Parallel Wireless Network Software Suite

Network Software Suite

Parallel Wireless Data center native software brings automation, optimization, agility and fast deployment to the network. The unified software-based approach not only enables the new technologies such as 5G, 4G but also legacy 2G, 3G networks.

Parallel Wireless' network software suite allows operators to get the most out of their network assets and harness the cloud to modernize and future-proof their networks while making them interoperable, automated, easy to deploy and maintain to support network growth and save cost.

Features and Capabilities

The unified solution for All G delivers high capacity, high availability and high performance. Key features include:

OpenRAN Controller:

ORAN/XRAN compliant OpenRAN Controller provides both near real-time and non real-time controller functionalities. Built on 5G-Native architecture, the controller provides ease of deployment and faster time to market. It is **standards based and Interoperable** with different hardware and software vendors for RAN/CU.

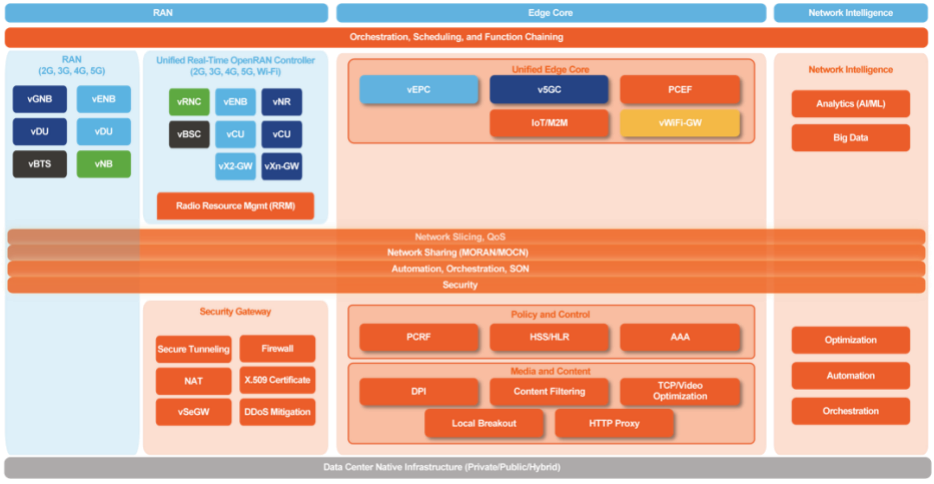


Figure 1: Unified OpenRAN and Network Software Suite

Edge Core: a virtualized distributed core solution consisting of MME, SGW and PGW, Wi-Fi gateway as well as AMF, SMF, UPF and N3IWF, or any combination of these. ParallelWireless Edgecore is fully distributed cloud native solution. It enables deployment flexibility and allows operators to provide seamless user experience across multiple technologies.

Network Intelligence: Network Intelligence software is an overlay framework that provides intelligence across the entire software suite by enabling All G SON network orchestration and analytics. It allows network optimization and improved QoE for end users.

RAN Sharing: Network Sharing Enabler: Infrastructure sharing will be key for 5G networks. The Parallel Wireless OpenRAN software suite enables MOCN/MORAN by having the ability to view the traffic and route to the proper core. This then allows RAN sharing to happen without complication to any of the home networks. The OpenRAN controller simply requires connections to each core and handles the heavy lifting of routing the traffic properly.

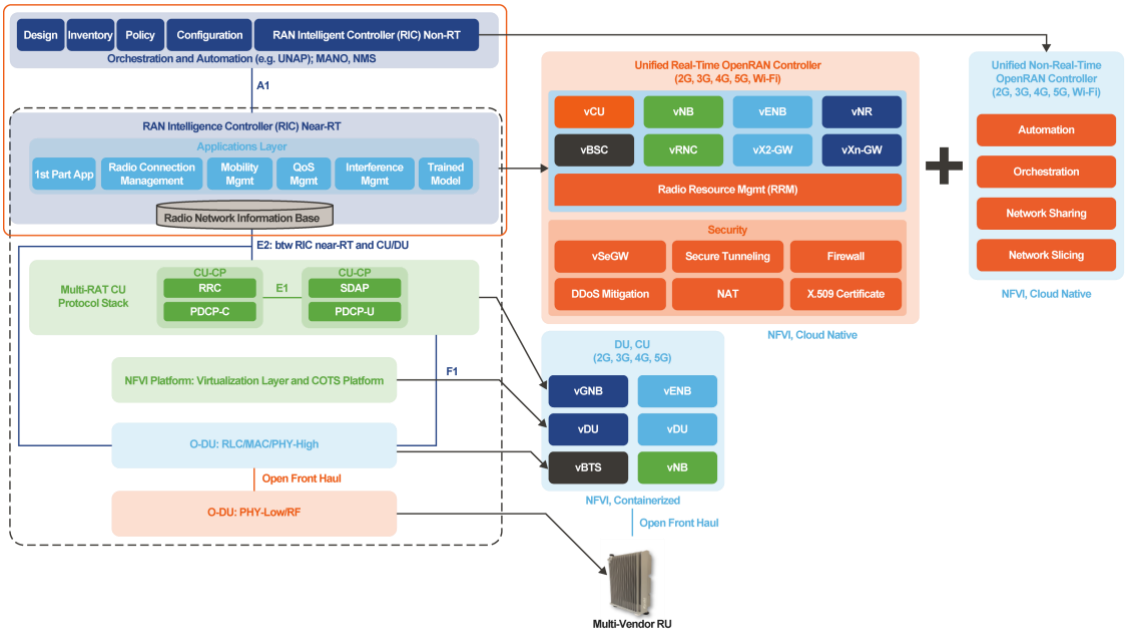


Figure 2: Complete OpenRAN Solution Suite

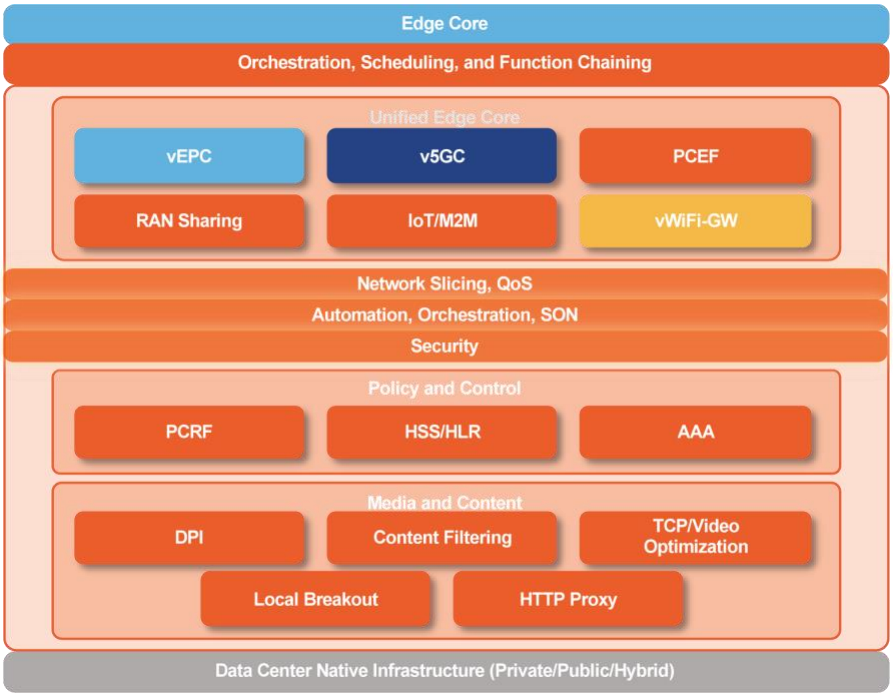


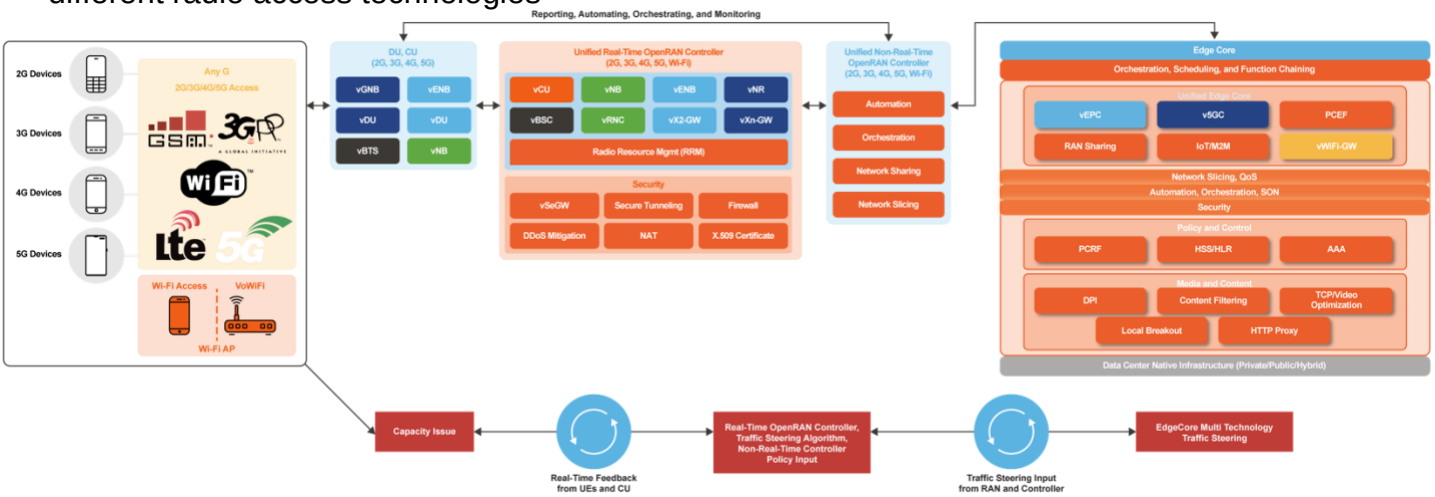
Figure 2: Network Software Suite enabling Unified Distributed EdgeCore

Use Cases Supported:

- 5G,4G,3G,2G large scale deployments for outdoor and indoor
- Network Sharing
- Enterprise
- Private Network
- Public Safety

Benefits:

- New Revenue Opportunities by enabling advanced services via analytics
- OPEX reduction by network automation
- Streamlined Network Management
- Service Uniformity as subscribers roam across different radio access technologies
- Distributed edge intelligence for 2G,3G,4G,5G and WiFi
- On Demand Local breakout for deployment flexibility and traffic steering



Deployment Options:

Parallel Wireless Network Software is suitable for large scale to small deployments. The Cloud native software suite can be hosted on private, public or hybrid cloud.