

# SecuExtender

## Zero Trust VPN Client

### Benefits

#### Never Trust and Always Verify

Businesses from small to large all need to get ready for the growing demands of an increasingly mobile workforce and distributed work site expansions. As to protect your businesses from inside out, you need the right VPN service to apply proper access control.

#### Four Perimeter Security Challenges, SecuExtender Can Help

- **BYOD Security Risks**

SecuExtender adapts Zero-Trust principle to help IT verify user's identity, enforcing admission control to increase security level.

- **Administrative Overhead**

Centralized provisioning from the cloud to reduce administrative overhead when managing tens or hundreds of SecuExtender endpoints.

- **Network Congestion**

Mitigate the bottleneck, increase productivity by throttling the traffic bounded for the office network.

- **VPN Client Flexibility**

Flexible VPN options, one license for multi-platforms and subscription-based for easier access to new features.

#### Same Security Across Networks

VPN management consolidates and ensures the same network control and security across multiple sites. We extend the working experience easily and securely, as if you were in the office with the safety of both two-factor authentication and tunnel protection. As to reinforce security for hybrid network, we elevate SecuExtender as the Zero-Trust agent, integrated always-on IPsec VPN, traffic shaping, IKEv2/EAP, supporting devices insight and more granular control over remote workplaces.



Easy-to-use configuration wizard and connection panel



Supports both Windows and macOS operating systems



Supports all connection types: dial-up, Ethernet, WiFi and 4G



Compatible with all ZyWALL series firewalls



Simple to deploy with remote VPN wizard

# IPSec VPN Client

## The new IPSec VPN Client subscription

The new time-based subscription\*<sup>1</sup> and perpetual licenses are available for IPSec VPN Client, enabling you to customize for your business needs. The IPSec VPN Client supports your remote workforce, gives you peace of mind from access anywhere outside the office. Whether you're in office or home office, it is a security-conscious VPN service, providing one of the best way to protect your privacy as you communicate over the Internet.



## Ultra-secure Access to the Office Network Anywhere

The IPSec VPN Client is designed with an easy 3-step configuration wizard to help employees create remote VPN connections quicker than ever. It also provides an easy scalability by storing a unique duplicable file of configuration and parameters. The VPN configurations and security elements including pre-shared key, certificates, IKEv2 can be saved on a USB disk in order to remove authentication information from the computer. Users can easily monitor their remote applications and data as if they were in the office.

### Secure remote access

- Ensure secure and reliable data transmission
- Support Two-factor Authentication (2FA) for strengthen protection\*<sup>2</sup>
- Added stronger key exchange (DH) group and algorithms

### Enhanced usability

- Windows and macOS operating system supported
- Flexible subscription plan and easy to renew/purchase online
- Immediate access to all latest updates and future releases

### Simple deployment

- Effective provisioning via VPN wizard with IKEv2 initiated
- Intuitive panel with 25 multilingual support
- Easy VPN configuration can be saved as a portable file

\*<sup>1</sup>: The Windows version software must be activated with a license key from SecuExtender IPSec VPN Client Subscription Service for Windows/macOS (1YR/3YR license). The software is not compatible with the license key from legacy SecuExtender IPSec VPN Windows Client.

\*<sup>2</sup>: Two-factor authentication works with ATP/USG FLEX/USG/VPN series

## SSL VPN Client

### Access your company network remotely

Remote work is becoming the new normal, secured verification of devices and data is imperative. The SSL VPN Client is a lite VPN software which is provided to set up secured connection without the common difficulties. The SSL VPN allows not only you but also your employees to expand network access wherever you are travelling, mobile, or in homes. We keep your data safeguarded at all times.



### SSL VPN—Business internet access on the go

The SSL VPN keeps you connected securely and productive on the go. Their set of features fulfill the need to securely access corporate resources over the internet regardless of the location.

#### Easy to use

- Deployment the SSL VPN is a simple and stress-free process, just download it, install it and you are good to connect

#### High compatibility

- Support for strong encryption options and secured authentication methods
- Super easy for mobile users to build connections from all kinds of environments

#### High scale flexibility

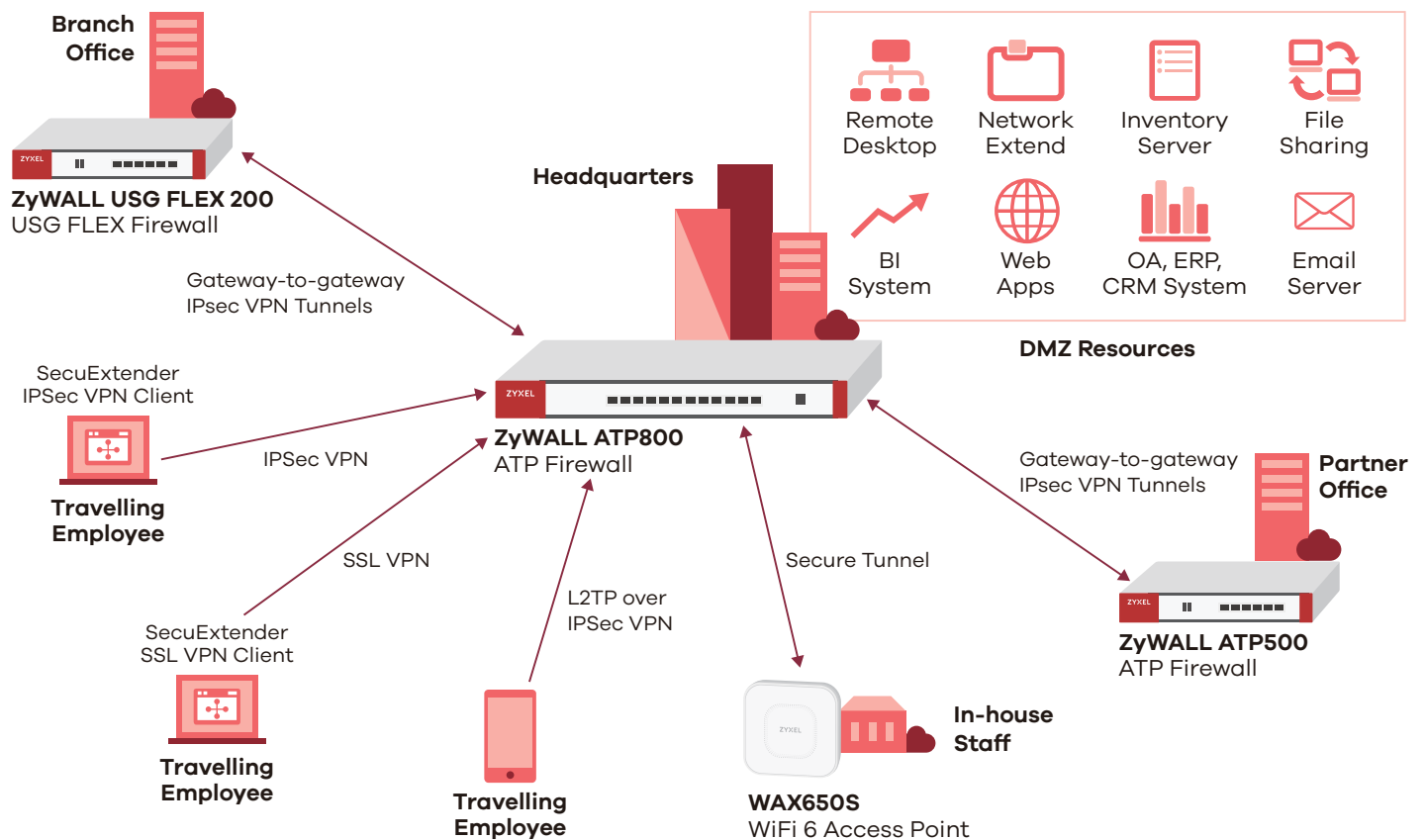
- For both small businesses and large corporations equipping their remote workforce, the SSL VPN Client represents an efficient and affordable secured solution for projects of all sizes

## Remote Access Security Solutions

Operating with Zero Trust best practices across wired or wireless network infrastructures – wherever your employees: headquarter branch offices, on-the-go, or even working from home. Together we can help your business maintain continuity and safety.

Secure Workplace	Remote Access Solution	Benefits
<b>Working on the go for teleworkers</b>	SecuExtender Zero Trust VPN Client	<ul style="list-style-type: none"> <li>• Two-factor Authentication (2FA)</li> <li>• Secure access with reliable IPSec/SSL VPN connectivity</li> <li>• Easy installation and simple user experience</li> <li>• Cost-effective, trusted service</li> </ul>
<b>Home offices</b>	Remote Access Point (RAP)	<ul style="list-style-type: none"> <li>• Two-factor Authentication (2FA)</li> <li>• Layer 2 extension with synchronized security</li> <li>• Simple provisioning</li> </ul>
<b>Remote location between HQ &amp; branch offices</b>	ZyWALL ATP/USG FLEX Series Firewalls	<ul style="list-style-type: none"> <li>• Two-factor Authentication (2FA)</li> <li>• Advanced protection with central management</li> <li>• Secure encrypted tunnel</li> </ul>

## Application Diagram



# Specifications

## IPSec VPN Client Subscription Service (Time-based)\*

### System Specifications

- Windows 10 64-bit
- macOS 10.15 or above

### Hardware Specifications

- 5M Bytes free disk space

### Product Specifications

- Hash Algorithms
  - SHA2-HMAC 256-bit authentication
  - SHA2-HMAC 384-bit authentication
  - SHA2-HMAC 512-bit authentication
- Encryption
  - AES 128, 192, 256-bit encryption
  - AES GCM 128,192, 256-bit encryption
  - AES CTR 128, 192, 256-bit encryption
- Diffie Hellman Group Support
  - Group 14: MODP 2048
  - Group 15: MODP 3072
  - Group 16: MODP 4096
  - Group 17: MODP 6144
  - Group 18: MODP 8192
  - Group 19: ECP 256 (IKEv2 only)
  - Group 20: ECP 384 (IKEv2 only)
  - Group 21: ECP 512 (IKEv2 only)
- Authentication Mechanism
  - PSK (Pre-shared Key)
  - EAP (Login/Password)
  - PKI (X.509) Certificate
  - Certificate authentication methods:
    - RSA Digital Signature [RFC 7296]
    - ECDSA avec SHA-256 [RFC 4754]
    - Digital Signature Authentication RSA [RFC 7427]
  - X-Auth (IKEv1)
  - Hybrid: X-Auth + Certificate (IKEv1)
- Certificate Formats
  - PEM
  - PFX
  - PKC #12
- Key Management
  - ISAKMP (RFC2408)
  - IKE (RFC2409) & IPSec mode
  - IKEv2 (RFC7383)
  - ESP
- IKEv1 support
  - Mode Config
  - IP fragmentation
  - NAT-Traversal
  - Check gateway's remote ID
  - Tunnel and transport modes
  - Auto mode (negotiation of algorithms with gateway)
- IKEv2 support
  - Mode CP

- IP fragmentation
- NAT-Traversal
- Childless IKE (RFC 6023)
- IP fragmentation
- Extended Sequence Number (ESC) (RFC 4304)
- Endpoint Visibility
  - Collecting endpoint information for admission control
    - MAC address
    - Inner IPv4 address
    - Hostname
    - Unique ID
    - Zyxel client version
    - OS type
    - OS version
    - System manufacturer
    - System model
- Networking
  - NAT traversal (Draft 1, 2 & 3)
  - Dead Peer Detection (DPD)
  - Redundant gateway
- Connection Technologies
  - Dial-up modem
  - GPRS
  - Ethernet
  - WiFi

## IPSec VPN Windows Client (Perpetual)

### System Specifications

- Windows 7 32/64-bit
- Windows 8 32/64-bit
- Windows 10 32/64-bit

### Hardware Specifications

- 5M Bytes free disk space

### Product Specifications

- Hash Algorithms
  - MD5-HMAC 128-bit authentication
  - SHA1-HMAC 160-bit authentication
  - SHA2-HMAC 256-bit authentication
  - SHA2-HMAC 512-bit authentication
- Encryption
  - DES CBC 56-bit encryption
  - 3DES-CBC 168-bit encryption
  - AES 128, 192, 256-bit encryption
- Diffie Hellman Group Support
  - DES CBC 56-bit encryption
  - Group 1: MODP 768
  - Group 2: MODP 768
  - Group 5: MODP 1536
  - Group 14: MODP 2048
  - Group 15: MODP 3072
  - Group 16: MODP 4096
  - Group 17: MODP 6144
  - Group 18: MODP 8192

- Authentication Mechanism
  - PSK (Pre-shared Key)
  - EAP (Login/Password)
  - PKI (X.509) Certificate
  - X-Auth
- Key Management
  - ISAKMP (RFC2408)
  - IKE (RFC2409) & IPSec mode
  - IKEv2 (RFC7383)
  - ESP, tunnel, transport
  - Main mode, aggressive mode
  - Hybrid authentication method
- Certificate
  - PEM
  - PKCS #12
- Endpoint Visibility
  - Collecting endpoint information for admission control
    - MAC address
    - Inner IPv4 address
    - Hostname
    - Unique ID
    - Zyxel client version
    - OS type
    - OS version
    - System manufacturer
    - System model
- Networking
  - NAT traversal (Draft 1, 2 & 3)
  - Dead Peer Detection (DPD)
  - Redundant gateway
- Peer to Peer
  - Peer to peer connections
  - Accepts incoming IPSec tunnels
- Connection Technologies
  - Dial-up modem
  - GPRS
  - Ethernet
  - WiFi

## SSL VPN Client

### System Specifications

- Windows 7 32/64-bit
- Windows 8 32/64-bit
- Windows 10 32/64-bit
- MacOS 10.14 or above

### Hardware Specifications

- 5M Bytes free disk space

\*: The Windows version software must be activated with a license key from SecuExtender IPSec VPN Client Subscription Service for Windows/macOS (1YR/3YR license). The software is not compatible with the license key from legacy SecuExtender IPSec VPN Windows Client.



**For more product information, visit us on the web at [www.zyxel.com](http://www.zyxel.com)**

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