Case Studies- Network Infrastructure- LAN

Leading IT company in Bangalore chooses Netsol for setting up a LAN.

Client Context: Our client is a leading provider of telecommunications software solutions and services to companies around the world. They are headquartered in Bangalore, India, with offices across the world and employ over 1000 people worldwide. They are a quality-conscious company and their solutions are backed by ISO 90001:2000 quality certification; they have also been awarded SEI CMM Level 5 certification for process quality.

The Requirement: The client wanted to setup a 9000+ sq Meter facility with necessary LAN infrastructure to accommodate its growing employee base. The following were their requirements:

- High Availability
- Physically separate Data and Voice/Facilities Management Networks
- Ease of Management and Trouble-Shooting of Network Infrastructure
- Network Infrastructure Disaster Recovery Plan

The Solution: Netsol's methodology was to first understand the existing Network setup which included the following components:

- Network Topology and Architecture
- Broad Application overview, performance and criticality
- Understand the Geographical Distribution of Resources and Employees
- Understand the Information Flow

As per our Assessment we found that company had 8 Separate sites (each with standards based Structured Cabling Infrastructure) connected by 2 Mbps Wide Area Links. Operating Systems used were that of Solaris, Linux and Windows, and applications used were basically ClearCase. Netsol adopted a structured approach by performing the following:

- System Study
- Data Analysis
- Design Documentation

Netsol's scope of work encompassed these areas:

- Network Topology and Architecture for the company's new Set-up
- Guidelines for Structured Cabling Infrastructure
- Guidelines for Active Switching Equipment Selection
- Cable Routing and Raceway Layout's
- Rack Elevation and Layout Diagrams
- Environmental Specifications for Distribution Frame Rooms and Server Rooms
• Physical and Data Link Layer Technology Selection
• Bills of Materials for Active and Passive
• Numbering and Labeling Scheme
• Installation and Certification Guidelines