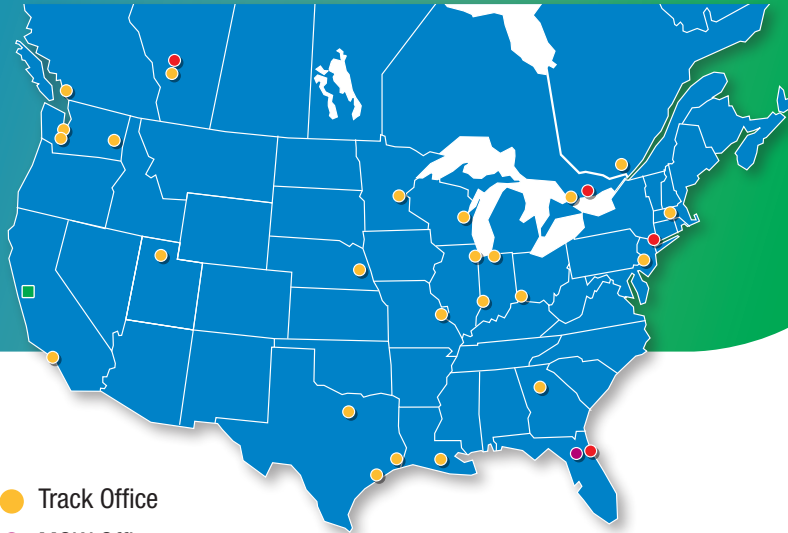


COMPREHENSIVE NORTH AMERICAN NETWORK

with more than 25 offices to serve you



- Track Office
- MOW Office
- Signals & Communications Office
- HSQ Office



A RailWorks Company



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The following companies are
subsidiaries of RailWorks Corporation:
L.K. Comstock & Company
L.K. Comstock National Transit
HSQ Technology
RailWorks Projects
RailWorks Transit

HSQ

Building Transit Technology for Tomorrow



A RailWorks Company

Delivering Communication and Supervisory Monitoring and Control Solutions for Transit, Government and Industrial Customers

HSQ Technology, a RailWorks company, has been delivering innovative data acquisition and communications systems to a range of customers for nearly 40 years.

Founded in 1979, HSQ Technology, headquartered in Hayward, Calif., has established itself as the go-to, single-source provider of turnkey solutions and support for utilities and facilities, including water systems, wastewater systems, electric power generation and transmission systems, military bases, public transportation systems, and other large institutional facilities around the country and the world.

HSQ At a Glance

- 40 HSQ-dedicated employees, in addition to the vast RailWorks employee and office network
- More than 200 Major System Installations Worldwide
- Full service panel fabrication shop
- Complete repair services
- Licensed contractor in 15 States
- Registered as Foreign Corporation in 31 States

HSQ Technology has extensive experience in designing, manufacturing and integrating its own data monitoring and control and communications systems, and can also work with third-party hardware and software solutions to design a custom end-to-end supervisory system for its customers. HSQ engineers have worked with a wide range of products and have in-depth knowledge in many engineering disciplines, including electrical, mechanical, instrumentation and control systems, CCTV systems, public address systems, access control, messaging displays, and control room design.

HSQ strives to provide top-quality products and service to our customers. Service plans can be tailored to a customers' specific needs, and include 24/7 customer support line manned by qualified field service engineers to troubleshoot a problem at any time. The company also has qualified field service personnel permanently stationed in North Carolina, Colorado, New York and California.

The knowledge and experience of HSQ Technology, combined with the depth and breadth of the RailWorks footprint, is poised to continue serving customers' needs for many years to come.

MIAMI AUTOMATED PEOPLE MOVER (APM)



In a first of its kind project, HSQ designed an advanced Wi-Fi network using Wireless Access Points (WAP) to provide streaming security video from cameras situated in the APM vehicles to wayside and central video monitoring systems. This was the first implementation using Cisco WAP routers, where WAPs installed in the vehicles, streamed real-time live video to fixed wayside WAPs configured in a mesh network. This allows operators to monitor the APM, insuring passenger safety.

This installation has been in service for more than 15 years, and through HSQ expertise the original investment by Miami Airport has been maintained and kept functioning far beyond what is typical for network hardware, including switches, routers and servers, which represents favorable return on the customer's investment.

SEATTLE SOUND TRANSIT



HSQ was responsible for the entirety of the Communications system for Seattle Sound Transit, including the addition of three new stations to the line. This included all aspects of the network (switches, routers, servers, backbone, etc.), public address, visual message display, telephone (emergency, public, and private), access control, SCADA (building management), and radio. Additionally, a new Fire Life Safety industrial gigabit network based on Moxa Layer 3 switches was installed. Both systems span the more than 20-mile Link Light Rail complex, with substantial future growth expected. Each network backbone is completely redundant, assuring system-wide availability to cover any switch or router failure.

HSQ works with our clients to leverage their existing fiber installations and assist them in documenting and assigning their existing fibers optimally to support network growth. Along with high availability, these networks support approximately thirty virtual LANs, including SCADA protocol data, industrial remote I/O, VoIP telephony, streaming video to both the central security system as well as to local network video recorders, access control systems, intelligent message boards, tunnel voice radios, and public address systems. The expansion and deployment of these networks was done in coordination with the client and numerous contractors, all while supporting a functioning light rail system. HSQ produced the necessary design documents, managed the network configuration change, and worked with manufacturers to integrate improvements into their switching products to support the functional requirements of these networks.