

Overiew



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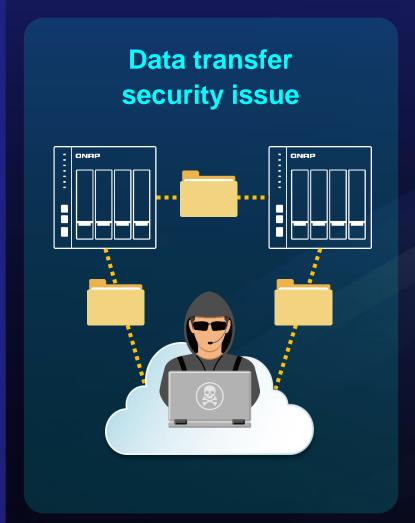
Benefits of building private network



Protect your data and online behavior



From the moment you are exposed to the internet world, hackers are around you!





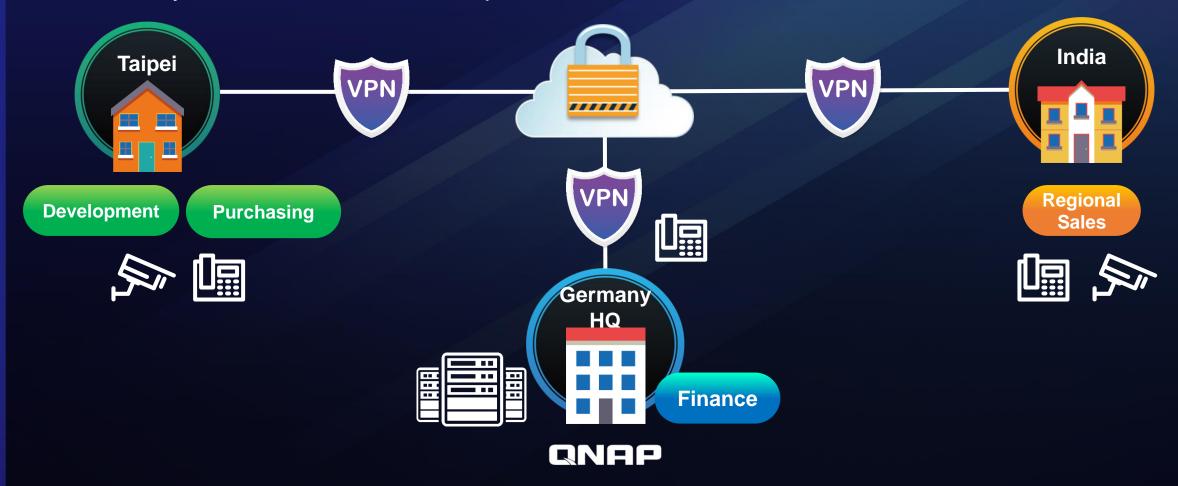




A private network lets your data go through secret tunnel!

QuWAN

- Access to network via VPN tunnel is like putting a package into an encrypted box and sending it to others in a secret tunnel. No one can see the contents of the box and cannot decrypt it.
- VPN lets you use the Internet like a private network.



Problems of building private network in the traditional way



Complex setting values for site to site VPN

QuWAN

- Do not understand what the setting value means.
- Not sure if the settings are correct.





Operation Mode

LAN IP

Inbound and Outbound SPI

Encryption

Group

Subnet Mask

Remote Secure Gateway

WAN IP Address

PFS

Local IP Address

Key Lifetime

Local Secure Gateway

Key Management

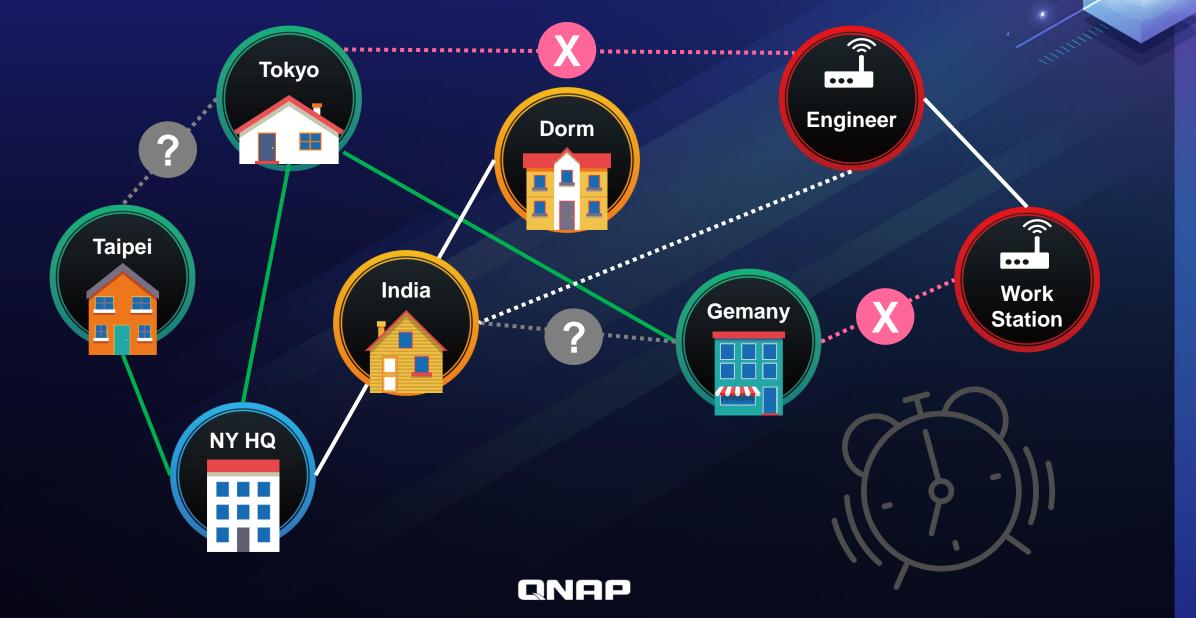
Pre-Shared Key





It is time consuming for setting up VPN for multiple sites







QNAP SD-WAN
(QuWAN)
helps you build private
network quickly



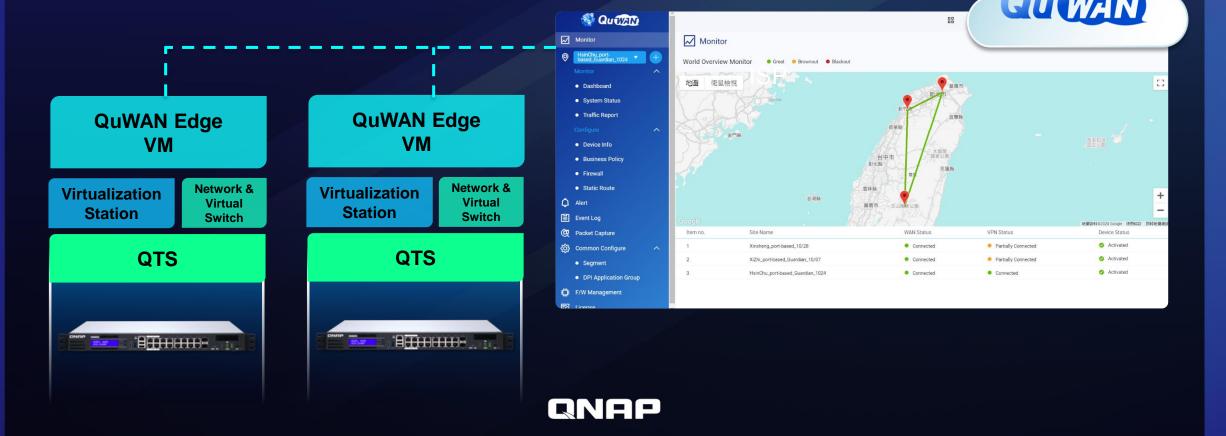
QNAP SD-WAN (QuWAN) Architecture



QuWAN consists of two components

- QuWAN Orchestrator: The central managing and monitoring platform Webpage: quwan.qnap.com Use QID to log-in
- QuWAN Edge: QuWAN virtual machine on edge device.

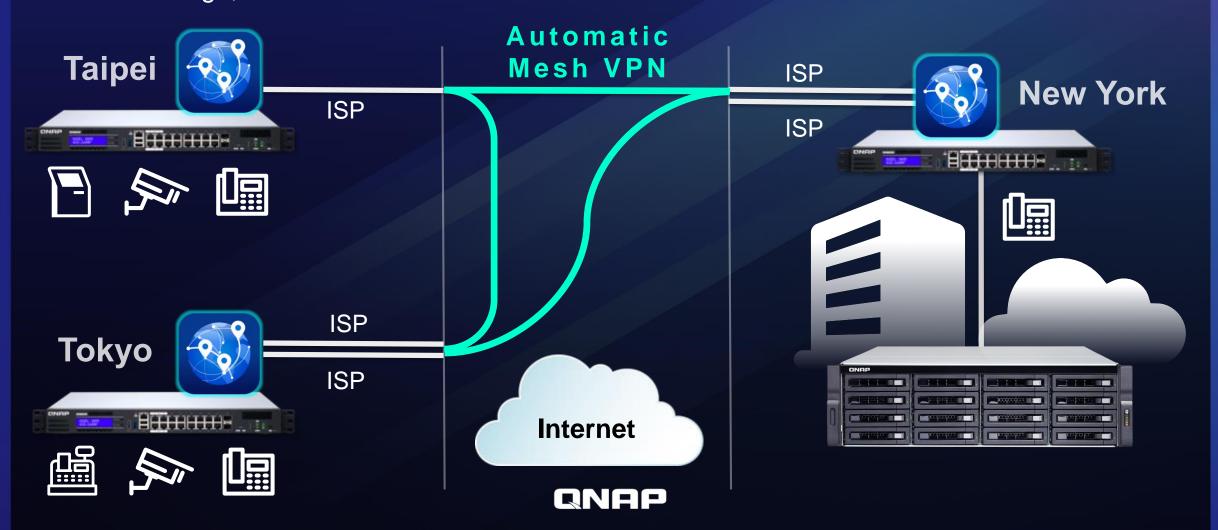
 QuWAN can be installed automatically using VM Installer Application from App Center



Build private network on Guardian QGD-1600P

QuWAN

- No complex settings. Just enable VPN service mesh for all sites automatically in several clicks.
- Protect image, voice or confidential data transmission.





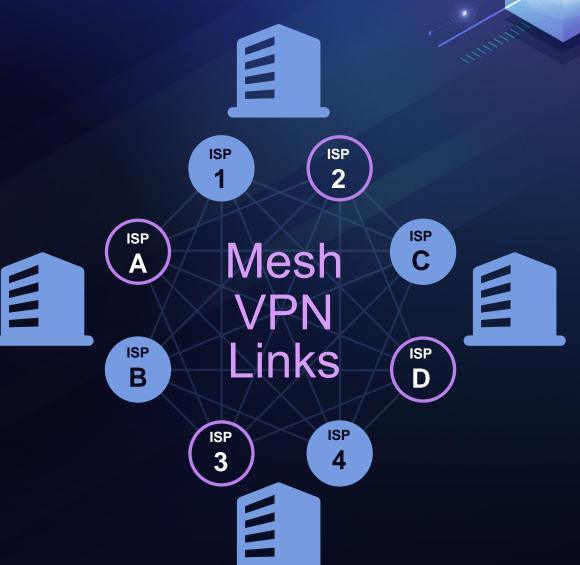
Advantages of using QNAP SD-WAN (QuWAN)



Build Mesh VPN Automatically



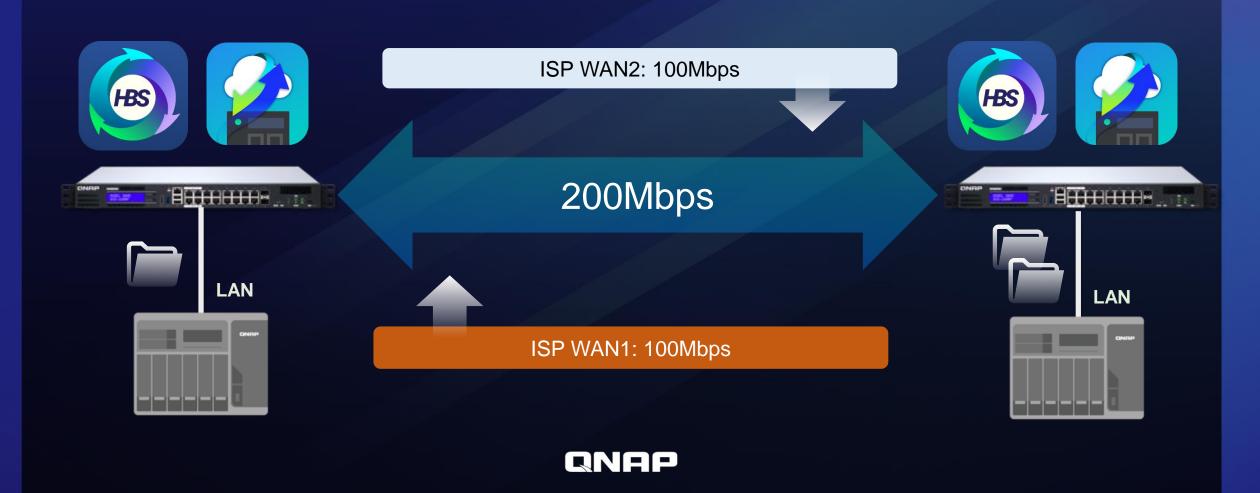
- Use internet as private network.
- Encrypt your data and let it go through VPN tunnels.
- Protect your business's online behavior, confidential files, voice and video transmission!



WAN aggregation for fast data transmission

QuWAN

- Adopt bandwidth fusion technology to accelerate network transmission.
- Faster transmission for large files remote backup, remotely mounted files, or data analysis.



WAN High Availability



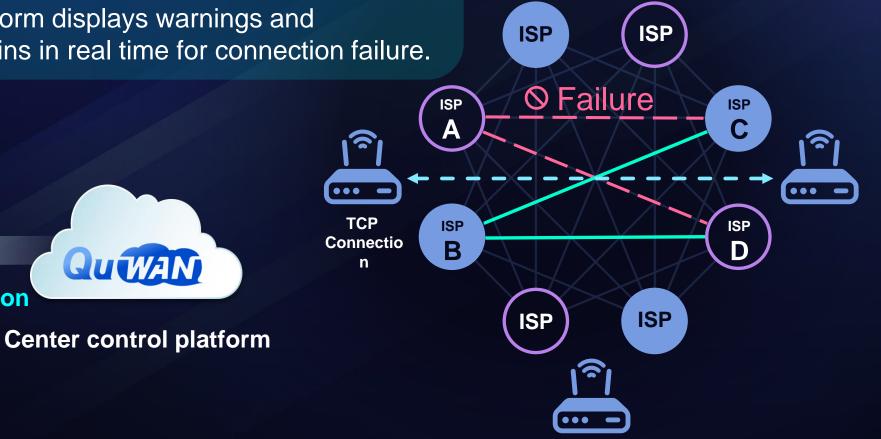
- When one of the WAN links goes down, the TCP connection is still alive.
- No down time for multi-sites collaboration works.

Notification

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HQ IT Admin

Central control platform displays warnings and notifications to admins in real time for connection failure.



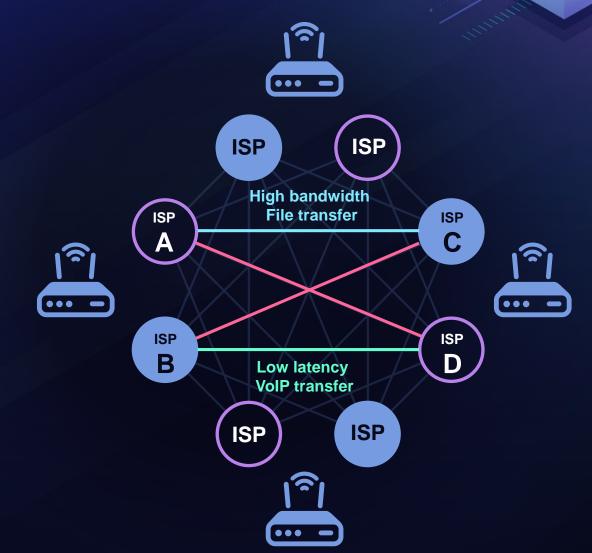


Set business policy for network usage



Let important file or voice transmission go through the most suitable WAN channel!

- Intelligent bandwidth management (QoS) which prioritized bandwidth usage.
- Monitor the packet delay and packet loss of each WAN.

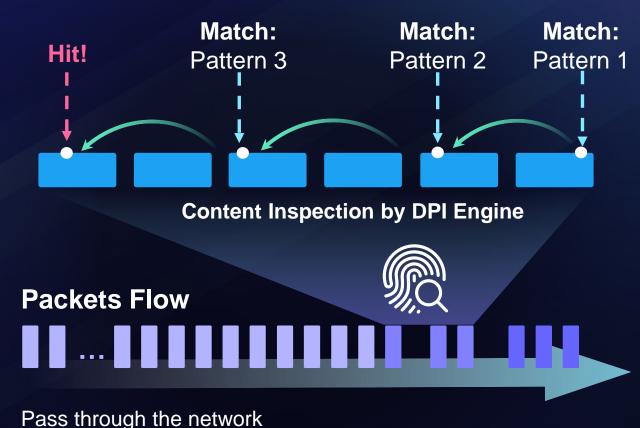




Best gateway for protecting your data



- Use deep packet inspection technology.
- Provide L7 firewall to Identify and control network services according to the characteristics of the application layer.
- Set specific applications as blacklist to protect corporate network security.

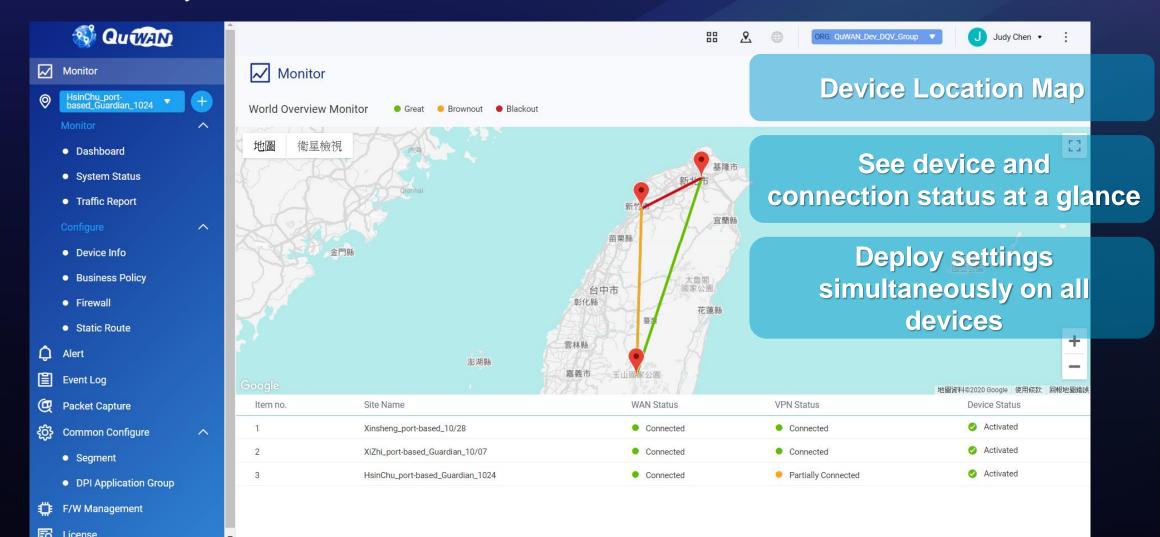




Cloud platform central management and settings

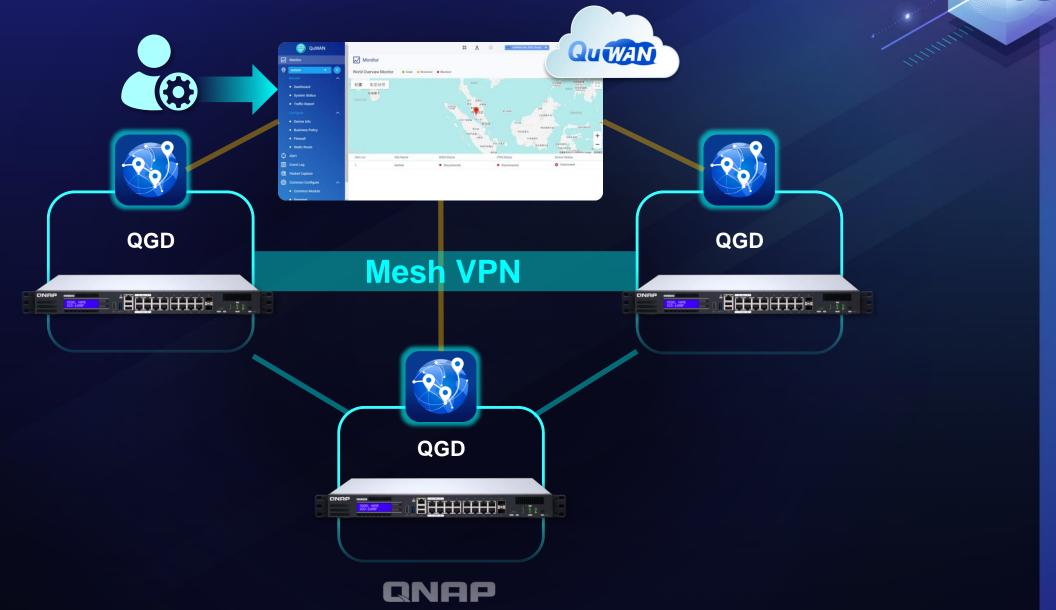
QuWAN

Graphical user interface, easy to set, clear status and time saving from setting device one by one.



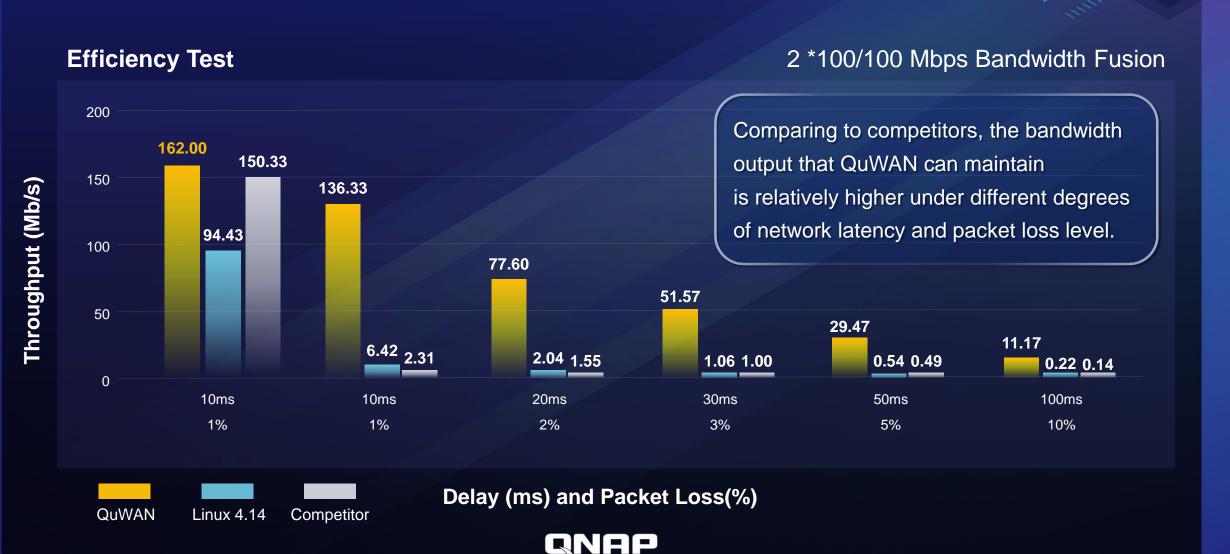
As long as the QuWAN Edges are connected to the cloud platform, edges can automatically form a mesh private network





QuWAN maintains relatively higher throughput In an unstable network environment







Enable QuWAN with no burden on Guardian QGD-1600P

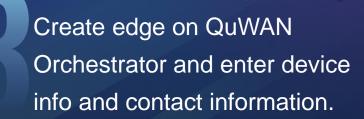


QuWAN Activation on Guardian



Install VM Installer on App Center (*QTS must be 4.4.1 or above).

Select QuWAN to install as virtual machine.











QuWAN Activation on Guardian



Go to Device Info on QuWAN Orchestraotr to set your WAN/LAN parameters.

Send Activation Email and paste the activation URL on VM Installer.

Select the physical interface card corresponding to QuWAN WAN / LAN.

ISP WAN2

ISP WAN1

LAN IP



QGD Port 5 = QuWAN LAN 1

QGD Port 4 = QuWAN WAN 2

QGD Port 3 = QuWAN WAN1







Application Scenario



Scenario 1: Activate QuWAN as Gateway

QuWAN

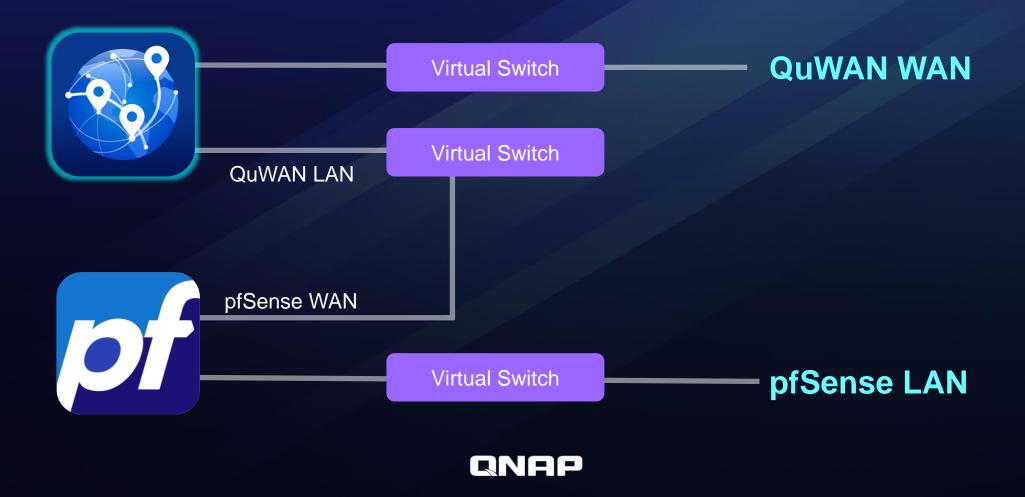
By launching QuWAN on the Smart Edge PoE switch which upgraded it to become SD-WAN edge that can automatically form VPN mesh network.



Scenario 2: Use QuWAN with pfSense



A double-layer firewall system combined with pfSense intrusion detection and prevention system at the same time! Make your network data more secure!



Demo





Beta Test Plan



QuWAN Launch



Beta Test Plan

Duration: From 2020/01/17 to 2020/05/31 First support on Guardian QGD-1600P



One Year Trial Program

QNAP Device Exclusive Program Duration: Starting from 2020/06/01

QuWAN will be support on NAS X51, X53, X63, X71,X72, X73, X77, X80 X82, X83, X85, X88, X89

Coming Soon!





