Mobility

Secure Wireless Voice, Data, Video

High-performance wireless is the foundation for transforming business with mobility. Unleash the power of thought by giving employees the tools to communicate and collaborate anywhere at any time.

Vision Technologies brings wireless networking to high-traffic public areas, such as airport terminals, convention centers, hotels, shared offices, manufacturing facilities, warehouses, auditoriums and classrooms. Enhanced authentication and security gives access to authorized users while preventing snoops, interlopers and freeloaders. Thanks to comprehensive security, you can confidently deploy our wireless technology for use in sensitive corporate applications. End users get convenient, high-speed access, while you get management control and total peace of mind.

- ▶ Enterprise Wi-Fi Access & Hotspots
- ▶ Guest Access Solutions
- ▶ Wi-Fi for Business Services (VoIP, CCTV, handheld scanners, point-of-sale (POS), digital signage, etc.)
- ▶ Multi-Service Mesh Networks
- ▶ Outdoor Broadband Wireless / Wi-Fi
- ▶ Point-to-Point Wireless
- ▶ Point-to-Multipoint Wireless
- ▶ Wireless Video Surveillance
- ▶ In-Building 3G/4G Solutions
- ▶ Wi-Fi Cellular Boost
- ▶ Amplifiers/Repeaters Installation
- ▶ Public Safety Solutions
- ▶ RFID

Increase Productivity
- ▶ Access network, information, and applications wherever you are
- ▶ Access voice over WLAN, guest access, and context-aware services
- ▶ Access network resources in real time

Safeguard Your Network
- ▶ Maintain consistent user identity
- ▶ Secure and manage the network as a business asset
- ▶ Vision provides FIPS 140-2 Compliant systems for enhanced wireless security
- ▶ Ensure business continuity, overcome threats, and facilitate regulatory compliance

Collaboration
- ▶ Give employees access to their team wherever they are
- ▶ Support data, voice, and video communications with one integrated network
- ▶ Collaborate with a variety of mobile devices

802.11n Scalable Performance
- ▶ Address the wave of mobile client devices entering the network
- ▶ Speed up wireless transactions with a performance faster than wireless from other vendors
- ▶ Seamlessly integrate with your existing wired topology

Put Your Assets in Motion
- ▶ Analyze mobile assets and their users to improve productivity
- ▶ Gather contextual information to make better business decisions
- ▶ Detect and mitigate interference or security threats

Secure, High-Speed Access
- ▶ Enhance public safety and information access
- ▶ Connect fixed and mobile applications across metropolitan areas
- ▶ Link campus and branch offices at a lower cost

Industry-standard Wireless Networking

Our wireless solutions are firmly based on the Institute of Electrical and Electronics Engineers (IEEE) 802.11a/b/c/g/n (Wi-Fi compliant) standard for wireless LANs.

You get robust, reliable connectivity and the high performance of wired LANs, but with the flexibility, mobility, and low cost of wireless.

Deployment of a wireless network requires careful planning. Business requirements and objectives need to be evaluated and a site survey must be undertaken to determine possible sources of interference.

Wi-Fi networks can be tricky to implement in high-interference areas, be incompatible with existing equipment, and can open up security risks. WLANs are best used in addition to — rather than a replacement to wired networks. Our engineers will assure proper planning when designing and implementing your wireless network. The complexity of your network will vary depending on the obstacles within and the size of your facility.

VISION TECHNOLOGIES
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Site Surveys

Secure Wireless Voice, Data, Video

A site survey is always performed first. We can do this by either a physical survey of the customer's premise to locate the best possible places to install access points and ensure 100% wireless coverage with optimum performance, or a *predictive survey* using software designed to predict the AP placement.

Before installing any wireless devices, we perform a radio frequency (RF) test in order to better understand the behavior of radio waves within a facility. This is recommended because various obstacles such as doors, walls, elevator shafts and people might affect the radio frequency pattern, causing it to be irregular and unpredictable. Even if you are using omnidirectional antennas, radio waves do not travel the same distance in all directions. The RF test can also detect any radio interference that might come from other sources and could affect the performance of the wireless local area network (LAN) negatively. The ultimate goal of the site survey and RF test is to help determine the number and placement of the access points.

- ▶ Enterprise Wi-Fi Access & Hotspots
- ▶ Guest Access Solutions
- ▶ Wi-Fi for Business Services
- ▶ Manufacturing Facilities
- ▶ Warehouses
- ▶ Data Centers
- ▶ Hospitals/Healthcare
- ▶ Retail
- ▶ Hospitality
- ▶ Campus/Mesh Networks
- ▶ RFID

A detailed RF survey, in conjunction with site engineering, can be performed and will ensure that the rollout will be done according to the mutually agreed plan. The RF Survey is the key to a successful deployment.

The detailed RF and Site Engineering survey includes:
- ▶ Verification of the proposed equipment room
- ▶ Identification of the transmission access point
- ▶ Selection of a suitable radio unit to meet the capacity requirements
- ▶ Antenna system design
- ▶ Active measurements — test measurements to comply with the signal strength requirements in the predefined areas
- ▶ Budget calculations based on estimates of feeders, power splitters and couplers to be deployed
- ▶ Identification of cable routing
- ▶ Verification of the cable routing

The output from the RF and engineering survey will result in the in-building design proposal, which comprises:
- ▶ Building information
- ▶ Equipment type and materials required
- ▶ Distributed Antenna System diagram
- ▶ Coverage indication
- ▶ Proposed antenna types and antenna locations
- ▶ Proposed feeder route

Wireless Installation

Vision Technologies will integrate the Wi-Fi system into your current network, as well as install all the required wireless equipment and certify its operation.

Our Structured Cabling team will make certain that all cabling and power runs are installed and tested prior to the installation of access points. Our knowledge includes 802.11a/c standards.

Below is a list of activities that one might expect during an installation:
- ▶ Mounting of antenna access points
- ▶ Installation of enclosures on case-by-case basis (physical security)
- ▶ Mounting of antennas
- ▶ Connection of antennas to access points
- ▶ Connection of backbone LAN to access points
- ▶ Connection of power to access points
- ▶ Installation and connection of remote power system
- ▶ Verification of coverage

Configuration of access points and hardware:

- ▶ Proper firmware level
- ▶ Radio information (SSID, channel, bit rate)
- ▶ IP addresses
- ▶ Verification of network connectivity

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