



# NETWORK PLANNING AND DESIGN

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Networks are the glue that holds an IT system together. They connect your users and constituents to the data, information, and applications they need to accomplish your agency's mission and access your agency's services. Planning and designing a nimble and accessible network is mission critical for an agency and requires knowledge of the latest technologies and configurations. A strategically planned and designed network will provide sufficient capacity, availability, reliability and security to serve your current and future business needs.

NYSTEC has the depth and breadth of skills and experience to help you determine the best combination of network strategies and technologies to meet your needs. We have broad, in-depth experience developing a wide range of networks, from conventional wired data communication networks and telephone systems to wireless networks and IP telephony. NYSTEC doesn't just solve your "right now" networking or IT problems: we combine short term recommendations with long-term strategy to provide a foundation for future growth.

NYSTEC is an unbiased, not-for-profit technology advisor to government agencies educational institutions, and economic development organizations seeking to establish or enhance their voice, data, or video networks. Our team is independent of any telecommunications provider, software company, or hardware vendor, and has the knowledge and experience to analyze your organization's telecommunications networks and recommend cost-effective improvements to satisfy all your networking needs.

## **NYSTEC HAS PROVIDED NETWORK PLANNING AND DESIGN SERVICES TO: \_\_\_\_\_**

- City of New York
- Mohawk Regional Information Center
- New York Power Authority
- New York State Office for Technology
- New York State Workers Compensation Board
- Many more New York State, New York City and local government entities

**NYSTEC**

**Network Technology Knowledge** – NYSTEC engineers advise you across the complete spectrum of networking and telecommunications technologies, including telephone, PBX, and Centrex systems; LANS and WANS; wireless (Wi-Fi and WiMAX), cellular, PCS, and radio; VOIP; distance learning and video conferencing; private networks, Ethernet, and frame relay; fiber; and local and long distance.



**Network Analysis** – Before you upgrade your network, NYSTEC helps you develop a thorough understanding of your current capabilities and future needs. NYSTEC's network analysis services—infrastructure assessment, network and equipment audits, telecommunications service review, system design, performance and specification review, technology needs analysis, requirements definition, security analysis, technology options analysis, vendor analysis, and evaluation of lease vs. own options—provides a solid foundation for developing your future network plan and design.

**Network Planning** – Today's organizations must match changing requirements to an ever-evolving array of technology alternatives. NYSTEC provides a wide range of services to help you plan your networking future, including e-rate compliance, cost analysis, life cycle analysis, feasibility studies, facility demand calculations, broadband capacity planning, telecommunications financial planning, RFI and RFP development, proposal review, project scaling, and short term and long term infrastructure planning.

**Network Design** – NYSTEC works with your vendors to design stable and scalable networking solutions. Our design services include project management, technical due diligence, infrastructure design, multi-location private network design, systems integration, stability and redundancy testing, network architecture development, logical and physical network modeling, and design services management.

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**Sales Inquiries:**

phone: 518.431.7020

e-mail: [nystec@nystec.com](mailto:nystec@nystec.com)

**NYSTEC**

**IN-DEPTH GOVERNMENT IT EXPERIENCE,  
BROAD BUSINESS KNOWLEDGE.**

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