

Sangfor Hybrid WAN SD-WAN Solution



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Sangfor SD-WAN Smart Hybrid WAN Solution

1. Is Your Legacy WAN Working for You?

Single WAN Link

- WAN link down = business downtime
- Bandwidth limitations

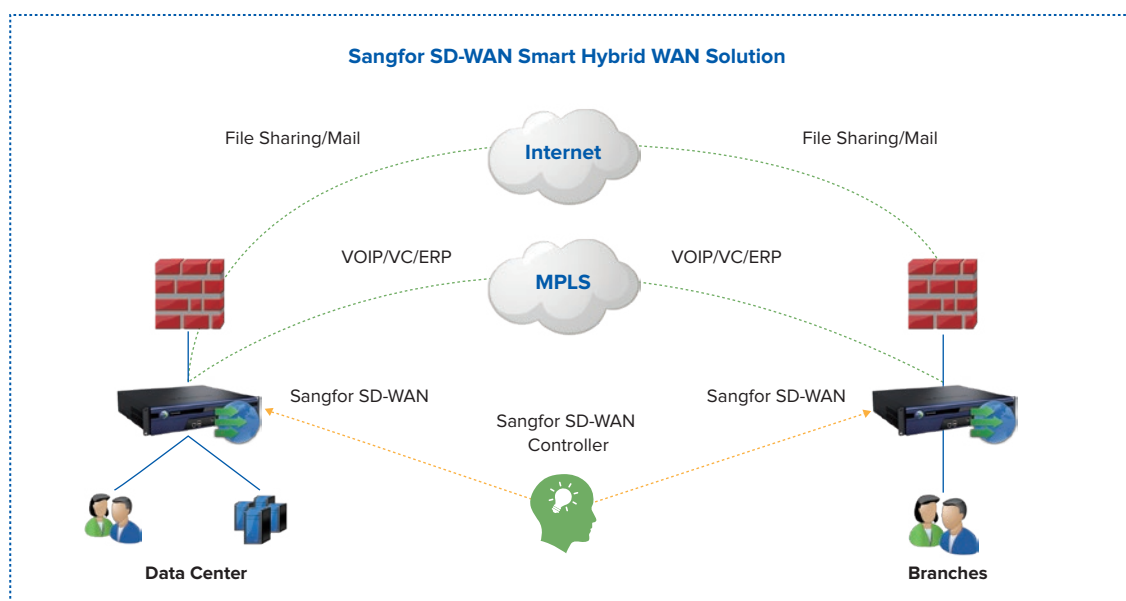
Single Type WAN

- Internet VPN: unstable and poor quality
- MPLS/Metro-E = Expensive

Hybrid WAN

- Manual fail-over
- Low utilization

2. Sangfor SD-WAN Smart Hybrid WAN Solution



3. Core Technologies

• Auto VPN

Automatically build VPN tunnels over WAN links, quickly solving connectivity and data transmission security issues.

• Automatic Fail-Over

Automatic link detection based on link QoE (Packet loss, Latency, Jitter). Supports automatic traffic fail-over without user perception.

• Dynamic Path Selection

Critical apps always run in the best quality link to guarantee user application experience, such as VOIP/VC.

• VPN Tunnel Bonding

Bonding all VPN tunnels running in multiple WAN links as a resource pool, maximizing the usage of all WAN link bandwidth.

4. Solution Values

- **Improve business reliability**
Multiple WAN links redundancy

- **Less WAN investment, more bandwidth**
Internet replace part of MPLS

- **Guarantee core business user experience**
VOIP/VC is clearer

- **Improve WAN utilization**

5. Advanced Options



Full optimization



All-around security



Embedded 3G/4G

Sangfor SD-WAN Smart Hybrid WAN Case

02



NISSAN has more than 1,000 dealerships and service centers in China, bearing the primary responsibility for sales and service. Nissan is a name people know and trust. Until recently, each Nissan service center had their own file servers storing customer and vehicle information and the center managers were required to regularly participate in online meetings via VIOP. Customers were also provided with an internet connection while visiting the center in an effort to provide better and more comfortable service.

1. Challenges

- Poor VOIP quality negatively affected the daily tasks required of managers
- Customer internet access was unregulated, such as porn video, fishing website
- File servers up to internal and external threat
- Lacked local IT staff able to manage network devices and servers

2. Sangfor SD-WAN Solution

- Each dealership and service center deployed 2 internet broadband from 2 ISP + aBOS (vNGAF + file server virtual machine).
- Deployed a Sangfor controller in data center.

3. Solution Values

- **Business Continuity**

VOIP traffic dynamically allocated to the best quality link for better quality transmission. If a link is down, traffic automatically and imperceptibly fails-over to a new link.

- **Security & Regulations**

vNGAF sets 3 independent zones for servers, staff and customers, protecting the server and user security while intercepting illegal traffic.

- **Cost**

vNGAF + virtual machine all-in-one solution delivery with centralized and simplified operation maintenance and management, reduces OPEX costs.