

7 Secrets to Building Your Own Fiber Network

So You Want Your Own Network?

In recent years government entities, hospitals and universities have been acquiring private networks providing broadband access to selected partners. These Community Area Networks (CAN) allow them the flexibility they need to implement the technologies their businesses depend on.

Key motivators include:

- Retention of fees otherwise paid to service provider
- Delivery of enhanced educational experiences
- Support for research and development initiatives
- Provide advanced communications in rural areas public operators may not be financially motivated to extend access to
- Spur economic growth in today's recession

This eBook explains the 7 secrets to deploying your very own network economically while at the same time meeting your needs.



The question of money

Secret #1: Finance with the times

The American Reinvestment and Recovery Act of 2009 (ARRA) allocated \$7.2 billion in broadband network upgrades. The US Departments of Agriculture and Commerce have begun distributing these funds to candidates who have presented their cases and need.

Secret #2: Get multiple users on board early to reduce costs

Before you begin building, recruit as many users as possible. Adding users has little impact on construction costs—but can dramatically reduce each users cost. Be sure to recruit both private and public entities.

One Hundred Eleventh Congress of the United States of America

AT THE FIRST SESSION

*Begun and held at the City of Washington on Tuesday,
the sixth day of January, two thousand and nine*

An Act

Making supplemental appropriations for job preservation and creation, infrastructure investment, energy efficiency and science, assistance to the unemployed, and State and local fiscal stabilization, for the fiscal year ending September 30, 2009, and for other purposes.

*Be it enacted by the Senate and House of Representatives of
the United States of America in Congress assembled,*

SECTION 1. SHORT TITLE.

This Act may be cited as the “American Recovery and Reinvestment Act of 2009”.

SEC. 2. TABLE OF CONTENTS.

The table of contents for this Act is as follows:

DIVISION A—APPROPRIATIONS PROVISIONS

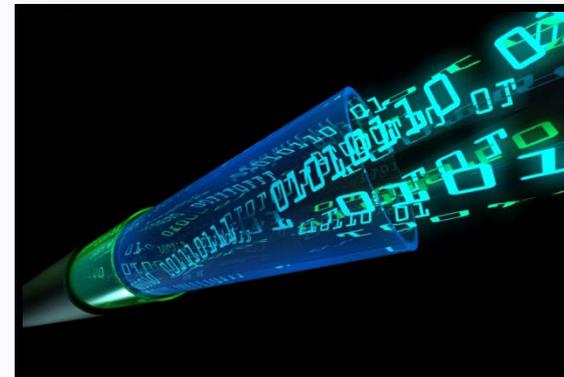
Physically Building the Network

Secret #3: Choose a network engineer and designer with no bias toward a certain solution

The purpose of your network is to first service and promote your business. Stay clear from a network engineer coming to you with a solution before you present the case and the functions you desire from your network.

Secret #4: Choose technologies that enhance productivity and add value to your business

Distance learning and video are rapidly emerging as key technologies unveiling hidden productivity. In 2004, the International Data Corporation projected that worldwide revenues in the corporate e-learning market surpassed \$23 billion, up from \$2 billion in 1999. Distance learning has only blossomed as executives and government leaders realize the benefits.



Making the Network Private

Secret #5: Choose security to withstand today's threats

Current IT security threats are much more complex than they were only a few years ago. They are financially driven, sophisticated, invisible and highly targeted.

Network security firms recommend:

- Maintaining traditional anti-virus protection
- Protect against malware and spam
- Take preventative measures to control access to network
- Control legitimate applications and user behavior
- Control and encrypt devices and data



Driving Down Operation Costs

Secret #6: Outsource Network Operational Center

Outsourcing customer care and network operation services will save you money. Firms that provide outsourced services specialize in call center support, have the manpower and equipment to get network problems quickly corrected.

Secret #7: Seek a network solution that offers a higher level of functionality than current one

Make sure the network you invest in is future-ready and is readily available for upgrades as technology and your needs change. A good network engineering firm will ensure your network performs to meet your needs today and the demands of tomorrow.



We Can Help.

More network operators choose CCI because of the high value they receive from the firm's exclusive Custom Solution Engineering approach.

This creative engineering service identifies your optimum solution—one that satisfies your three highest priorities: performance, cost and future upgrade flexibility.

CCI is one of the only firms to offer a truly integrated end-to-end service solution including engineering, construction, and maintenance/support.

CCI has been providing these services for more than 50 years.

Whether your project is small and simple, or large and complex, CCI has the expertise and experience to consistently deliver on your highest priorities.



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