

# Remote Access

## Enhancing and expanding the reach of your Network

### What is remote access?

Experts for years now have been predicting the rise of the 'virtual office' where employees are not physically tied to a central or even a branch office. The high-speed networks with large bandwidths were supposed to deliver this solution to every user requiring remote access.

Remote access is the ability to reliably and securely allow authorized users access to your systems from remote locations and still provide the user experience and productivity as if they were working from a desk located at your office.

### What are the options?

There are a number of ways to set-up a remote access solution. NHI can design the right solution to meet your business and user requirements.

**Dial Up to RAS:** One of the oldest, simplest, and least expensive methods is through analog/digital modems. This is an open connection between two computer systems using dial up modems across a PSTN (Public Switched Telephone Network). Typically the central office location would use a RAS (Remote Access Server) for its connection.

**Internet VPN:** A VPN (Virtual Private Network) is a private, secure connection between two computers over a shared or public network (Internet). Internet VPN solutions range from modem to high-speed public and business internet connection solutions, DSL and Cable being the most prevalent.

**Broadband VPN:** Broadband VPN like Internet VPN is a private, secure connection between two computers over a shared or public network (Internet). The major difference is the use of expensive Broadband technology to ensure high-speed and high bandwidth connections. Broadband solution typically entails the use of T1, LAN Extension, ATM, and Fiber solutions.

### What are the Pros & Cons?

Each of the remote access solutions have benefits as well as shortcomings. The choice of solution for your business is one that should be well planned.

**Dial Up to RAS:** While being the least expensive of the solutions, this is also the simplest system to implement. Telephone lines are readily available in the remotest of remote locations. The shortcomings to this solution are: speed (modems at best are slow 24 - 56K), data transfer security, long distance costs, modem failure rates, and maintenance.

**Internet VPN:** A VPN solution while being more expensive to implement, can deliver greater benefits and reduced ongoing costs than a dial up solution. VPN offers a secure method of data transfer, low cost connectivity from anywhere in the world (Internet), typically greater speed, and greater reliability of the equipment.

**Broadband VPN:** This solution, (typically reserved for Branch office connectivity) offers the highest speeds and bandwidth available, greater guarantees of availability and connectivity, greater data and connection security. Unfortunately, this solution is very expensive. Initial and ongoing operational costs are typically very high. Implementation is limited to locations where broadband solutions are available.



## Think Solutions

It's now the new millennium, and for many the ability to remotely access their company computer systems, has not become a reality. The main problem of trying to work remotely has to do with the fact that high-speed and large bandwidth access is not available everywhere and to everyone who needs it. Where there are available high-speed and large bandwidth environments and networks, VPN can effectively deliver the necessary solution you require. In areas where high-speed and large bandwidth solutions are not available, then remote access is a time-consuming, frustrating and expensive solution. It becomes very important when considering a remote access solution, that all business and user requirements are studied and considered.

Noble House International offers remote access solutions that meet both your business and remote user environment needs, delivering on the prediction of the experts after all these years. Our approach to meeting your needs:

- Define your requirements
- Connectivity options
- Security options
- Analyze costs
- Set standards
- Training & Maintenance

*Are you Thin? Ask us how Remote Access solutions can benefit from a Thin Client Approach.*



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