

Top 10 Wireless Solution Providers - 2019

Fast, secure Wi-Fi is what every business wants and needs today. With continual enhancements to wireless networking standards and technologies, speed and security concerns related to wireless solutions have been abated. Today, wireless technology plays a key role in communications, and new forms of it will gain importance in emerging technologies such as drones, robots, and self-driving vehicles in the upcoming future.

Internet of things (IoT) became a reality, with a plethora of devices connected to Wi-Fi networks, from laptops, tablets, and smartphones to printers and home assistants. The latest phenomenon in IoT is low power wide area networks, a family of technologies purpose-built to support large-scale IoT networks sprawling over vast industrial and commercial campuses.

As 5G cellular systems are starting to be deployed, cellular next-gen 5G with high-speed mobility support and ultra-low latency is positioned to be the future of autonomous vehicles and

augmented reality. Cellular network providers are exploring 5G to enable real-time video surveillance for public safety, mobile delivery of medical data sets for connected health, and several time-sensitive industrial automation applications in the future.

As technology evolves at breakneck speed, organizations find it challenging to choose the right wireless solution providers for their specific requirements. A distinguished panel comprising CEOs, CIOs, VCs, analysts, and the Enterprise Networking Magazine's editorial board has reviewed the top solution providers in the wireless domain. In our selection process, we looked at each of the vendor's capabilities to fulfill the need for cost-effective and flexible solutions in wireless networking and communication technologies. The shortlisted companies are at the forefront of tackling the challenges associated with wireless technologies by catering to the needs of the enterprise buyers and assisting them with state-of-the-art wireless networking solutions. We present to you Enterprise Networking Magazine's "Top 10 Wireless Solution Providers - 2019."



Company:
Rajant Corporation

Description:
Provides the most adaptable, scalable, and readily deployed private mobile broadband networks in the market today

Key Person:
Robert J. Schena
Chairman, Co-Founder & CEO

Website:
rajant.com

Rajant Corporation

Delivering True Mobility in Wireless Mesh Networks

Wireless mesh networks have the potential to turn the dream of a seamlessly connected world into reality. However, there are significant shortcomings in achieving this vision with traditional wireless mesh technology, particularly when it comes to ensuring mobility in an industrial environment. When the wireless nodes are in motion, the mesh spends more time updating the network routes than delivering data. As a result, the nodes are not able to provide an uninterrupted network. In response to these stemming problems and the growing need for an efficient wireless network infrastructure that supports today's IIoT mobility demands, Rajant Corporation came forth with its patented Kinetic Mesh® technology, which allows networks to be fully mobile and operate reliably even in the most demanding environments.

The Kinetic Mesh network consists of Rajant BreadCrumb® wireless network nodes and Rajant InstaMesh® networking technology. The unique mesh network utilizes any-node to any-node capabilities to instantaneously route data via the best available traffic path and frequency. As a result, all devices connected to the network can maintain continuous connectivity. "And unlike other wireless mesh offerings in the market, Rajant Kinetic Mesh networks provide mobile wireless broadband connectivity that is simple, instantaneous, and fail-proof in any application," states Robert J. Schena, chairman, co-founder, and CEO of Rajant Corporation.

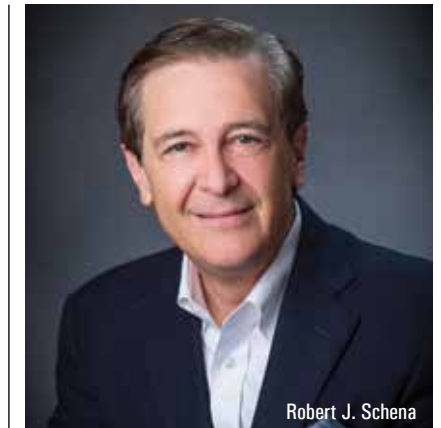
When it comes to mobility, Rajant BreadCrumbs can communicate with any Wi-Fi or Ethernet-connected device to deliver low-latency, high-throughput data, voice, and video applications across

its meshed network. Together with that, Rajant's peer-to-peer networking protocol runs on every BreadCrumb node and ensures that the connected devices react immediately to any change in the network topology and external environmental conditions.

What makes Rajant's Kinetic Mesh network invincible is the fact that it cannot be taken down by a single point of failure, which is often the case in most traditional networks. Boasting a decentralized system that does not require a central controller, every BreadCrumb node makes its own local decisions in real-time, independent of any other mesh nodes on a packet-by-packet basis. If any node is compromised or obstructed, InstaMesh dynamically redirects traffic between the next best available network points. Additionally, Rajant can aid its clients to add, remove, or relocate the wireless network nodes to accommodate data requirements or changes in the physical landscape. In all these scenarios, InstaMesh keeps data moving and automatically adapts to the changes without dropping packets and incurring a network outage.

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For almost two decades, Rajant has been providing these wireless communication competencies to a variety of military



Robert J. Schena

applications and industrial enterprises such as gas and oil companies, utilities, and transportation agencies. Illustrating the effectiveness of its technological offering for public safety, Schena mentions how Rajant helped the Thames Valley Police department establish and maintain a wireless network that could deliver a massive amount of video data with high throughput and low latency for the two recent royal weddings. The police force required a solution that was easy to set up and reliable for increased security and surveillance in Windsor, England. Rajant was the only option hitting both marks.

With a proven track record of success, Rajant intends to continue with its global expansion plans over the coming years. Schena states that the company is looking to open regional headquarters in Asia and South America in the near future to meet the evolving requirements of its customers. With that, constant upgrades to the core operating system of the Kinetic Mesh network based on client use cases is another driving force of the company toward addressing the demands for network mobility, autonomy, speed, and ruggedness. **en**