



Design Services

Efficient Wireless Network Design

For growing numbers of companies, wireless networks are becoming business-critical infrastructure. However, many find wireless to be frustrating and expensive. This is not the fault of the technology, it's because network designers lack the tools they need to adequately measure wireless signal strength. They will overbuild access points to 'make sure,' or use crude measurements or rules of thumb to create the design. This leads to those annoying 'dead spots' we've all experienced—which some network providers excuse as an unavoidable aspect of the technology. Because of these problems, companies run wires to every cube and office at considerable expense, when their wireless system should be all that is required.

With TSC Wireless, you can make your wireless network your only network for clients. No more expensive wiring and rewiring when reorganizing or moving to a new space. With the right wireless network design, you can have an efficient, seamless network everywhere without over-building access points, and without excessive, potentially dangerous signal leakage into surrounding areas. TSC Wireless combines unique network design tools with industry-leading security expertise to bring you unsurpassed cost-efficiency, reliability and security.

Less Expensive to Build

For many businesses, wireless is already a way of life, but seems to bring almost as many problems as it solves. Holes in coverage are common, so users lose connections and sessions for no apparent reason. Your wireless Point-of-Sale devices don't work over in the garden tools department, and your laptop can never get a signal in that corner conference room. With current network design techniques, signal coverage is often inadequate.

TSC Wireless has a better way. With their proprietary tools and methods, they are able to provide an efficient network design with full coverage, without overbuilding

and we get it right the first time. This saves you money, both on your initial investment and on maintenance, while also providing better reliability. Because a TSC designed wireless network works right away after installation rather than requiring endless reengineering, employees are productive directly after a move. You need run only a fraction of the physical wiring needed for a traditional wired network, yielding huge savings in cost and productivity. TSC Wireless can save you up to 85% of your network installation costs (see Figure 1). Wireless LANs are also 'green' since they use less copper and other resources.

Figure 1: Cost to Connect 18 user devices to the Network

	'Classic' Network	Wireless Only
Cables	\$800	\$40
Cable Installation	\$5,700	\$300
Ethernet switch	\$1,400	\$0
Switch installation	\$440	\$0
Wireless access point	\$0	\$370
Wireless access point installation	\$0	\$440
Total	\$8,340	\$1,150

Less Expensive to Change

It's a fact of corporate life that the company moves, reorganizes, grows and changes. With a wired network, cables and switches need to be moved, more equipment bought, and days or weeks can be spent wiring or rewiring a space. TSC Wireless network design services can help you design your wireless network right the first time. By relying on wireless technology, moving cubes or offices requires no rewiring of network cables. This saves you money each and every time your company changes (See Figure 2).

Summary

TSC Wireless has unique tools and methods to create a reliable, efficient and secure design for your business-critical wireless network. We can help you achieve a much more flexible network allowing you to react quickly to business changes and opportunities. TSC Wireless saves you money on the initial installation and ongoing maintenance, whether or not you choose to install wireless only for clients. Because TSC Wireless has access to The Security Consortium's security experts, we can also ensure your network is secure against unauthorized use and intrusion. TSC Wireless is the only network design service provider that can ensure full coverage of your network with the least amount of equipment.

**To find out more
visit: www.tsc-wireless.com
or phone (408) 971-0984**

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Take Advantage of Business Opportunities

Retail

Wireless POS storewide—move checkout points and kiosks quickly and easily, manage price changes, portable point of sale

Wireless shopping carts

Quickly set up new or seasonal store networks to speed time to revenue

Enterprise

Improve employee mobility and productivity by eliminating dead spots

Use wireless VOIP phones or dual-mode phones without dropped calls

Set up new offices or change networks due to reorganization in a fraction of the time and for a fraction of the cost

Health Care

Better mobility for doctors and nurses with wireless phones and handheld devices

Set up networks for temporary offices or mobile clinics quickly and inexpensively

HIPAA compliance

Exam room connectivity

Figure 2: Comparison of Wired vs. Wireless Network Moving Costs, Per Client Computer

	Wired	Wireless	Cost Ratio Wired:Wireless
Moving from one space to another, hardware only	\$450	\$140	3.2
Moving from one space to another, including employee productivity effects	\$1,400	\$140	10
New tenant, hardware only	\$360	\$90	4
New tenant, including employee productivity effects	\$1,300	\$90	14.4

Source: Research by Dr. Stephen Hessel, 2007.