

Intro to OpenRAN



The telecom industry is going through a dramatic change that can be only compared to what data centers experienced in the 2000s – all driven by Moore’s Law. This is driving the need to move from costly, proprietary solutions to COTS and open-based ones, and to create a broader vendor supply chain.

Deploying, maintaining and optimizing networks requires a lot of manual labor and results in high cost. There are traditional, legacy RAN vendors whose solutions are proprietary and siloed for each G. Historically, mobile network operators (MNOs) have been “locked

Parallel Wireless OpenRAN is a software-based solution designed to support ALL Gs (5G, 4G, 3G, 2G and Wi-Fi). It is horizontally distributed, driven by the O-RAN Alliance to

standardize interfaces and Telecom Infra Project (TIP) to deploy and establish an ecosystem of MNOs and vendors.

There are numerous legacy networks deployed around the globe, which is why Open RAN must address all Gs – including 2G and 3G – because if only 4G and 5G are addressed, MNOs then have two networks to run: legacy and new Open RAN networks. This would be costly and miss the true purpose of the Open RAN movement.

rather than the vertical silos found with legacy solutions. This makes Parallel Wireless’s software-based OpenRAN easy to manage and delivers cost-savings to MNOs using it to modernize or expand their networks. Parallel Wireless CU/DU separation is for All Gs and supports all splits. And, with our proprietary OpenRAN Controller, it enables interoperability across different hardware and cores. Parallel Wireless’s OpenRAN has been deployed in 60 global networks both with TIP and outside of TIP. Parallel Wireless’s solution helps

global mobile operators in both coverage and capacity deployments, while also paving the way to 5G. Parallel Wireless’s OpenRAN solution is deployed in more than 50 networks (including trials and commercial deployments) around the globe.

The Benefits of Open RAN and How Open RAN is Being Implemented Now

structure. Open RAN means building a real multi-vendor network with no vendor lock-in.

Everyone is talking about Open RAN, but we still have legacy networks that cannot be switched off. Thai-

– such as credit card terminals – and they elected to keep 2G and 3G running. Taiwan experienced the same thing. This is where an All G Open RAN solution, such as the one offered by Parallel Wireless, can help MNOs modernize 2G and 3G while reducing costs.