

**BelAir**   
N E T W O R K S



**MOBILE** *Mobile Networking Without Limits*  
NETWORKING

## Mobile Networking Without Limits

**T**elecommunications networking has gone through an amazing evolution over the past 15 years. Driven by the ever-increasing need to move information quickly and efficiently, the wired network has developed into an amalgam of copper and fiber wired pathways that effectively transport data.



But today's driving force is freedom. Enterprises and service providers are searching for ways to extend the reach of existing infrastructures and improve productivity by providing untethered access to wired networks—at the office and from anywhere around the world. As a result, the new networking focus is on Wireless Local Area Networks (WLANs) and the freedom of access they promise.

*BelAir Networks enables the creation of profitable public and cost-effective private cellular LAN networks*

But current wireless networking options are complicated and costly. Multiple access points, endless feet of cable to and from switches and routers, security issues and maintenance requirements create costly deployment nightmares that complicate the road to wireless freedom.


BelAir Networks is changing all that.

### Go Beyond Basic Wi-Fi

BelAir Networks provides advanced, multi-service mobile networking solutions that go beyond basic Wi-Fi to enable the creation of profitable public and cost-effective private cellular LAN networks.

BelAir Networks mobile networking solutions combine the best of WLAN and cellular technologies. They are designed to overcome the limitations associated with traditional WLANs and deliver ubiquitous, high capacity data, video and voice services.

Most importantly, BelAir Networks solutions offer the lowest-cost network deployment on the market.



*BelAir Networks solutions are built on a multiple point-to-point mesh that integrates access and backhaul*

## Simplify WLAN Infrastructures

BelAir Networks solutions are built on a patented, multiple point-to-point mesh architecture that, for the first time, integrates wireless access and backhaul. This architecture simplifies WLAN infrastructures and eliminates crippling T1 and DSL backhaul costs, which have so far stifled the deployment of economical, medium- and large-scale Wi-Fi networks.

A BelAir Networks cellular LAN is created with outdoor, cellular LAN platforms, which beam signals into buildings from the outside. Multiple backhaul radios in each platform are configured point-to-point with directional antennas. Each platform can connect to multiple others and the combined connections form a cellular LAN.

There are no extra switches, routers or cables required to connect multiple platforms. The fully meshed backbone provides operator-class network-level redundancy to ensure service availability without operator intervention.

By integrating the access radio and the interconnection network between access points into a single, compact, outdoor package, the BelAir Networks cellular LAN:

- eliminates the need for cables, extra switches and routers to interconnect wireless nodes
- requires five to ten times fewer access points compared to indoor solutions
- eliminates disruptive, in-building network deployment
- reduces WLAN capital expenditures by up to 70%
- reduces WLAN operating expenditures by up to 90%
- eliminates T1, DSL and other backhaul costs
- provides five to ten times more capacity and five times more coverage compared to traditional wireless mesh architectures

**T**he BelAir Networks cellular LAN architecture is enabled by BelAir Networks completely integrated outdoor cellular LAN platforms, which provide a network-in-a-box mobile networking solution.



*A BelAir Networks solution can reduce WLAN capital expenditures by up to 70% and operating expenditures by up to 90%.*

## Change The Rules of Mobile Networking

**B**elAir Networks solutions change the rules of mobile networking. They enable the deployment of profitable public and cost-effective private WLAN networks by service providers and enterprises for:

- **Hot zones** such as business districts, office parks, airports, hotels, conference centers, recreation areas, and shopping malls
- **Hot spots**, such as coffee shops, book stores, office buildings
- **Campuses**
- **Corporate offices, manufacturing centers, universities, hospitals, research parks, municipal centers**
- **Apartment buildings**
- **Complex shaped buildings**
- **Buildings where it is difficult to add cables**

BelAir Networks solutions go beyond basic Wi-Fi to provide low-cost, mobile networking without limits for service providers, enterprises, and users.

And that's what wireless freedom is really all about.



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