



## Clients rely on SIGNET's wireless RF system approaches to meet their unique needs.

### Point-to-Point Microwave

Reliable, high bandwidth connectivity is essential for businesses to function. We design and install a wide range of microwave systems to support high bandwidth LAN and WAN formats. Using a judicious choice of network topology, vendor radios, frequencies and antenna sizes, we find the right balance to meet each client's requirements while minimizing cost.

Network reliability is of crucial importance. SIGNET's wireless links are designed at 99.999 reliability. Our systems provide both primary and backup communication as required. The well-prepared IT Manager can also extend LAN/WAN applications involving voice and data over the same high-speed channel. We can provide systems from 100 MB/sec up to 20 gigabit of throughput.

### Point-to-Multipoint

There are applications when a point-to-point communication solution is not sufficient. SIGNET can design and deploy a point-multi-point solution where several of your remote sites can be connected back to a central location reducing overall cost and complexity.

Offering expertise in the following point-to-multi-point applications:

- Municipal wireless networks bandwidth upgrade
- Public Wi-Fi hotspots bandwidth
- Campus Internet access solutions
- IP Video camera surveillance security
- Wireless WAN/LAN outdoor networks
- Last mile extension for wireless Internet service providers

### Mesh Architecture

Using mesh technology to distribute Wi-Fi access is a great solution for customers with hard-to-wire facilities or where temporary access is needed. These systems enable rapid deployment and they are typically self-forming and self-healing once configured. If a device fails, traffic is re-routed around the disabled device.

Solutions are cost effective and available on both "light licensed" (for public safety) and unlicensed spectrum. A single mesh device can provide both mesh- to-mesh communications as well as mesh-to-client communications. As a result, mesh deployments are often hardware and cost efficient.

Mesh deployments are ideal for clients that need to distribute internet access in locations where easy-to-deploy wireless coverage is needed.

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## Video Surveillance

Video surveillance is not a one-size-fits-all solution. SIGNET will provide a solution that meets your specific requirements for field of view, lighting conditions, environment and your budget. The products we recommend are all ONVIF compliant enabling us to provide you with a VMS platform from one vendor and cameras and equipment from a variety of other vendors.

All of our deployments include: system design, installation and training; support and maintenance service; wireless networking/city surveillance; ONVIF compliant products; video management software; IP cameras; and network video recorders.

We are fully qualified as required by the Commonwealth of Massachusetts, including holding Security "S" licenses and certificates of clearance for all employees.

## Path Consulting Services via Path Profile

If you have the ability to deploy systems independently, our wireless network consulting services arm can assist you. As a result of our path engineering you will have a clear understanding of your system's performance prior to installation and deployment and your network will be optimized.

Our engineers consult in a variety of areas including wireless path analysis and product selection, frequency coordination and FCC licensing for licensed systems, fiber extension and testing, reliability studies, network and facility monitoring and network security design.

## 7 X 24 Service

Our highly trained and certified field technical staff possess both RF and networking diagnostic capability to provide expert 7 X 24 coverage for both emergency and routine maintenance. We provide maintenance support for all our clients, including those not covered by a maintenance agreement who are charged on a time and materials basis.

SIGNET's LinkPatrol Network Monitoring accelerates the mean-time-to-react by enabling our technicians to have around-the-clock visibility into the status of your critical links.

## Preventive Maintenance

Although manufacturers often claim MTBF (Mean Time Between Failure) statistics well into several hundred thousands of hours, reliable and consistent microwave performance is enhanced by periodic calibration and checking of components for mechanical failure. Preventive maintenance services are especially critical for licensed microwave systems and are included in all SIGNET client maintenance contracts.

## Certifications

We hold many certifications including FCC General Radio Telephone Operator License (GROL), CCNA and specific vendor training for the many radios we install and maintain. All field staff have completed OSHA and fall protection training.