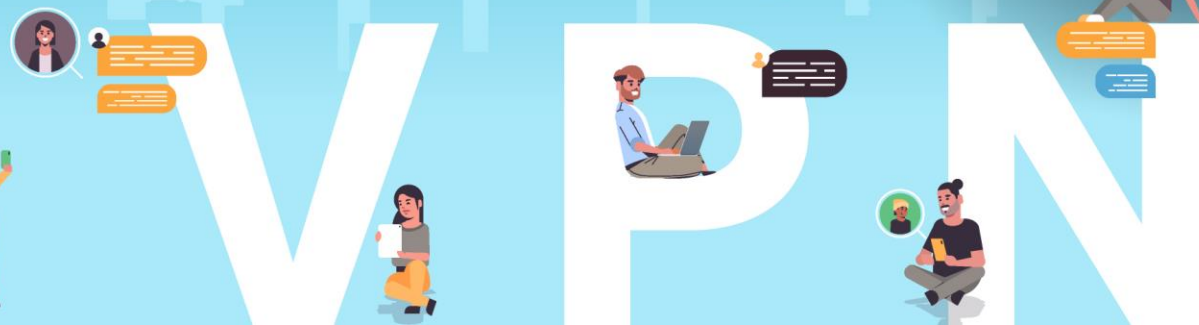


QNAP

Centralized Network Management

QuWAN 2.3

Enhance multi-site VPN on QNAP routers and resilient
Zero-Touch Provisioning on mobile devices





Agenda

- What changes does QuWAN can bring for VPN?
- Feature introduction



**What changes
does QuWAN can
bring for VPN?**





Work from remote is getting used for current working model

BUSINESS | A Two-Year, 50-Million-Person Experiment in Changing How We Work

The last two years ushered in an unplanned experiment with a different way of working: Some 50 million Americans left their offices. Before the pandemic, in 2019, about 4 percent of employed people in the U.S. worked exclusively from home; by May 2020, that figure rose to 43 percent, according to Gallup. Of course, that means a majority of the work force continued working in person throughout the last two years. But among white-collar workers, the shift is stark: Before Covid just 6 percent worked exclusively from home, which by May 2020 rose to 65 percent.

“The only thing holding back flexible work arrangements was a failure of imagination,” said Joan Williams, director of the Center for WorkLife Law at the University of California, Hastings. “That failure was remedied in three weeks’ time in March 2020.”

Due to epidemic



Job characteristics



Field employees

Doing business even they are not in the office





How to secure the connection?





Who is going to manage VPN?

Usually it is not enough resource for SMB/SM to have an IT

Happy Company



Owner



Engineers



Sales



Accounting





It is a complicated job to setup VPN

Employees(Client)



VPN

Office(Server)



Enter server IP
Service port
PSK
...

Find the router IP address
Setup firewall/NAT rule
Setup authentication for client
Setup encryption for client
Check the routing
...



It becomes more complicated if there have multiple places need connected each other

WFH employees(Client)



Employee VPN

Enter server IP
Service port
PSK
...

Sub office(Server)



Find the router IP address
Setup firewall/NAT rule
Setup authentication for client
Setup encryption for client
Check the routing
...

Office VPN

Main office(Server)

Employee VPN



Employee VPN

Field employees(Client)



Sales(Client)



Enter server IP
Service port
PSK
...

Find the router IP address
Setup firewall/NAT rule
Setup authentication for client
Setup encryption for client
Check the routing
...

Enter server IP
Service port
PSK
...



Usually there are only two ways for owner

Owner



I need hire dedicate IT
for managing VPN

I need to learn
how to manage
VPN





QuWAN is designed for saving the owner of SMB to setup VPN



QuWAN



Lower cost



Faster setting



QuWAN can lower the cost to VPN setup for SMB

S2S VPN

Suppose we need to deployed 5 device for VPN connections



QuWAN

Once for FIVE!



It getting faster and easier to setup VPN!!

Owner





All the models relate to QuWAN support VPN setup/management from cloud

Great! I don't need setup a lot and don't need to decide which server I have to connect.



QVPN



QMiroPlus-201W



QHora-301W



QNAP NAS



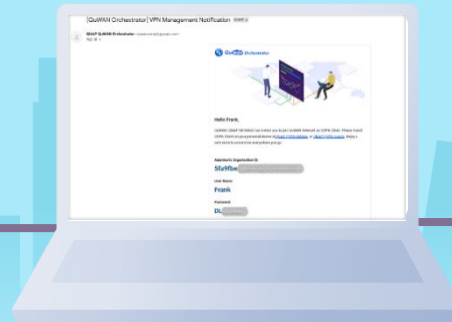
QuWAN

It is so easy for my employees to use VPN !!



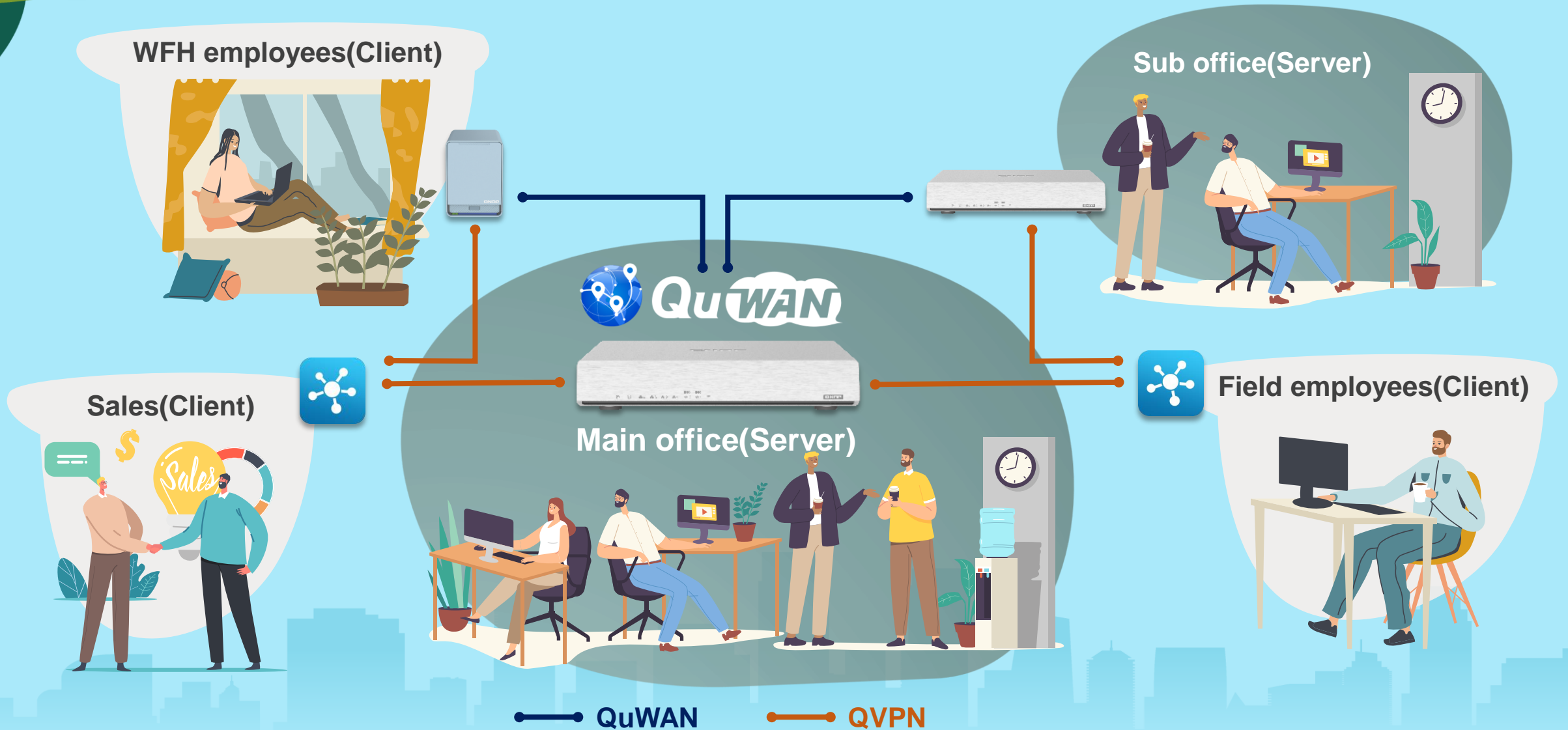
Owner

Hey, use this config



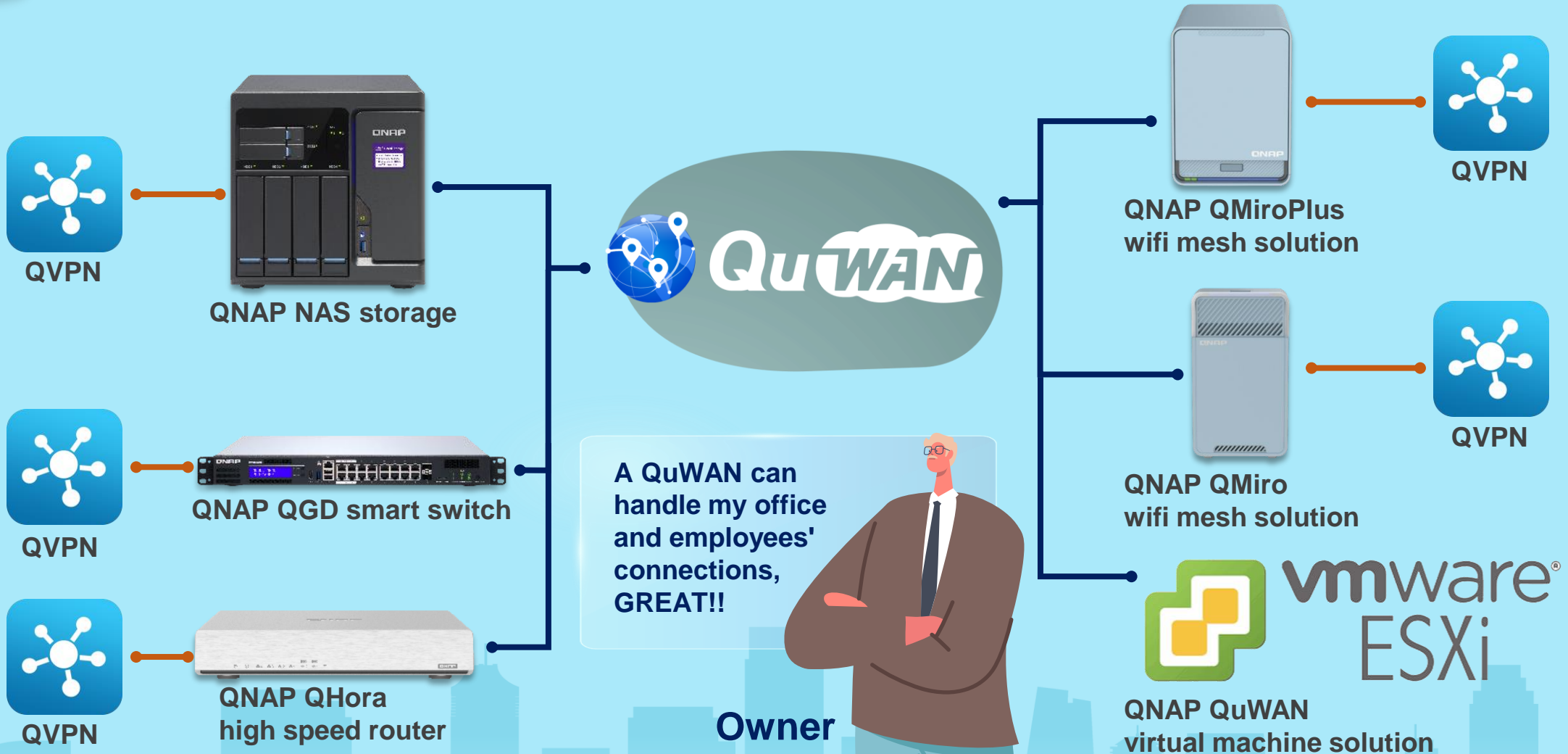


Central manage for the connection no matter in the office or out of office





QuWAN+QVPN becomes most platform flexible SD-WAN solution





The advantage of QVPN server on QuWAN



- Can centralized user account management
- Can setup multiple QVPN server at the same time
- Can manage QVPN server at the same time
- Can monitor client's connection info on cloud directly
- User don't need to remember a lot of IP address for server
- Auto health check to decide which server is suitable for QVPN client
- Keep manual options for user to choose which QVPN server they like to connected(on QVPN client)



QuWAN
is my IT!

Owner

Feature introduction





GUI introduction

QuWAN Orchestrator

- Overview
- QuWAN Device
- QuWAN Topology
- VPN Server Settings**
 - QuWAN QBelt VPN Server
 - Privilege Settings
 - Online VPN Users
- System Notifications
- Event Logs
- Packet Capture
- Common Configuration
- Firmware Management
- License Subscriptions

Org: Adamtest | FrankLiao

VPN Server Settings / QuWAN QBelt VPN Server

[QuWAN QBelt VPN Server Quick Start](#)

Download the QVPN Device Client application
[Utilities](#) | [Mobile App](#)

Enable | Disable | Selected: 0 | Search

<input type="checkbox"/>	Hub ▲	Region ▼	VPN User IP Range	UDP Service Port	Maximum VPN Users ▼	DNS Servers	VPN Server Status ▼	Toggle Status ▼	Action
<input type="checkbox"/>	0813QTS	My global region	198.18.6.2~198.18.6.255	5533	25	198.18.6.1	✔ Toggle Status	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	0909	My global region	198.18.6.2~198.18.6.255	5533	25	198.18.6.1	✔ Toggle Status	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	syunKVM	123	198.18.6.2~198.18.6.255	5533	25	198.18.6.1	✘ Inactive	<input type="checkbox"/>	



Quick start introduction for QuWAN QVPN

Guiding user to know how to setup the QVPN server on QuWAN

VPN Server Settings / QuWAN QBelt VPN Server ⓘ

QuWAN QBelt VPN Server Quick Start

Enable Disable Selected: 0

Hub ▾ Region ▾ VPN User IP Range UDP Service Maximum VPN Users ▾

QuWAN QBelt VPN Server Quick Start

Step 1: Enable the VPN server and add a VPN user.

Once you enable the QuWAN QBelt VPN server, you can add VPN users to access the server.

- Username: Specify a username for the VPN user.
- Email address: Specify the email address of the VPN user.
- Accessible hubs: Select from multiple available QuWAN hubs that are configured as VPN servers. VPN users can only connect to the selected hubs. QNAP routers cannot function as VPN servers.
- Segment: Select a predefined segment belonging to the VPN user to apply the segmentation firewall rules. One segment can be shared between several VPN users.
- Multidevice connection: Enable to allow the VPN user access to the VPN server from multiple devices using the same account.

Next

QuWAN QBelt VPN Server Quick Start

Step 2: Configure the firewall settings

QuWAN Orchestrator provides two levels of firewall security. The device-level firewall automatically allows all incoming traffic and the segmentation firewall automatically denies all traffic to ensure security within different segments of the organization.

To allow VPN users remote access to internal resources within the organization as well as external web resources, ensure that both the device-level and segmentation firewall rules allow traffic. QNAP recommends creating a customized segment and creating firewall rules within a segment for VPN users to safeguard different segments in the organization. To configure device-level firewall settings, go to QuWAN Device, select your region and device, and then click Firewall. To configure segmentation firewall settings, go to Common Configuration > Segment, and then add or modify firewall rules.

Back Next

QuWAN QBelt VPN Server Quick Start

Step 3: Connect to the VPN server using QVPN Device Client

To access the VPN servers, users must download and install the QVPN Device Client application on their device. Users must configure the username, password, and organization information on the application to set up a VPN connection to a QuWAN hub.

[Utilities](#) [Mobile App](#)

Back Close



Setup QVPN server on QuWAN

Press Action for each QVPN server for editing the setting

VPN Server Settings / QuWAN QBelt VPN Server ⓘ

[QuWAN QBelt VPN Server Quick Start](#)

<input type="checkbox"/>	Hub	Region	Action
<input type="checkbox"/>	0813QTS	My global region	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
<input type="checkbox"/>	0909	My global region	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	syunkVM	123	<input type="checkbox"/> <input type="checkbox"/>

Configure "0813QTS" VPN Server Settings

Region: My global region

VPN User IP range: * 198 . 18 . 6 . 2

Subnet mask: * 255.255.255.0 (/24)

UDP service port: 5533 [Service Management](#)

Maximum VPN Users * 25

DNS servers: * 198.18.6.1 (DNS limitation: 3)

Download the QVPN Device Client application

	Toggle Status	Action
gle us	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
gle us	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
tive	<input type="checkbox"/>	<input type="checkbox"/>



Create QVPN QBelt user on QuWAN

Add QVPN QBelt user on the Privilege setting

VPN Server Settings / Privilege Settings

Add VPN User Send New Password Delete VPN User

<input type="checkbox"/>	Username ▲	Segment ▼	Accessible Hubs
<input type="checkbox"/>	0811	global	0813QTS
<input type="checkbox"/>	0817	global	0813QTS

Accessible Hubs	Segment
3 selected ▼ <input checked="" type="checkbox"/> All <input checked="" type="checkbox"/> syunKVM <input checked="" type="checkbox"/> 0909 <input checked="" type="checkbox"/> 0813QTS	global ▼

Add VPN User

Total VPN users:1

Username Email address: Accessible Hubs Segment Multidevice Connection

[+ Add a VPN User](#)

	<input type="text" value="Frank"/>	<input type="text" value="franktest@test.com"/>	3 selected ▼	global ▼	<input checked="" type="checkbox"/> Enabled
--	------------------------------------	---	--------------	----------	---



Managed QVPN QBelt client on QuWAN

VPN Server Settings / Privilege Settings

[Add VPN User](#) [Send New Password](#) [Delete VPN User](#) Selected: 1

<input type="checkbox"/>	Username	Segment	Accessible Hubs	Multidevice Connection	Action
<input type="checkbox"/>	Edisonhsu	global	0813QTS	✔ Enabled	
<input checked="" type="checkbox"/>	Frank	global	All hubs (syunkVM, 0909...	✔ Enabled	
<input type="checkbox"/>

Edit VPN User Settings

Editing the VPN user settings will terminate the current VPN connection between the VPN server and user. Inform the VPN user to connect to the server after applying the changes.

* Required field

VPN User Information

Username: Frank

Email address:

Segment *

QuWAN QBelt VPN Server Settings

Accessible Hubs *

Enable multidevice connection

[Save](#) [Cancel](#)

Managed QVPN QBelt user on the Privilege setting



QuWAN QVPN notification mail

Send out the user notification mail from QuWAN directly

[QuWAN Orchestrator] VPN Management Notification 收件匣 x



QNAP QuWAN Orchestrator <quwan-noreply@qnap.com>

寄給 我 ▾



Hello Frank,

QuWAN (QNAP SD-WAN) has invited you to join QuWAN Network as QVPN Client. Please install QVPN Client on your personal device at [QNAP QVPN Utilities](#), or [QNAP QVPN mobile](#). Enjoy a safe remote connection everywhere you go.

Adamtest's Organization ID:

5fa9fbe

User Name:

Frank

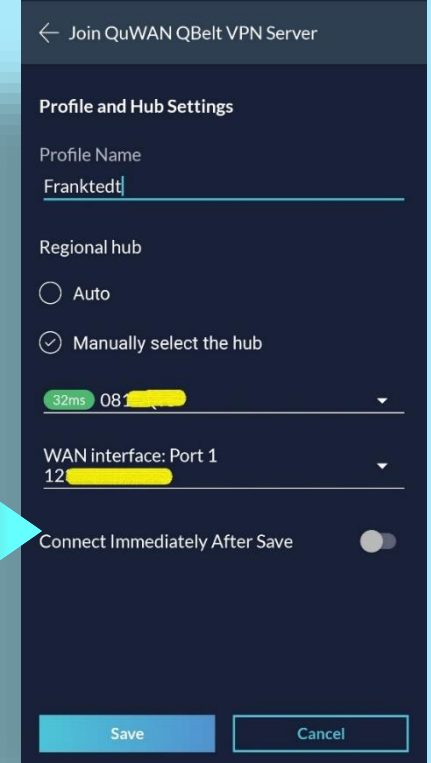
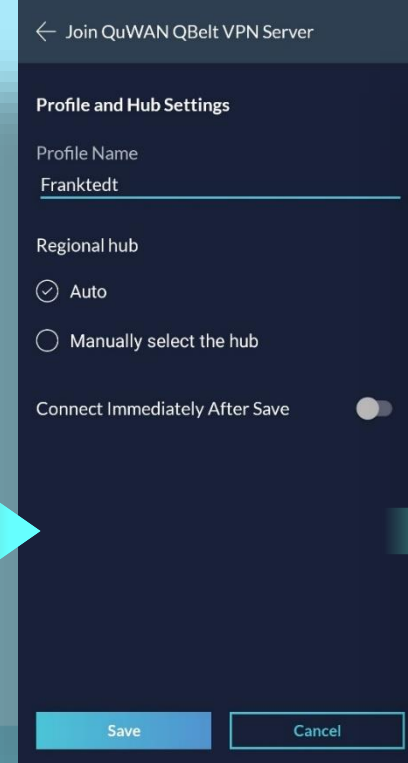
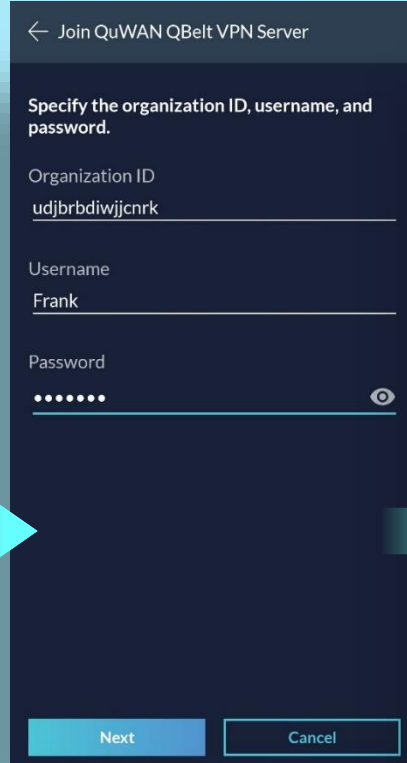
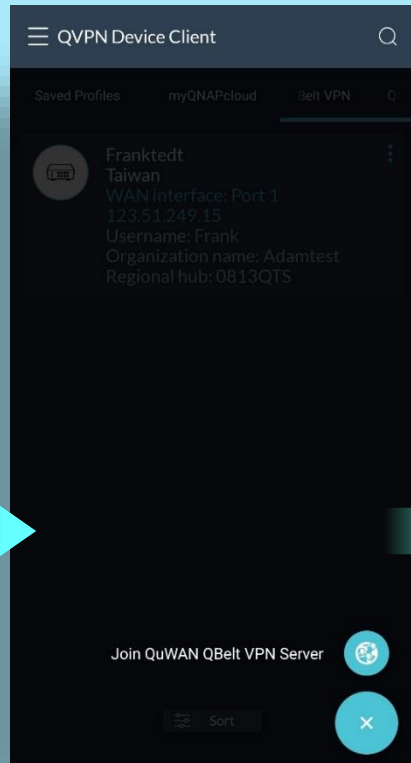
Password:

DL



Setup QBelt for QuWAN on the QVPN client

Copy and past the QBelt info on the notification email to QVPN client





QBelt on QuWAN online user info

Check QBelt connection info on QuWAN

Current VPN Connection

Connected to Franktedt

My Device | Franktedt

MAP | Apps

Google

Host/IP | Time Connected

Disconnect

Disconnect VPN Users

Are you sure you want to disconnect the selected VPN users?

Total VPN users: 1

1. Frank

Apply | Cancel

VPN Server Settings / Online VPN Users

Disconnect | Selected: 0 | Search

<input type="checkbox"/>	Login Date	Login time	Username	VPN User Device Name	Region	Hub	Source IP	VPN User IP	Action
<input type="checkbox"/>	2021/09/13	13:47:35	adam	My phone	My global region	test	1.2.3.4	198.18.6.2	
<input type="checkbox"/>	2021/09/13	13:58:01	Frank	My PC	My global region	Test01	2.6.7.8	198.18.6.5	

QNAP

QuWAN 2.3

is your best choice!

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