

Case Study

General Services Administration: Wireless Networking Applications

For the past two years, Network Designs, Inc. (NDI) has designed and implemented reliable wireless networking solutions for General Services Administration (GSA) Federal Supply Service (FSS) Office of the Chief Information Officer (FI) for agency and client use. **Flexible. Local. National. Global.** NDI's wireless networking solutions have delivered flawless performance. With costs for wireless devices steadily decreasing, the benefits to using easy-to-implement wireless solutions have been increasing. At GSA, NDI has used this state-of-the-art technology to its advantage, providing a proven alternative to hard-wired networking systems.

Flexible

For the Bush-Cheney Presidential Transition Team (PTT), NDI used building-to-building and in-building wireless networking technologies to connect GSA to the PTT building, then provide in-building workgroup communication for the president's staff. This wireless solution provided seamless communications—network, e-mail, Internet—to approximately 400 users.

Local and National

NDI installed wireless workgroups at GSA FSS Central Office in Crystal City, VA and at GSA FSS Fleet locations nationwide. To effectively maintain these workgroups, NDI implemented—

- WEP and VPN Encryption
- Network and Virtual LAN Integration
- Web Management
- RADIUS Server Configurations

Global

NDI designed a wireless networking solution that allowed GSA FSS offices, warehouses, and military depots throughout Asia (Japan and Korea) to communicate—through e-mail, Internet, FTP, network—to the States. Using multiple wireless technologies and a local Internet services provider, NDI enabled the transmission of all daily transactions from Asia to the United States and full Internet access to GSA and military staff throughout Asia.

- Campus-Style Multipoint Solutions
- Building-to-Building Solutions
- In-Building Workgroup Configurations

GSA Wireless Tradeshows and Conferences

NDI has implemented wireless networking solutions for many GSA tradeshows and conferences in the past two years. NDI has used proven methods to reduce the setup and installation costs of cabling infrastructure at tradeshows. By planning the locations of wireless services and ensuring backup telecommunication lines, NDI has consistently delivered seamless communications solutions at GSA enterprise events.

- GSA-sponsored FOSE 1999
- GSA-sponsored FOSE 2000
- Fleet Furniture Expo — Germany 2000
- Asia FSS R9 Hawaii Customer Support Centers Managers Conference 2000
- GSA FSS FP Conference 2000
- Asia Customer Support Centers Managers Conference 2001
- GSA Fleet IMEAC 2001

Other Wireless Networking Applications

- Nationwide wireless LAN / WAN use in lieu of system upgrades
- Training rooms within enterprise facilities
- Conference rooms within enterprise facilities
- Temporary workgroup locations
- Work-at-home locations
- Help desk areas

NDI Wireless Networking Solutions

Site Survey • Design • Documentation • Engineering • Integration • Hardware Specification & Procurement • Installation • Field Acceptance • Testing • O&M

