Dedicated Internet Access

Lightyear Dedicated Internet Access (DIA) gives your company constant links to anywhere. Your information flows are transmitted with maximum security, unsurpassed reliability, and at the speed of light! And, our full array of DIA options gives you tremendous flexibility and maximum efficiency, enabling you to right-size the connectivity into each of your locations – and then changing those solutions as your business needs grow and evolve – from cost-efficient Web browsing to hosting your own Web servers.

- Lightyear only offers carriers with Tier 1 connections to the Internet, guaranteeing equal upload and download speeds (unlike often oversubscribed Cable and DSL).
- Lightyear Dedicated Internet Access is available with or without an ADTRAN Netvanta 3200 router (see other side).

Connection Options

- High-capacity, full-duplex, isochronous transmissions at speeds up to 1,000 Megabits per second (1 Gigabit per second) with burstable data packets
- DS-0, DS-1, NxT1, DS-3, OC-3, OC-12, Ethernet, Fast Ethernet (100 Megabits per second) and Gigabit Ethernet.

Features

- Nationwide Fiber-Optic Tier 1 Networks – for reliable, high-bandwidth connections
- Full Compatibility – with Windows™, Macintosh®, UNIX, Apache and Linux Red Hat operating systems
- 24-Hour Network Monitoring and Free Technical Support – to ensure continuous connections and address any issues, anytime
- LAN and Email Integration – smoothly integrate Internet-based email with your company's existing network email system(s)
- DNS Registration and Maintenance – create and preserve your company's Internet presence(s)
- Border Gate Protocol (BGP) – set up Default and Back Up routes using different carriers, to ensure full redundancy
- Voice and Data Integration Capabilities – have your company's Internet access and long-distance voice services delivered over the same circuit (a Lightyear specialty!)
- Available Nationwide with No Distance Restrictions – mix and match carriers to provide the best overall solution(s)

Applications that you can run on Lightyear's DIA

Lightyear's Dedicated Internet Access can help with any type of data transmissions your business needs, including:
- LAN-to-LAN Communication (Ethernet Private Line)
- Wireless Internet Access (802.11a, b, g and n)
- Voice over IP (VoIP)
- Virtual Private Networking (VPN)
- Softphones
- Facebook, My Space, YouTube and all blogging sites
- Sales and Order Entry
- Remote Database Access
- Real Time File Transfer (including audio, video and large image files)
- Document and Resource Sharing (e.g., WebEx)
- Terminal Emulation

Optional Equipment: Netvanta 3200 T1 router

Netvanta 3200 T1 Router Features:
- Modular Network Interface Module (NIM) – offering flexibility
- Modular Dial Backup Interface Module (DIM) – guaranteeing bandwidth
- Stateful Inspection Firewall – for network security
- Quality of Service (QoS) – for delay sensitive traffic like VoIP
- Command Line Interface (CLI) – mimics industry de facto standard
- Optional DSX-1 Interface – supplies TDM voice transport
- Comprehensive PPP Dial Backup Scheme – prevents network downtime
- VLAN Trunking (802.1Q) – for routing between VLANs
- Network Address Translation (NAT) – for IP address concealing
- Optional VPN – for secure corporate connectivity across the Internet
- Built-in DSU/CSU – for circuit protection
- Feature-Rich ADTRAN Operating System (AOS)