Dynamic T1 - Your IP Gateway

Combine your company's Internet access, local voice traffic and long distance needs onto a single, dynamically allocated circuit: Lightyear's XSTREAM Dynamic T1. Powered by Cisco, Level 3, Broadwing, Sylantro and CCS, and delivering up to 24 simultaneous calls with half a T1 bandwidth (768 kps) still available for Internet access, this state-of-the art circuit offers seamless integration with existing PBX or Key System telecom infrastructure, while preserving current phone numbers.

Lightyear XSTREAM Dynamic T1 empowers your company to reclaim bandwidth, while still supporting advanced data transfer applications and Internet browsing, all while maintaining consistent upload and download speeds with the reliability your business demands.

Private and secure, the Lightyear XSTREAM Dynamic T1 is ideal for businesses and organizations that:

- Require extra bandwidth for large file transfers
- Exchange critical data files
- Need high-speed Internet capabilities
- Must control CPE and infrastructure costs
- Are looking to use the power of VoIP technology to increase productivity
- Want the simplicity and savings of converging voice and data onto one network

Providing multi-location capabilities, the Lightyear XSTREAM Dynamic T1 supports customers with locations throughout the country with a "single box" solution utilizing a Cisco 2430 series IAD. On-Net VoIP-to-VoIP calls eliminates intra-company long distance charges.
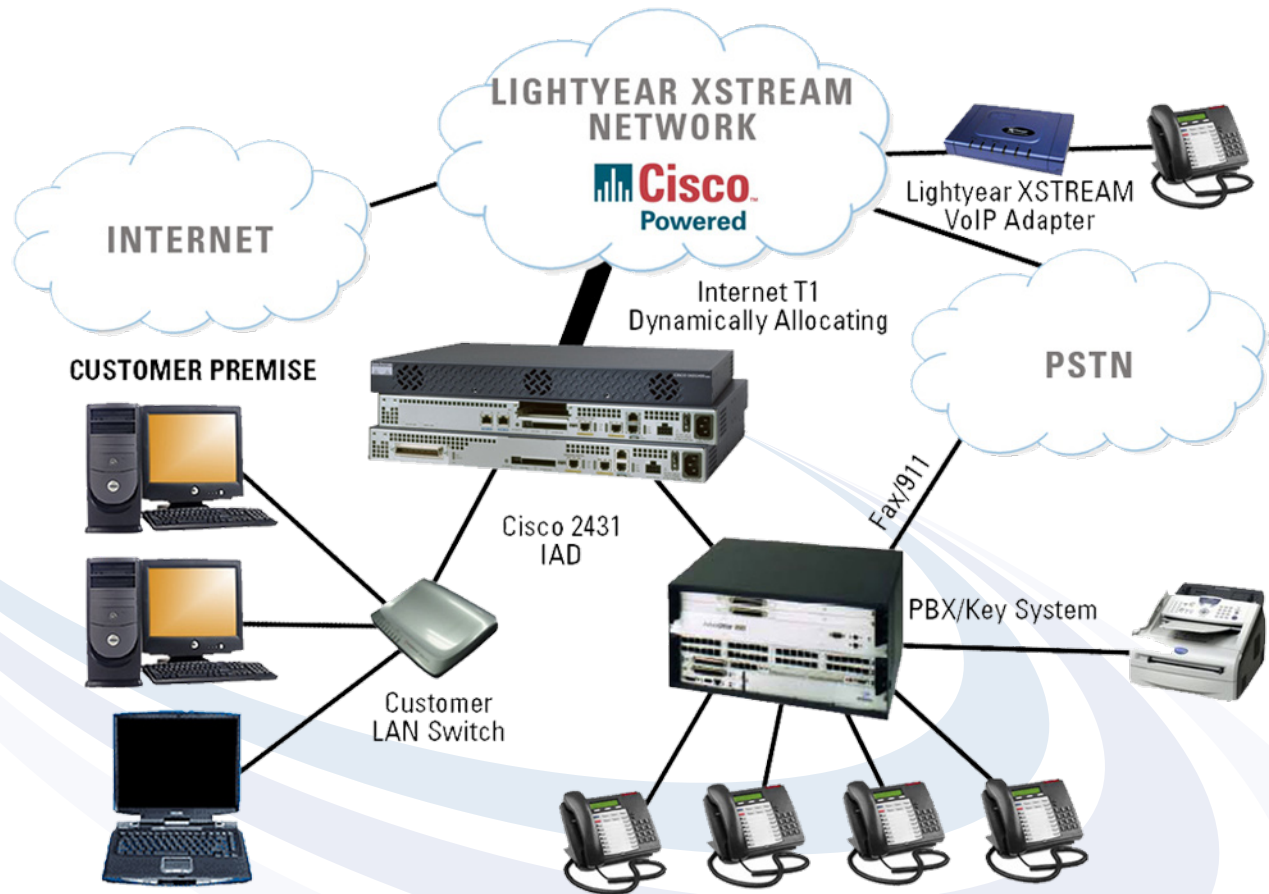
Addition features of the Lightyear XSTREAM Dynamic T1 include:

- Location-to-location dialing
- LATA-wide local calling
- POTS, PRI or T1 card hand-off
- VPN capabilities
- Managed Services and Find Me/Follow Me options
- 200 free minutes domestic long-distance per line
- Virtual Phone Number availability
- E911 and directory listing
- Basic local calling features
- Supports fax and modem lines
- Professional Lightyear installation and superior customer care

Lightyear provides simple, single-source billing, with no hidden fees. Professional installation personnel and dedicated, 24x7x365 support services set the company apart. Serving customers since 1993, Lightyear is the choice for converged and dynamic voice and data T-1 connectivity.

Dynamic T1 Service Application

How It Works

An Integrated Access Device (IAD) aggregates all local, long distance and Internet access traffic services across the Lightyear XSTREAM Dynamic T1 circuit. The IAD interfaces with existing phone system (POTS, PRI or IP-based). The IAD also enables the existing data LAN to provide Internet access via an Ethernet handoff.

As simultaneous calls are placed, the Internet bandwidth is dynamically allocated to voice users to ensure calls are a priority. If several calls made, more bandwidth is set aside for voice traffic. If there is no voice traffic, the entire T1 is available for Internet and data networking usage.

Depending on the codec, each voice call can be packet compressed to 30 kbps of bandwidth – less than half of the traditional 64 kbps – without any loss in call quality. Up to 24 phone calls can be in progress simultaneously and half of the T1's bandwidth (768 kbps) still remains available to support Internet access and data networking.