

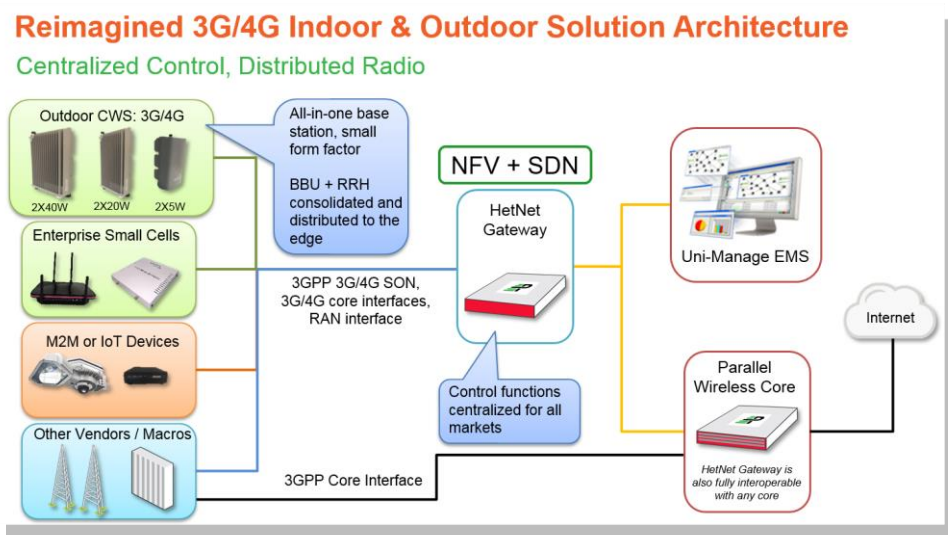
Company Overview

About Us

Parallel Wireless is on a mission to connect the 4 billion unconnected people by reimagining the architecture of cellular infrastructure. The reimagined architecture enables operators to deploy any G cellular networks as easily and as cost-effectively as enterprise Wi-Fi whether for rural, enterprise, public safety, M2M, Smart Cities, or dense urban. The company is in production on six continents and engaged with many leading operators worldwide. Parallel Wireless' innovation and excellence has been recognized with 31 industry awards.

www.parallelwireless.com.

Network Solution Overview



Products

- **HetNet Gateway (HNG)** is the industry's first carrier-grade, NFV/SDN-based, 3GPP compliant RAN orchestrator that can orchestrate any technology (3G, 4G, Wi-Fi) and any vendor RAN. HNG logically sits between the RAN and core and virtualizes RAN on any COTS hardware while making RAN self-configuring, self-optimizing, and self-healing. Currently released HetNet Gateway supports 3G gateway, 4G gateway, Wi-Fi gateway, multi-technology SON, MEC, elastic scheduling capabilities. Moreover, these functions interwork with one another, instead of operating in individual silos, to deliver agility and flexibility across the network. HNG makes any RAN easy to deploy, scale, & maintain while delivering QoS across any licensed & unlicensed technologies, in rural & urban locations, enterprise, public safety, even on the cell edge. This solution uses standard backhaul and orchestrates a resilient mesh across the various backhaul elements. As a result, higher device density can be delivered and networks can be built or expanded at much lower cost, making cellular deployments for any market as easy and as cost-effective as enterprise Wi-Fi.

- **CONVERGED WIRELESS SYSTEM (CWS)** is a software-defined, multi-mode, multi-band base station. It leverages the latest silicon to support 3G and 4G and integrates flexible backhaul (including wireless SDN mesh) all in the same form factor to deliver instant, reliable, and cost-effective coverage anywhere. The nodes are self-configured and self-managed via HetNet Gateway to enable easy and cost-effective deployments. Self-orchestration enabled by HNG provides hands-free maintenance of CWS' with SON-based interference mitigation for access and backhaul, SON-controlled dynamic RF power adjustment, and software-defined radio (SDR) capabilities that future-proof CWS' for additional bands or band reconfigurations. CWS provides resilient coverage indoors and out with flexible deployment options and lowers overall TCO.
- **ENTERPRISE SMALL CELLS/CELLULAR ACCESS POINT (CAP)** which integrates cellular (single mode or multi-mode/multi-carrier) and Wi-Fi access in the same form factor and provides operators with the flexibility to choose ANY ODM of small cells to buy off the shelf as they would for Wi-Fi APs. Coupled with the multiple VNFs provided by HNG, this eliminates the need to make further investments in additional components such as small cell and security gateways, SON servers, etc. Furthermore, HNG makes the white boxes smart via intelligent orchestration and traffic mitigation / prioritization. The install won't require RF planning or complex system integration – IT team member will be able to install as HNG will intelligently orchestrate, adjust power and will mitigate any interference. The end result is an enterprise network that can be deployed and maintained for pennies per square foot
- **UNI-MANAGE** is a software based Element Management System (EMS) for the CWS and HNG components and provides a web based user interface (UI) to configure, manage, and monitor the network elements.
- **EVOLVED PACKET CORE (EPC)** is a full LTE core solution consisting of MME, Serving GW, PDN GW, and HSS components, or any combination of these, deployed as virtualized functions on any COTS hardware, providing a single box fully functional solution. It is a low-footprint low-cost LTE core that offers not only one of the best performance-to-price ratios in the industry, but also ease of deployment by integrating with Parallel Wireless HetNet Gateway (HNG). The functionality on HetNet Gateway, a fully 3GPP-compliant NFV and SDN-enabled platform, includes multi-technology SON and multi-technology vRAN. It provides architectural simplification of multiple core functions like 3G/4G/Wi-Fi GW VNF's. By integrating HNG as a part of the EPC architecture, the overall architecture is also simplified.

Offices

Parallel Wireless' worldwide headquarters are located in Nashua New Hampshire, with Sales Offices in Asia and EMEA, and Research Centers in India.



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