

Networking Solutions

Today's world is characterized by a massive demand for machine communication, and networking is what makes it happen. To support the wide array of devices in use today, many organizations augment their hard-wired local area networks with wireless LANs.

Wired and wireless networks each meet particular needs and offer distinct benefits. JDL Technologies provides wired and wireless network solutions that are efficient, well-designed, skillfully deployed, and highly cost-effective.

Wired Networking

Wired networks remain an important option for businesses, schools, healthcare practices and many other organizations.

End-point devices, network switches and routers



hardwired together create a reliable, dedicated, high-speed connection.

This in turn delivers more predictable performance and enhanced security.

Benefits of Wired LAN Infrastructure

- Added security with reduced risk of data interception
- Superior connection speed and performance
- Increased reliability

JDL Technologies partners with a number of industry leaders, including *HP* and *Cisco*, to offer wired network solutions that can be configured to meet your particular needs.

HP's FlexNetwork Architecture supports open, secure, agile networking with a common operating experience and enables you to scale

in both functionality and size. The 2530 switch series, as one example, consists of four managed Gigabit Ethernet switches that deliver full Layer 2 capabilities with enhanced access security, traffic prioritization and IPv6 host support.

Cisco is building on its Borderless Networks Architecture to advance the Cisco Open Network Environment (ONE) architecture for automated provisioning and rapid deployment of network services and applications. This architecture goes beyond software-defined networking to offer a wider-scale approach to network programmability.

Wireless Networking

By the end of 2013, mobile devices outnumbered people, by some reports. And the use of mobile apps is growing exponentially, in step with the BYOD movement.

Against this backdrop, the need to establish an efficient, robust wireless LAN for your organization has never been greater.

Benefits of Wireless LAN Infrastructure

- Reduced installation and maintenance costs
- Faster upgrades and network refreshes
- Added security for your network and critical applications
- Increased productivity, with shared resources across your employee population

JDL Technologies partners with a number of industry leaders, including *Aerohive Networks*, *Ruckus Wireless*, and *Meru Networks*, to offer wireless solutions that can be configured to meet your particular operational and budgetary requirements.



Aerohive's award-winning cooperative control Wi-Fi architecture, public or private cloud-enabled network management, and routing and VPN solutions eliminate costly controllers and single points of failure.

Patented Smart Wi-Fi from Ruckus uses high-gain adaptive antenna technology and advanced best-path-selection algorithms to form and direct Wi-Fi signals over the highest performance paths to every client.

Meru's first 802.11ac wireless access point is among the industry's fastest due to the use of single-channel rather than multichannel architecture.

Recent JDL Network Engagements

- Installed cabling and wiring for local area network for Doctors 365 medical center
- Installed 400 wireless access points, plus switches, Plenum-rated cable, firestops, sleeves, cable terminations and AP cages for 16 schools in Monroe County
- Managed hardware and software sourcing, networking services and servers for Nipro Diagnostics
- Provided hardware and wiring for more than 230 schools in Miami-Dade County
- Deployed, extended or refreshed WLANs and WAPs, IT infrastructure, and end-user devices for Broward County Schools

Converged Networking

As wireless networks have been overlaid onto wired networks, network administrators have been forced to manage two logical networks, different service sets, and increased complexity.

Those problems are being addressed by unified networks that converge wired, wireless and virtual private networks into a single, secure infrastructure based on one policy source and one management solution.

As one example, the Cisco Unified Access network architecture enables wired and wireless traffic processing to be converged into a single data plane.

Assessing Network Security

Security is an essential element of any network, and JDL engineers routinely conduct Network Security Assessments to identify vulnerabilities and offer remediation recommendations. Assessments should be performed annually to keep pace with network infrastructure changes.

Additional Networking Services

In addition to secure networking solutions, JDL offers network tuning and cabling, MPLS, private line and wavelength. We also offer a portfolio of Managed IT Services that include 24/7 network monitoring, patch management, vendor management and other services.

Enhance Your Competitive Edge

A robust, secure network is a business asset and a competitive advantage. With more than 300 years of technical experience and over 135 professional certifications, the JDL Technologies team has designed countless networking solutions for clients across a range of industries.

Whether your network is wired, wireless, or both, we can do the same for you.

