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An ISO 9001 : 2000
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WAN solution for inter-branch connectivity

A medium business enterprise

Requirement :

The customer wanted to establish WAN connectivity between the Central Location and 10 remote locations spread across the country.

The customer wanted the leased line based network design with ISDN backup primarily to be used for implementing the Oracle Application.

The customer wanted 64Kbps speed bandwidth for the leased line which can be upgraded to 2Mbps at future.

The customer wanted the network WAN Devices to be SNMP managed.

The customer wanted provision for future scalability



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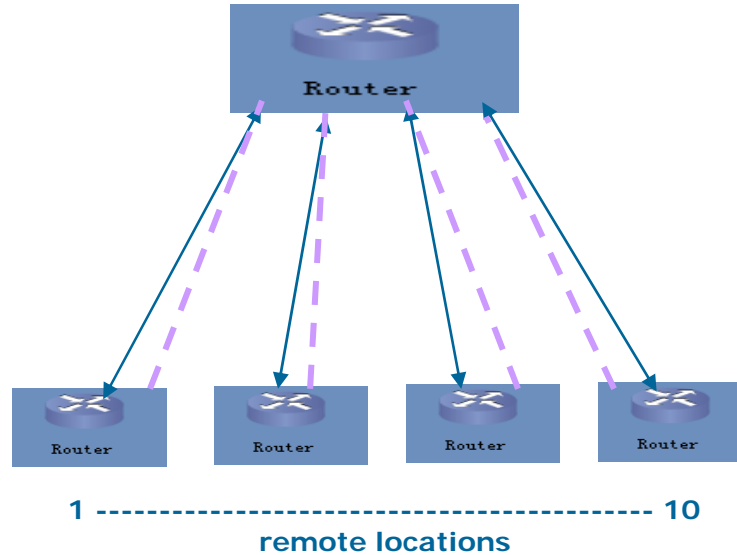
Summary of ACS solution:

ACS recommended the most cost effective WAN connectivity solution with auto ISDN back-up for the customer.

The solution is achieved by providing high-end router at the central location that is capable of catering all the 10 remote locations using appropriate modules.

ACS recommended the WAN solution for achieving 100% data transfer without any interruption. Also the recommended setup was equipped for additional remote locations in future

Network layout diagram for the customer :



Details of the solution:

Central Location:

At the central location, ACS recommended one Modular Router with 2 # 10/100/1000T ports shared with 2 # 1000X GBIC ports, 4NM slots.

These enterprise-level modular multifunctional security routers with high port-density, high-reliability and high-performance, can serve as a security access platform of multiple services, such as data, video and voice.

This router is ideally suited for data aggregation across all vertical segments. This enables router to provide great scalability and flexibility supports the software engine control cards with Giga Ethernet ports.

The software engine which runs on this router provides users with powerful functions, provides backup solutions based on backup center and VBRP & VRRP, rich QoS and network security features including MPLS, support VoIP, SNA/DLSw and IP multicast protocol, and at the same time providing high performance/price ratio.



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The Modular Router is populated as follows:

- 3 nos. -- Each module has 4 ports and the total of 12 ports could be used for providing Leased Line connectivity to 10 remote locations at 64 Kbps speed.
- 1 no. -- This module is used for ISDN Back-up connectivity.
- Remaining 19 free channels in the PRI module can be used for the future remote connectivity.

Remote Locations:

- At each of the remote locations, ACS recommended Branch office Modular Router with 2#10/100 port, 1 # fixed high-speed synchronous/Asynchronous serial interface, 1 WAN Slot for WAN module, and 1 # dedicated VoIP Slot.
- This Modular Integrated Security Routers can provide SMB enterprises and branch offices of large enterprises with a high price performance solution so as to meet their requirements of interoperability and deliver concurrent services of voice, video and data at optimal throughputs.
- These routers have fixed synchronous/Async port that could be used for the leased line connection.

This router was populated with:

- One 1-Port ISDN S/T WAN Interface Module, so as to connect to the ISDN connectivity from the central locations



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Highlights of the solution:

Scalability :

- Those remote locations that are currently connected at a dedicated bandwidth of 64 Kbps could be upgraded up to 2 Mbps in future.
- Free port in the Central Router and free channels in PRI module can be used in future without disturbing the existing setup.

High Performance :

- DX-3745 router tightly integrates the high-performance communication processor and software to deliver 400Kpps throughput, thereby offering the best price-performance in its category.

Security and Reliability :

- DX-3745 router employs hardware encryption and DX-1821 supports IPsec and multiple protocols (such as L2TP and GRE) and to guarantee comprehensive network security service as well as network performance.



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