

# New Bank in Laos

## WAN connectivity

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### IN SUMMARY

- Bank looked for a solution to reduce their data transmission cost and increase traffic rate.
- Netsis team is tasked to implement, enhanced and maximise their WAN introducing Expand Networks solution.
- The solution allows over 100% acceleration of transactional data with the added security by encrypting their transactional data
- Bank has insight into the WAN traffic which enables better monitoring and management requirements.

### TECHNICAL OVERVIEW

- Fully optimised bandwidth of branch office links
- Reduced operating cost
- Enhanced security of transactional traffic
- Allows proactive monitoring and management of traffic

### The Result

The WAN compressors have allowed the traffic on the leased lines to increase by more than 100% while still retaining the original subscribed line speed from the Telco. Additional QOS rules are applied onto these circuits, allowing mission critical banking transactions traffic to pass through without delay while sharing the same line to transmit LAN data. Throughout these transmissions, security on the leased line is maintained without compromise by encrypting transactional traffic. The added WAN compressors also allowed the IT staff to monitor the leased circuits to study for any abnormal traffic and take immediate action to suppress any security breach.

### Client Background

Bank needs to expand their number of branches by three times by year 2009. The branches will be located outside of the capital which has limited connectivity due to country weak IT infrastructure.

### The Challenges

Bank's branches cover the whole of country with the HQ based in capital. New WAN network for banking transactions must fulfil the following requirements:

- Secure
- Stable
- Ease of management and monitoring

Leased lines from the incumbent Telco is the only secure means of point to point connection. These banking transactions are to be in real-time using only 64kbps leased circuits. In addition, the office LAN traffic are also expect to utilize the same pipe and still enjoy the following:

- Secure separation of LAN and transaction data;
- Varying QOS for transaction data and LAN data;
- Maximise on the point to point leased circuits without additional bandwidth increment;
- Maintain or enhance current level of monitoring and control over traffic management.

### The Solution

Netsis team uses WAN compressors from Expand Networks which were sized and deployed to all the branches along with the HQ. By putting these compressors in-line to the transaction traffic, the leased circuits' full capacity was exploited. With an additional firewall to the front of the WAN compressor, the transaction traffic is further encrypted and mixed with the LAN traffic to be transmitted over the WAN compressed leased line. This encryption of the transaction traffic further enhances on the security of the whole network.