

Deploy an open RAN with Red Hat and Parallel Wireless



Deploying open RAN across multiple network generations can reduce operating costs by up to

50%²

Red Hat and Parallel Wireless offer cloud-native, software-defined solutions for delivering RAN services across 2G, 3G, 4G, and 5G networks. With these solutions, you can:

- Speed time to market for new services and features.
- Reduce network management costs.
- Prepare for future change.



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Traditional RANs cannot keep up with growing demand

Relentless mobile traffic growth, increasing numbers of Internet of Things (IoT) devices, and maturing 5G and edge technologies present new revenue opportunities for telecommunications service providers. However, it can be difficult and costly to take advantage of these opportunities using traditional radio access networks (RANs) that cannot keep pace with growing demand or scale to meet user expectations.

Virtual and cloud-native open RAN technologies can help you cost-effectively expand and modernize your network services and improve user experience. While 59% of network providers have deployed virtual RAN technologies, network penetration is still quite low.¹ Using open RAN technologies only for new 5G networks still leaves you reliant on your existing network components for older network generations. Deploying open RAN across multiple network generations can increase efficiency, reduce operating costs by 30-50%, and let you deliver innovative new services to all of your customers, not just those on 5G networks.²

Red Hat and Parallel Wireless offer cloud-native, all-generation (all-G) open RAN solutions that work across multiple network generations to help you speed time to market for new services, reduce network management costs, and prepare for future change.

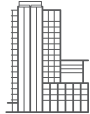
Unify your networks with Red Hat and Parallel Wireless

Red Hat and Parallel Wireless are committed to supporting customers with a seamless experience through joint engineering and collaboration. Red Hat and Parallel Wireless solutions provide a cloud-native, software-defined architecture for delivering open RAN services across 2G, 3G, 4G, and 5G networks. These flexible, scalable solutions include automated orchestration and management, DevOps and continuous integration/continuous deployment (CI/CD) capabilities, and open standards-compliant interfaces to support success in the fast-changing telecommunications industry. Each component of the solution provides key features and benefits.

- [Red Hat® OpenStack® Platform](#) is a cloud computing platform that virtualizes resources from industry-standard hardware, organizes those resources into clouds, and manages them so users can access what they need—when they need it. It provides a reliable cloud foundation for virtual machine and container deployment.
- [Red Hat OpenShift®](#) is an enterprise-ready Kubernetes container platform with full-stack automated operations to manage hybrid cloud, multicloud, and edge deployments. It is optimized to improve developer productivity and promote innovation.
- [Parallel Wireless OpenRAN network software suite](#) is a unified solution for deploying software-defined RAN across all network generations from 2G to 5G. It includes [OpenRAN controller](#), [edge core](#), [network intelligence](#), and RAN sharing capabilities. This software runs as a virtualized or containerized network function on Red Hat platforms.

¹ *A Heavy Reading white paper produced for Red Hat, "Virtualized RAN: 4G/5G Strategies, Opportunities, and Pitfalls," March 2020.*

² *Parallel Wireless. "What Happens to Deployment TCO When Mobile Operators Deploy OpenRAN Only For 5G," May 2020.*



About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

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Speed time to market for new services and features

Red Hat and Parallel Wireless solutions can help you speed RAN service development, delivery, and maintenance. Automated operations let you upgrade, patch, and maintain services faster. DevOps and CI/CD capabilities help you build, test, integrate, and deploy new services and features with greater speed and frequency. Consistency across all network generations allows you to deliver innovative, high-speed, 5G-like services to more customers, regardless of which network they connect to.

Reduce network management costs

These solutions also simplify RAN management across network generations to increase efficiency and reduce costs. Unified management streamlines operations and increases consistency. Remote software upgrades reduce the time and effort to maintain RAN sites. A software-defined architecture allows you to automate tasks so staff can focus on high-value projects. Elastic scalability lets you expand and contract resources to meet changes in demand. The horizontal cloud foundation lets you pool resources across sites to save hardware, power, and facility rental costs.

Prepare for future change

Finally, Red Hat and Parallel Wireless solutions provide the flexibility needed to adapt to future change and uncertainty. Consistency across network generations allows you to deliver new innovative services on existing infrastructure. Compliance with OpenRAN standards and open interfaces lets you connect third-party products and technologies, as well as internal applications, simply and reliably. Open source technologies allow you to take advantage of emerging technologies and features. A large ecosystem of certified partner products and technologies lets you customize your deployment knowing that all components will work together reliably.

Learn more at redhat.com/telco and parallelwireless.com.

About Parallel Wireless

Parallel Wireless is the first U.S.-based company challenging the world's legacy vendors with the industry's first unified all-G (5G/4G/3G/2G) software-enabled Open RAN macro solution. Its cloud-native network software reimagines network economics for global mobile operators in both coverage and capacity deployments, while also paving the way to 5G. The company is engaged with more than 50 leading operators worldwide. Parallel Wireless's innovation and excellence in multitechnology, open virtualized RAN solutions have been recognized with more than 75 industry awards.