

## Sangfor WANO VSAT Solution

### Who are Using VSAT Link?

Due to fact that physical link can hardly cover all area, some customers have no choice but to choose VSAT link connection between remote sites and HQ; for example, small island, remote work station, ship, car, etc. These customers come from various industries like ISP, bank, government, plantation, weather station, marine, mining and so on.



### Problems with VSAT Link

```
Reply from 119.75.217.56: bytes=32 time=1399ms TTL=55
Reply from 119.75.217.56: bytes=32 time=782ms TTL=55
Reply from 119.75.217.56: bytes=32 time=1406ms TTL=55
Reply from 119.75.217.56: bytes=32 time=800ms TTL=55
Request timed out.
Reply from 119.75.217.56: bytes=32 time=1277ms TTL=55
Reply from 119.75.217.56: bytes=32 time=784ms TTL=55
```



High Latency/Packets Loss

Limited Bandwidth



Extremely High Cost

*Your Future-Proof IT Enabler*

**Sangfor Technologies**

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## Sangfor WANO Solution

### Link Quality Optimization:

- ✓ Use HTP technology to re-transmit lost packets, thus reduce the packets loss rate and solve issues like core business delay and video conference lag.
- ✓ Use high-speed TCP protocol instead of common TCP protocol to improve TCP sliding window mechanism, increase transmission efficiency.

### Application Acceleration:

- ✓ Byte Cache - More efficient byte level cache algorithm to reduce duplicate data.
- ✓ Compression - 3 algorithms (GZIP/LZO/Quick LZ) for intelligent selection.
- ✓ Application Proxy - Reduce connections in WAN.

### Bandwidth Management:

- ✓ Up to 2900+ applications identification rules can help customer guarantee core application traffic, limit non-productivity applications to increase core business output.
- ✓ Real-time monitoring of application bandwidth utilization provides report to help save bandwidth.

## Key Values



**Improved Efficiency** -- User will enjoy an excellence application experience and more traffic utilized for business activities.



**Increased Productivity** -- VSAT link bandwidth will be enhanced, more data can be transmitted in WAN, user can be more productive.



**Visibility** -- IT managers will have more visibility of their network status and can make reasonable decisions accordingly.



**Cost Saving** -- Avoid bandwidth upgrade or use WANO + low bandwidth solution instead of high bandwidth solution will save a lot of money, and customer can use the money to focus on core businesses.

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## User Story

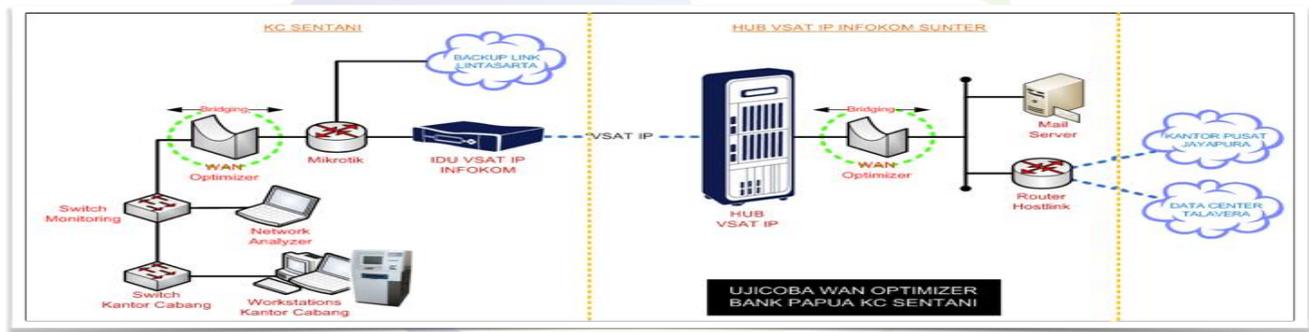


Tradewinds Plantation Berhad's operation of plantation is one of the largest in Malaysia.

Customer use WANO to accelerate traffic from island/remote plantation sites to HQ

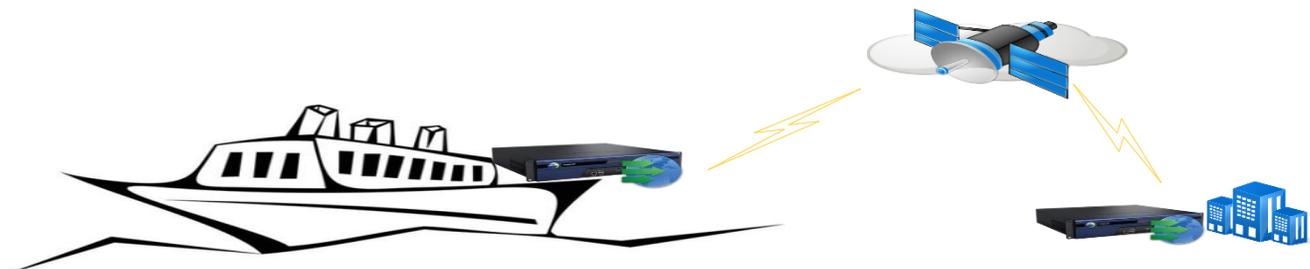


Bank PAPUA is a very famous regional development bank. Founded in 1966, it has many branches and ATM machine over Indonesia. They have slow mail/FTP/bank portal issues via VSAT network.



Star Cruises is a wholly-owned subsidiary of Genting Hong Kong, a leading global leisure, entertainment and hospitality corporation, a pioneer in the Asia Pacific cruise industry.

Star cruises provides Wi-Fi service for tourists in cruise, but they face bandwidth limitation and slow application issues via VSAT link.



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