

Sangfor WANO

Bringing You Outstanding Enhanced Performance with
Sangfor WANO on MPLS Network



www.sangfor.com





Challenges for MPLS

MPLS allows for shared network resources with private routing for customers' data. Due to the benefits of MPLS's scalability, high efficiency and better end-user experience, many companies have chosen MPLS to build their private intranet network.

Unfortunately, using MPLS alone for connectivity is not the best option available, as demonstrated through investigating several pain-points associated with this solution:

► High Cost

The cost of MPLS is plainly a very large part of enterprise IT cost. MPLS price differs depending on region and compared with an internet link, MPLS is undoubtedly prohibitively expensive.

► Limited Bandwidth

MPLS bandwidth is often limited. With business growth, more apps are added in the datacenter and more users in branches, bottlenecking bandwidth, creating network congestion and causing poor end-user experience and complaints.

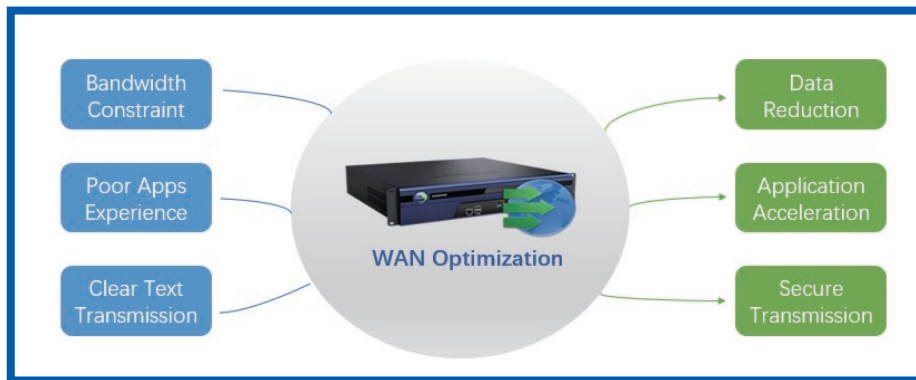
► Low Productivity

High cost and limited bandwidth make bandwidth a scarce and valuable resource. Ideally bandwidth is allocated for core business applications, but Filesharing and FTP may consume a majority of the bandwidth, affecting OA and ERP systems and in some scenarios, HQ and branch office internet access, when bandwidth is occupied by non-business critical applications.

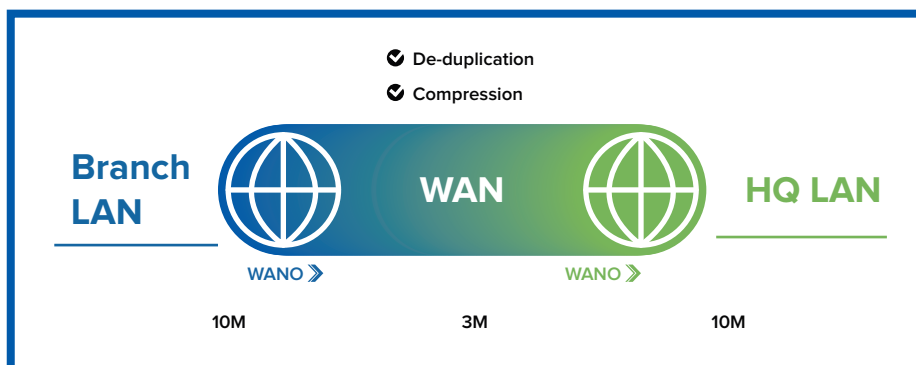
► Insecure Transmission

MPLS doesn't normally offer any encryption services. If configuration flaws exist somewhere in the provider's network or invasive devices controlled by hackers, the data will be exposed.

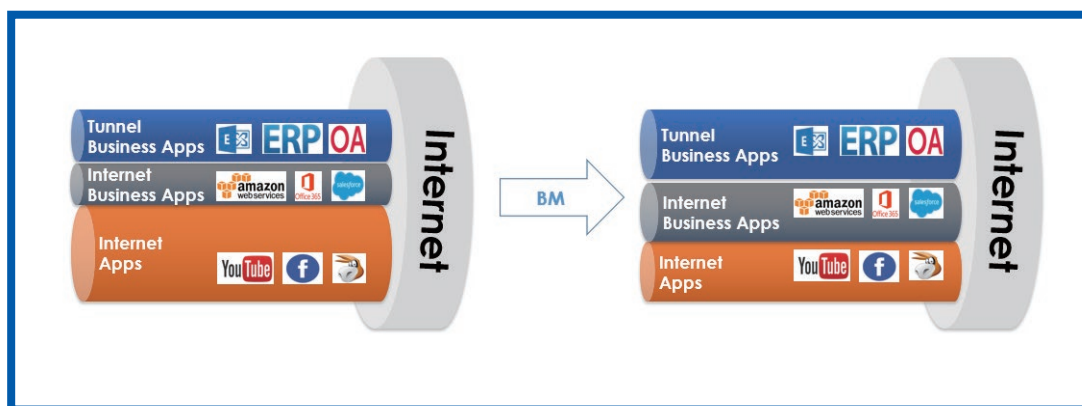
Sangfor WANO Solution



✓ Data de-duplication and compression enhance MPLS link throughput, greatly reducing bandwidth cost.



✓ Granular bandwidth management controls both business and internet Apps, guaranteeing core business traffic and limiting non-work-related activities to increase bandwidth productivity.



- ✓ Transparent deployment without any original network changes and 256-bit data encryption VPN over the MPLS network ensures data transmission security.
- ✓ Traffic reports allow IT managers know their network more intimately and helps them make more informed decisions.

Core Values

- More than 70% average traffic reduction and MPLS cost reduction of 50%.
- Speed of core business applications is improved by 3-10 times and user work efficiency improves significantly
- Secure transmissions enhance data security.



Background

Bank Simpanan Nasional (National Saving Bank) is a government owned bank in Malaysia. It has more than 5,100 employees, 382 branches and 621 automatic teller machine (ATM) nationwide.

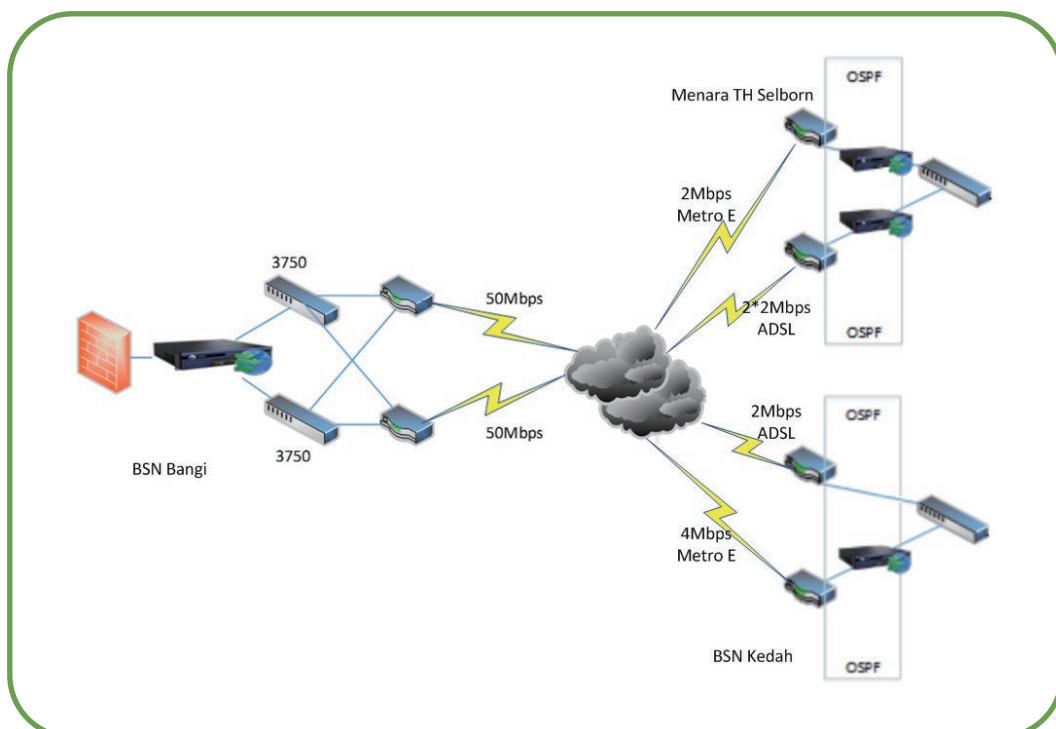
All critical business application traffic such as Exchange, CIFS, Oracle, SQL and Polycom (video conference) go through the data center located in Bangi.

With hundreds of branch offices and thousands of employees, BSN was facing an important network speed issue due to the limited bandwidth available at the data center and in the branch offices. This impacted the productivity of employees who experienced poor user experience when exchanging data through the data center. Many users were also consuming the bandwidth for non-work related activities such as internet browsing and watching online videos.

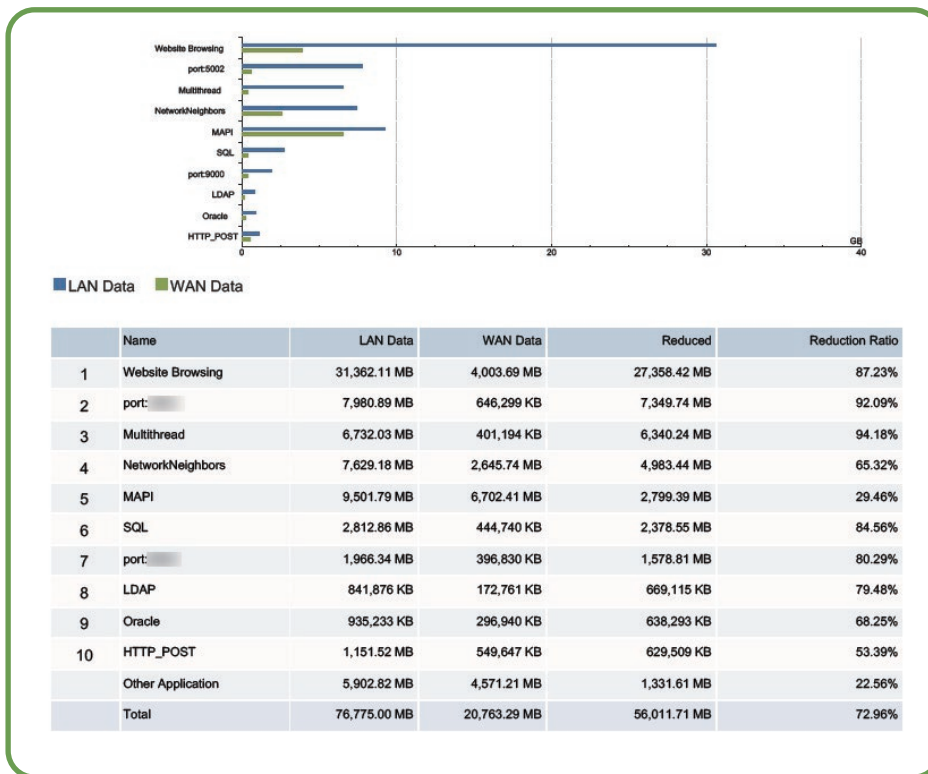
BSN also required a significant amount of video conferencing and commonly faced lags and freezes due to lack of bandwidth management, seriously affecting internal staff and customer meetings.

Sangfor Solution

WANO was deployed in bridge mode for data center and branch offices. Most branch offices have limited bandwidth of 2 to 4Mbps of MPLS line, backed with an ADSL line. All acceleration features were turned on to optimize all detected traffic. Since BSN also uses a lot of video conferencing, WANO was also configured to ensure at least 50% of traffic priority for video conferencing (especially for Polycom). Meetings between the branch offices are now smooth and clear. With WANO in place, the number of complaints from branch offices regarding slow connection was reduced significantly.



Sangfor WANO reduced BSN critical business applications traffic up to 72.96% ! Thanks to the increased speed of critical business applications, overall user experience has greatly improved and work efficiency increased at the same time.



Notable Customers



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