lock-in and providing optimal user experience and enabling MNOs to unleash the full potential of 5G.

THE PARALLEL WIRELESS URBAN OPEN RAN SOLUTION

