



Location

INOC was careful in choosing its location both geographically and technology wise. A location in the heart of the city was chosen, providing ample access and choice when procuring backbone carriers.

- In the heart of downtown Albany, the State Capital and the Internet hub for the Capital District, Adirondacks and Catskills
- Competitive Pricing for All Telecom Services
- Secure Building, with multitude of Fiber and Internet backbone providers

Physical Attributes

INOC believes the physical attributes of the Network Operations Center are an important aspect of its service and growth, second only to its personnel. By engineering a technologically superior space, a solid, long-term foundation has been built for the services provided.

- 3000+ Square Feet of Conditioned Network Operations Center space
- Temperature and Humidity controlled HVAC system, with Alarming
- OnSite Diesel Power Generation, active at Full Load within 10 seconds of Power Loss (services stay active with UPS – see below)
- Multiple, Integrated UPS for Conditioned Power and Conversion to Generator Power during the first 10 seconds

- Static Dissipating Tile throughout NOC Room
- FM-200 Dry Suppressant Fire System, Keeps the Equipment Running
- Alternate and Redundant Power Feeds to Server and Network Racks
- Enhanced Cat 5 and Fiber Cabling Throughout
- Alternate Fiber Optic Network Paths for Backbone Bandwidth Services (alternate paths into and through the building)





Network Design

INOC decided on industry leader Cisco Systems for internal and external networking equipment. INOC managers and employees have a vast amount of experience using Cisco network equipment, and feel that Cisco support is second to none in the industry.

- Network Vendor of Choice is Cisco Systems
- Network Core is Fully Redundant Cisco Nexus 7000 Series
- Border Routing is Handled by Fully Redundant Cisco ASR 9Ks
- Each Network Component is Redundant and Load Balanced
- Automatic Trouble Detection, Network Equipment is monitored 24x7 with Trapping and Paging Functions
- Full Remote Access and Control of Network Equipment Allowing 24x7 Out of Band Access for Troubleshooting Purposes (quick response time to problems)
- Multiple Diversely Routed 10 GE Backbone Connections for Easy Bandwidth Scalability and Reliability
- Performance, Utilization, and Availability Reporting

Experience

INOC's chief engineers, which INOC's believes are its most important asset, are experienced industry veterans. Additionally, INOC owner companies have a combined 400+ years in the telecommunications business.

-  INOC Chief Network Engineers have over 30 Years Experience
-  Experience Covers All Major Hardware, Networking, Programming and Software Backgrounds
-  Owned by a Group of Established Family Owned Independent Local Exchange Carriers (ILEC), each with Over 100 Years of Telecom Experience, and over 400 Years of Combined Experience
-  Partnered with ION, LLC...2200 mile fiber optic backbone network serving upstate New York with 4 redundant, diversely routed Fiber rings