



The Future of Broadband Wireless Today.

Azalea Networks...

*A Wireless Mesh Network
Solutions Provider Delivering
Network Intelligence through
Wireless Routing Technology
that Sets New Standards in
Price and Performance*



www.azaleanet.com



The first wireless broadband network infrastructure with full network layer intelligence

Azalea Networks delivers network intelligence to its broadband wireless infrastructure through an innovative wireless routing technology that sets new standards in price and performance. It's the perfect solution for service providers, government agencies and industrial enterprises that need superior performance, scalable capacity, seamless mobility and more. It's all made possible by intelligent network routing technology to deliver high quality wireless voice, video and data services.

Adaptive Wireless Routing™

Azalea's Adaptive Wireless Routing (AWR) technology is the industry's first dynamic, distributed routing technology purpose-built for wireless networks. Tests prove Azalea is able to deliver significantly higher throughput performance when compared to other multi-radio wireless solutions.

Active Video Transport™ (AVT)

Azalea's innovative Active Video Transport technology is designed to remove impairments to video quality including jitter and packet loss, and dramatically improve the performance of video applications across a broadband wireless network infrastructure.

Motrix™ High-Speed Roaming

Motrix—a contraction for the mobile matrix characterizing the ability to roam seamlessly—builds on AWR's intelligent network routing capabilities to provide cross-IP subnet roaming among all wireless access points. No other wireless networking solution available today makes roaming as fast, transparent and effortless.

The Azalea Advantage

The Azalea Operating System outperforms other wireless networking solutions:

- ▶ *Dynamic, distributed network routing designed specifically for Azalea's multi-radio wireless products to deliver scalable, sustained performance over multiple hops*
- ▶ *The fast and efficient distance-vector routing protocol incurs a per-hop latency of less than two milliseconds to better support real-time applications, such as VoIP*
- ▶ *A variety of topologies are used to fit different application requirements, including full/partial mesh, point-to-multipoint and hierarchical hub-and-spoke*
- ▶ *Automatic load-balancing throughout the wireless network infrastructure ensures high performance even during periods of intermittent congestion*
- ▶ *Seamless roaming within the wireless network infrastructure provides "session persistence" for any IP-based application, including Voice over IP over Wi-Fi*
- ▶ *Support for DiffServ, 802.11e and VLANs gives network operators full control over service quality for converged wireless networks carrying voice, video and data traffic*
- ▶ *Enhancements at network ingress and egress nodes yield industry-leading "high definition" video quality for video surveillance and similar applications*
- ▶ *Rigorous authentication, strong encryption and other security provisions ensure network integrity and user privacy end-to-end*
- ▶ *The self-forming, self-healing and self-managing nature of the wireless network infrastructure is supplemented with a powerful centralized management system to help minimize operational expenditures*

The Azalea Difference

As the industry's first wireless broadband network infrastructure solution with full network layer intelligence, Azalea delivers an advanced comprehensive solution to its customers. This means seamless high-speed roaming, "high definition" video, load-balancing over multi-hop mesh topologies, superior service quality and more.

Unlike other wireless mesh networking solutions, which employ basic bridging and switching and that inherently limit scalability, capacity and manageability, Azalea's Adaptive Wireless Routing technology brings much-needed network-wide intelligence to the wireless broadband infrastructure.

By providing the means to overcome these previous limitations, Azalea's network intelligence affords dramatic improvements in price, performance, capacity, reliability and mobility.

Azalea's Broadband Wireless Solution The Azalea Networks Product Line



MSR4000

Four-radio outdoor wireless mesh router used as gateway nodes or core routing and access nodes



MSR2000

Dual-radio outdoor wireless mesh router used as nodes at the edge of the network



NMS1000

Intelligent network management system for ease in managing the entire network



MSR1000

Two-radio indoor wireless mesh router used to connect indoor and outdoor wireless networks



MST200

A single-radio multi-service terminal used to connect high resolution cameras and other devices to the wireless mesh network for both high-speed mobile and stationary applications

Application Expertise

Video Surveillance – The Azalea broadband wireless network infrastructure provides wireless video surveillance like you've never seen before. The Active Video Transport™ system delivers the best available video quality for ordinary video surveillance cameras, monitors and recording systems. What's more, Azalea provides support for long-range directional links, seamless roaming for mobile cameras and monitors, high security, prioritized QoS to accommodate other applications and the superior scalability and load-balancing you can expect from Adaptive Wireless Routing.

Scalable Wi-Fi HotZones and Wireless Backhaul – Avoid the need for costly trenching or lease-line access with Azalea's Wi-Fi for HotZones and large-scale wireless networks. The Azalea broadband wireless network infrastructure provides advantages over most mesh-only solutions, including multi-radio backhaul with virtually no multi-hop degradation in throughput, a low two millisecond per-hop latency, support for long-range directional links, seamless and high-speed cross-IP subnet roaming and unmatched video quality.

Mobility – No other wireless networking solution makes roaming as transparent and effortless. Azalea's Motrix™ roaming solution builds on our Layer-3 routing capabilities to provide cross-IP subnet roaming among access points. The "session persistence" provided by completing handoffs in less than 50 milliseconds enables Motrix to support high-speed roaming from vehicles. This is ideal for satisfying the needs of public safety and transportation agencies, as well as the most demanding of applications, including VoIP and real-time video surveillance.

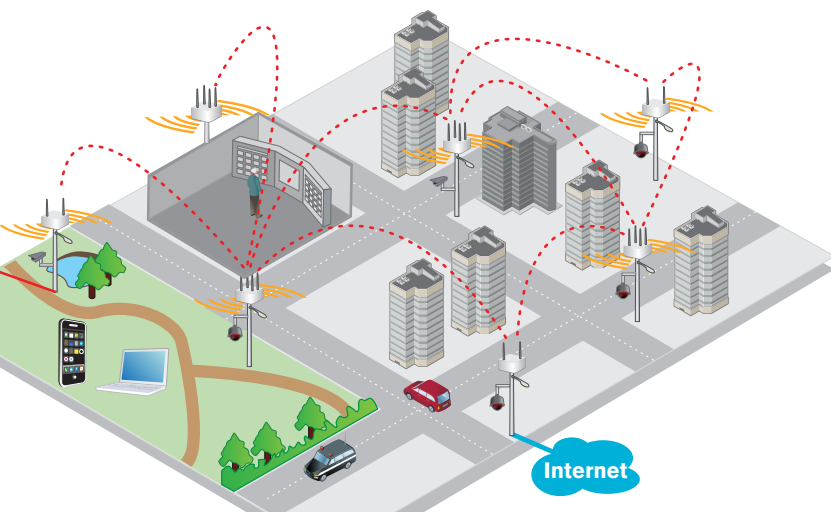


Carrier-grade Broadband Wireless –

In addition to mesh, Azalea's Adaptive Wireless Routing protocol supports multiple point-to-point and point-to-multipoint mesh topologies. This makes the Azalea wireless network infrastructure suitable as a point-to-point or point-to-multipoint broadband wireless access system for a service provider's residential and business subscribers. The same features that make Azalea's solution an excellent choice for scalable Wi-Fi mesh deployments also make it carrier-grade for service providers as an all-wireless or hybrid wired/wireless network for fixed broadband wireless access.

"Industrial Strength" Wireless LANs –

Often designated as an "outdoor" solution, Azalea's rugged nodes are equally suitable and quite affordable for deployment in unconditioned spaces. The ability to integrate broadband access and high-performance backhaul eliminates the need for, and cost of, running wires in facilities that were not designed for networking.



Markets Served

The Azalea broadband wireless network infrastructure is suitable for virtually any enterprise or service provider deployment, but its advantages are particularly compelling in these markets:



Public safety applications benefit from intelligent network routing technology that affords high-speed mobility and high-quality video surveillance capabilities far superior to all other wireless solutions. This technology is rooted in the seamless, high-speed roaming of Azalea's *Motrix*™ technology and the "high definition" video surveillance from Active Video Transport.



Construction sites increasingly depend on mobile access during the day and video surveillance at night, making these applications an ideal fit for Azalea's wireless mesh with seamless roaming and high-quality video.



Municipal buildouts, with the advantages of Adaptive Wireless Routing, can extend network intelligence beyond what is currently possible without sacrificing quality or control, especially in areas that have limited or cost-prohibitive wired backhaul.



Campuses & business parks, which require access both outdoors and indoors, can count on Azalea's flexible wireless infrastructure for superior mobility and wired/wireless internetworking capabilities.



Oil & gas exploration, production and distribution businesses gain greater control over their operations with the ability to support all mobility, video surveillance, Automatic-Meter-Reading and real-time Supervisory Control and Data Acquisition (SCADA) needs with a single, rugged solution based on full network layer intelligence.



Large-scale manufacturing is a perfect application for Azalea's all-wireless outdoor/indoor network. Azalea's cost-effective, intelligent network routing technology enhances scalability and flexibility, and affords total control over network traffic.



Mining & quarry applications will benefit from Azalea's industrial-strength solution that combines "ruggedization" with intelligent network routing technology to deliver real-time performance, simplicity of deployment and reliability of operation.



The logistics industry gains greater control over operations with Azalea's rugged, cost-effective, all-in-one solution capable of supporting every need from the warehouse to the shipping yard or port by extending network access anywhere.



Internet Service Providers can gain greater visibility into the network and provide incremental revenue services from Azalea's intelligent wireless mesh infrastructure.



Transportation agencies must cover large geographies and support demanding real-time applications, which makes Azalea's intelligent high-speed roaming, "high definition" video and long-range throughput, the perfect solution.

➤ Azalea Networks, headquartered in Silicon Valley, California, is a leading wireless routing technology provider delivering the highest performance and industry-leading scalability and support for wireless mesh networks.



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