

ClusterMesh



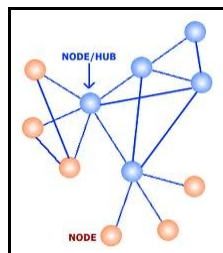
**Computer Experts Announces the
ClusterMesh Wireless Networking Solution
for large offices, homes and schools**

Affordable – Reliable – Manageable

Wireless access to the Internet and internal networks has become more important than ever before. Advances in technology have solved the speed, reliability and security issues that once made wireless access a poor choice for businesses. Wireless access points (WAPs) and wireless enabled routers have become cheaper and simpler to deploy, and are now a 'standard' solution. Unfortunately, serious shortcomings remain with these low-end solutions, especially when a company needs to deploy wireless access to larger spaces, desires centralized authentication/single sign-on for their users, or faces significant cabling costs to connect the WAPs to their existing network.

In the past, the only option was to buy high-priced, proprietary solutions. These products, and the consulting services which were required to install, configure and maintain them, could multiply the cost of a basic system by as much as 10 times. We've seen proposals for \$50,000 plus for a wireless system at a small charter school. This price would have scuttled the entire project. So, we went looking for alternatives.

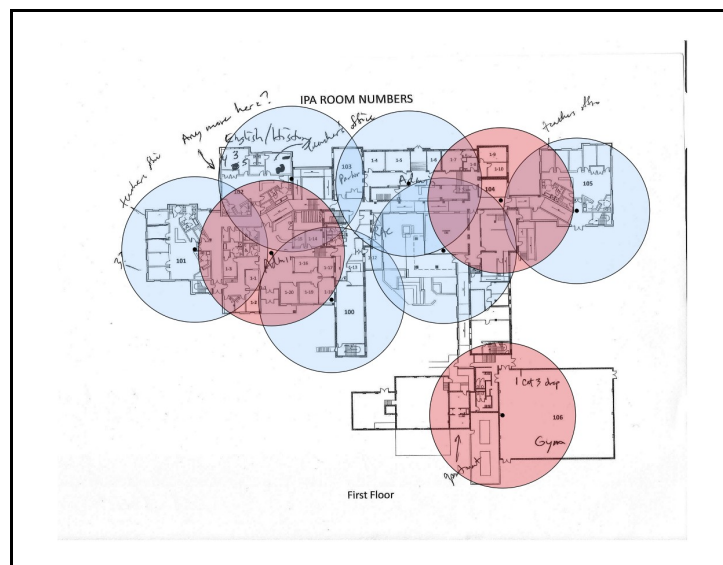
There is no simple solution, but there is a better solution than spending \$50,000 or distributing a dozen low cost WAPs that operate independently of each other. Combining our background in **Open Source technology** with an ability to solve difficult programming and integration challenges, we have developed **ClusterMesh**, a breakthrough in economy, reliability and manageability for the customer that needs a more powerful wireless solution at a lower cost.



The **ClusterMesh** product utilizes custom engineered low-cost 'Nodes' that can be **installed like cell towers** around a building. Each Node can 'talk' with each other wirelessly. In a cluster of a dozen nodes, only a few 'Hubs' actually need to be hard-wired to the local network. Nodes and Hubs communicate with each other and learn the best 'path' back to the Internet or server. If service to a node fails the network re-learns a new path automatically. If a node fails, it can be replaced in minutes without any configuration.

This approach solves several problems:

1. The cluster of nodes appears to users to be a single wireless access point: one IP address is distributed to any connected device and maintained across the network for seamless broadband connectivity; a single SSID is broadcast to eliminate confusion.
2. Multiple nodes can serve the same space without a 'WAP Identity Crisis'. So, Internet connectivity can be redundant without confusing wireless devices.
3. Intelligent 'node-hopping' means that **only a fraction of nodes need to be physically wired**. All others need power only. Wired nodes can be powered right through the network. This can result in significant savings.
4. **Authentication can be managed at the server**. No longer does each device need to be programmed with awkward numeric keys. A single 'sign on' is now possible. This also solves the problem of credential revocation. When a user account is disabled at the server, their wireless access is also disabled.
5. The ClusterMesh system supports remote monitoring, updates, maintenance and management. So, a reliable wireless network can be achieved without additional on-staff training and expense. We offer pro-active maintenance to make wireless reliability simple.
6. All data passed over the wireless network is encrypted, including logins and passwords
7. ClusterMesh supports **simultaneous public/private connections** so your guests can access the Internet while being restricted from your intranet resources.



Based on our experience, Computer Experts can integrate ClusterMesh into existing Windows or Linux network environments for about **half the cost of traditional solutions.**

The economy of our system makes it possible to consider wireless access in areas that had been considered too costly to wire or serve wirelessly – **until now.**

For a proposal, demo or references contact:

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Solving computer problems for over 25 years!

