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An ISO 9001 : 2000
Certified Company

WAN Solution for high speed Data Transfer

A Small business enterprise

Requirement :

The customer wanted to establish WAN Connectivity between two locations which are 500 Meters apart.

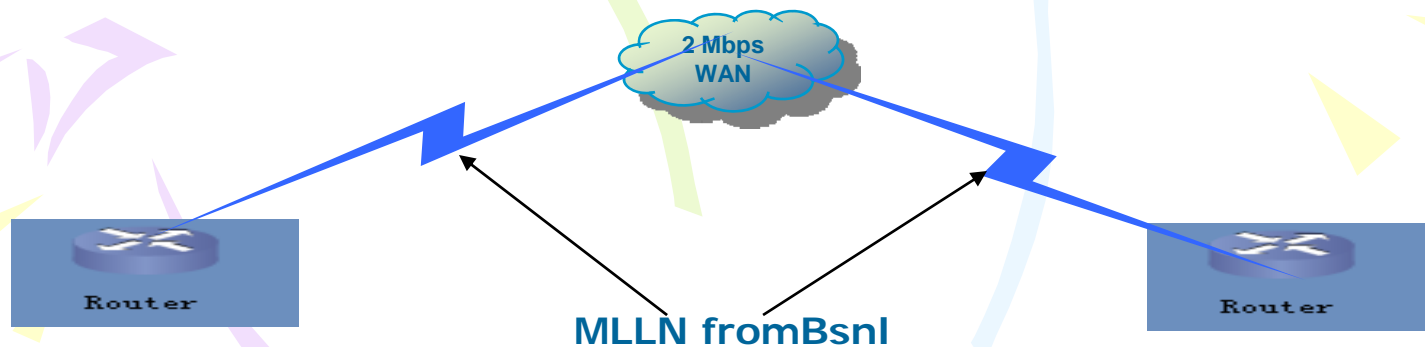
- The IP based network design would primarily be used for “Data Transfer” application between the 2 locations.
- Bandwidth Requirement of the customer for the application is 2 Mbps.
- The customer doesn't require optional Back up connectivity.
- The customer requires 60 nodes and 2 servers to be connected in the locations.
- The customer requires passive components for the LAN connectivity.
- The performance level required for the application would be 100Mbps.
- The connectivity speed for the server is 100Mbps speed.
- The WAN network needs to be IP Based.
- Customer requires provision for connecting additional nodes in future

Summary of ACS solution:

ACS recommended IP based interconnectivity solutions, which could be used for data transfer applications between two locations.

At both the location, ACS recommended to opt for Router with 1 # High speed sync port of 2Mbps speed, providing high-speed connectivity to the other location.

Network layout diagram
for the customer :





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Details of the solution offered:

For WAN connectivity at each of the two locations, ACS recommended Router with 1 # High speed sync port, 1# 10/100 port and 1 voice socket which could be used for effective "Data transfer application"

The router has fixed Serial Interface Sync speeds up to 2 Mbps and with this port, both the locations are connected.

The leased line connectivity is provided by Managed Leased Line Network (MLLN) system provides 'managed' leased line connectivity. Bandwidth of a leased line on MLLN varies between 64 Kbps and Nx64 kbps up to a maximum of 2 Mbps.

For passive connectivity, ACS recommended End –to- End Enhanced Cat 6 cabling solutions, which connects the existing switches.



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Highlights of the solution:

❑ **High Performance :**

The routers offers RSVP, IGMP, IP precedence, Multicasting routing, DiffServ, Committed Access Rate, Queuing strategies (like FIFO, PQ, WFQ) on the same software platform, thus providing complete QoS functions.

The Routers support WAN optimization features such as dial-on-demand routing (DDR), bandwidth-on-demand (BOD), compression, filtering and Spoofing to reduce WAN costs.

❑ **Comprehensive Management:**

With the availability of Master Plan software in The routers, the entire network can be managed. This software also provides integration with most popular/widely used management software likes HP Open View, Cisco Works etc.

The routers support SNMP. Hence, they can be managed from any industry standard SNMP software.



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Highlights of the solution---

❑ **Network Security:**

The routers support IPSec and multiple protocols (such as L2TP and GRE) with the availability of the IPSEC-IOS and employs hardware encryption to guarantee comprehensive network security service as well as network performance.

❑ **Interoperability:**

The routers support Industry standard LAN/WAN Protocols such as Default Gateway, Static Route, RIP V1/V2, OSPF, BGP, DDR, IGRP etc, thereby ensuring interoperability with other vendor products. The routers support standard compatibility for flawless interoperability.

Its modular design supports various interfaces that guarantee easy upgradeability and scalability. Its feature-rich routing makes The routers versatile and an effective platform for any routing connectivity. The routers support a robust Command Line Interface that complies with the defacto industry standard, saving potential huge training costs



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