



**Canal Networks** provide the highest quality engineering and technical expertise when implementing Voice/Data/Video networks on time and on budget.

Our stellar reputation for delivering quality services in a professional and efficient manner is the reason over major colleges and universities, Canal Networks provide design and implementation of your critical network infrastructure. We also

provides move, add and change work, as well as maintenance agreements for almost all types of voice/data/video network systems. Canal Networks highly skilled engineers and technicians. With excellent experience in field and possess a broad range of experience in telecommunications disciplines.

**Canal Networks** is headquartered with offices and warehouse facilities in Ismailia, Egypt. This facility includes educational classrooms for ongoing technical training and our highly rated customer service teams. Our engineering and design systems are also in this facility.

## What we do?

Canal Networks has high performance cabling systems and data communications connectivity. Our staff is experienced in installing everything from iron fence caging, central office environments, D.C. power, optical and data transport systems.

## Canal Networks Services

Canal Networks offer an analysis of your current network. You can think of it as a diagnosis. The Canal Networks Professional Services group maintains at its disposal an arsenal of technologies and methodologies for their implementation. Our constant exposure to fresh technology shifts the burden of keeping up with a dizzying array of technologies from your staff to ours. And this is part of our services:

- ❖ Cabling Systems
- ❖ Wireless Networking
- ❖ Network Integration
- ❖ Network Security
- ❖ IP Telephone
- ❖ Database Development



## Cabling Systems

The most important challenge businesses are faced with when upgrading or deciding on a new network, is to ensure that the completed installation is capable of satisfying not only your current but also future demands. The cabling system is the backbone of the network. Although it represents the smallest portion of initial networking costs, cabling can be the cause of most network crashes if designed or installed improperly.

**Canal Networks** utilizes the right staff; equipment and knowledge to tackle almost any cabling challenge (designing, specifying, installing, terminating, testing and troubleshooting,). From single tenant buildings, multi-building campus environments..... to large telecom cabling system, Canal networks has the resources to design a robust cable plant to meet your ever changing demands while providing standards-based design and installations of voice, data and video cabling systems.



**Canal Networks** also provides testing and certification of existing and new cable plants. This is a very important part of the process to ensure that the cables will perform to the latest standards. The integrity of each installation is verified as each cable is tested against a list of testing parameters. These tests are then turned over to our customers for record purposes. Network documentation translates to accountability to the customer, demonstrated by detailed documents and drawings specifying the network layout (including AutoCAD drawings detailing cable and jack locations). It means test results that outline the capabilities and performance of the network with proof in hand that the network is functioning the way it is supposed to function.



## Wireless Networking

Wireless LANs enable users to establish and maintain a wireless network connection throughout or between buildings, without



the

limitations associated with wires or cables. We offer alternatives to expensive fiber or local Telco connectivity, which have been the limited choices of network personnel in the past. What makes us different is that a customer's specific application requirements drive our solution designs.

Instead of attempting to apply a single manufacturer's solution to a customer need, we draw from a variety of vendors' product offerings to find the one that uniquely meets specific connectivity requirements, technical environment, and budget limitations. We offer presales technical support, wireless link engineering services and on-going wireless network consulting.



We offer an analysis of your current network. You can think of it as a diagnosis. Most networks could use some help as time takes its toll and an increasing number of needs are left unmet. While everyday tasks absorb the staff's attention and energy, it often takes a third party to give an objective picture of the network and suggest long-needed improvements and upgrades.

Canal Networks Professional Services maintains at its disposal an arsenal of technologies and methodologies for their implementation. Our constant exposure to fresh technology shifts the burden of keeping up with a dizzying array of technologies from your staff to ours.

Whether we build your network from scratch or upgrade your existing one, based on our thorough analysis, we will provide you with a comprehensive network design to be implemented by our competent engineers. Building a network requires our system engineers to design around your business requirements, choose the most appropriate hardware and fit all of the components into place. We can provide the expertise to build a fault tolerant, resilient, high performance network to meet every communication challenge.

Before any infrastructure changes can occur, it is necessary to obtain a baseline, or base knowledge of the health of the network. After the required changes have been implemented, Network Baselining shifts to monitoring network health (watching for changes in problem indicators), which is a proactive form of fault management.



## Network Security

An insecure network is an invitation to compromise and abuse by internal and external security threats. While a completely invulnerable network cannot exist, there are some steps that can be taken to secure most existing networks. Canal Networks can analyze your network and suggest ways to reduce the risk and enticement of attack.



After your network has been buttressed against possible immediate attacks, it's time to develop a network security policy to ensure continuous protection. The point is that no organization can afford to be run without ground rules. Canal Networks will turn your company's trust in its people into rules that allow appropriate degrees of access to the information infrastructure. A solid network security policy will promote organization-wide patterns of behavior that will limit access to the network resources only to those originally intended.

After a well-thought strategy has been crafted, Canal Networks can help with the implementation.

This could also include ensuring your up-to-date conformance to the latest security norms and installation of security patches. You can remain confident in your organization's ability to keep up with security threats while keeping your network connected to the outside world. With our Network Support Services you protect your investment in information resources and maintain the peace of mind necessary to perform your real job.



## IP Telephone

Beyond the preponderance of the Internet in our daily lives, the Internet Protocol (IP) is becoming the universal transport of the future. Utilizing IP as the ubiquitous transport offers the enterprise statistically significant gains in bandwidth efficiency, lower overall bandwidth requirements, ease of management, and the ability to deploy new applications rapidly. On the LAN, data, voice, and, video share a common infrastructure.

The current challenge for the enterprise is to optimize networking to carry data, voice, and video traffic. Canal Networks will help your company assess your

network and determine the appropriateness of converged networking. Converged networks are a growing trend and this consolidation of data, voice, and video is the natural evolution for multi-service networking.

Canal Networks will utilize its comprehensive experience in cabling, telephony and networking to create a solution that meets your current needs while keeping in mind the future growth of your network. In most cases, the installation of IP telephony will have as a byproduct a healthier, more efficient network.



One great advantage of IP Telephony and converged networking is the convergence of the support staff previously required to support the two separate systems: Voice and Data. In the traditional paradigm, many companies are uncomfortably dependent on their Telephony vendor for many management tasks. Network convergence means that the network support staff now could maintain the Telephony enabling hardware and assume greater responsibility for the management of the Telephony infrastructure. Tasks like moving a telephone device from one office to another that would normally require voice expertise becomes as simple as plugging the phone into the new location. Furthermore, adding new capabilities and applications to IP telephony are driven by software and more often only entails a software upgrade or application installation. Canal Networks can help with the first steps of the post-convergence era and along the way with issues that are beyond the expertise of the company staff.

## Database Development

At the root of any great business are core business applications that support business processes and maximize employee efficiency. For most companies it is impossible to buy "canned" software that truly meets these needs. If that is the case for your business, we can help! We are experienced developers of powerful client-server applications, web-based data systems, accounting systems, and more! We can develop for virtually any environment including the Web, Linux, Windows, and MacOS. Contact us to setup a free initial consultation or view our recent project experience.



## Why choosing us?

- ❖ Focus, and experience in the carrier, enterprise, university, government, town and state municipalities, general contractor, and real estate markets.
- ❖ Highly skilled engineers and technicians.
- ❖ The people of Canal Networks truly believe the quality of our work, and commitment to our customers is the essence of our success.
- ❖ All engineers have excellent experience, are highly qualified, and highly trained.
- ❖ Canal Networks believes in consistently delivering strong value with competitive pricing on all projects, for all of our customers.