



Strong Authentication Solution with OTP

Benefits

Strong Two-Factor Authentication Solution

The starting point of security is to ensure that only authorized people can remotely access the protected network applications and resources. Given enough time for attempts, it's relatively easy for unauthorized intruders to crack a static password. With a one-time password, the risk can be greatly reduced by constantly altering the combination. The ZyWALL OTP authentication token is a chip-based, 6-digit numeric PIN to be used alongside a password for strong two-factor authentication. The ZyWALL OTP solution includes an ASAS server for back-end OTP authentication, and it can be easily integrated with existing ZyWALL security solutions.

One Token for Many Applications

The ASAS server is a network security application that provides LAN, Web, VPN, and remote access with strong authentication capability; it resides on the network and is managed by network administrators, while the ZyWALL OTP is operated on client computers. Together, they provide highly robust one-time password authentication to protect network resources; the most common implementation using the two-factor authentication technology is remote VPN authentication. Working with the powerful RADIUS-standard ASAS server, ZyWALL OTP token can be used universally in the authentication processes of LAN, Web and OWA applications.

No Expiration Date for Lower Operating Costs

Nobody likes tokens that expire quickly, and validity of merely a year is simply not enough. Expired tokens can cause inconvenience since administrators need to reconfigure the user setting and re-issue new tokens. With the concern in mind, ZyXEL put a heavy-duty battery inside the ZyWALL OTP to prevent tokens from premature expiration. As a result, the availability of the tokens can be extended to as long as 3 years.

Intuitive and Easy to Install, Use and Manage

There are various ways to implement the authentication schemes. However many small-to-medium businesses, enterprises and organizations need a two-factor authentication system that is easy to understand, install and administer; and it must be reliable once installed. With the combination of driverless ZyWALL OTP tokens and an ASAS server, this solution provides everything needed to deploy the two-factor authentication capability into network environments.

Seamless Integration with ZyWALL Security Products

The ZyWALL OTP can be easily deployed along with ZyWALL security products, including ZyNOS ZyWALL, ZLD ZyWALL, SSL10 and integrated into the existing network infrastructure. These combinations provide customers with Two-Factor Authentication, an optimum security methodology, to significantly elevate the safety level of the authentication process.

- Strong Two-Factor Authentication Solution
- One Token for Many Applications
- No Expiration Date for Lower Operating Costs
- Intuitive and Easy to Install, Use and Manage
- Seamless Integration with ZyWALL Security Products



One-Time Password for
Two-Factor
Authentication

ZYWALL
OTP

Specifications

System Specifications

Chip-based Authentication Token

- NAT Mode
- DMZ Mode
- Driverless

OTP Number Generation

- OATH Algorithm
- 160-bit

Supported Software

- Remote Access (With Authenex ASAS Authentication Server):
 - SSL VPN
 - VPN with: OTP-capable VPNs
 - Dial-up to a remote server with RADIUS
 - Web access with RADIUS
- Authentication Interoperability
 - Network Login for MS Windows 2000 and XP
 - Secure Web Access (MS Internet Explorer)

ASAS Server Software

- OATH Algorithm
- RADIUS Standard Server (ASAS Server)
- Easy Administration via Web Management GUI
- Easy to Integrate into the existing Network Infrastructure
- Use a Web browser to manage ASAS anytime, anywhere

ASAS Server Requirements

- Hardware:
 - CPU: Pentium-compatible CPU
 - RAM: 512 MB or Higher
 - Disk Space: 10 Gigabytes free Hard Disk space (after OS)
- Software:
 - Operation System: Microsoft Windows 2000 and 2003 Server Edition
 - Service Packs: Microsoft Windows 2000 Service Pack 3 or above

Hardware Specifications

- On-board security Processors: support
 - AES Advanced Encryption Standard: 128-bit
 - SHA-1
- Display (LCM): 6-digital Numeric LCD display
- Power: Internal battery
- Casing: Polycarbonate

Physical Specifications

- Dimensions: 55 (W) x 25 (D) x 12.2 (H) mm
- Weight: 13 g

Environmental Specifications

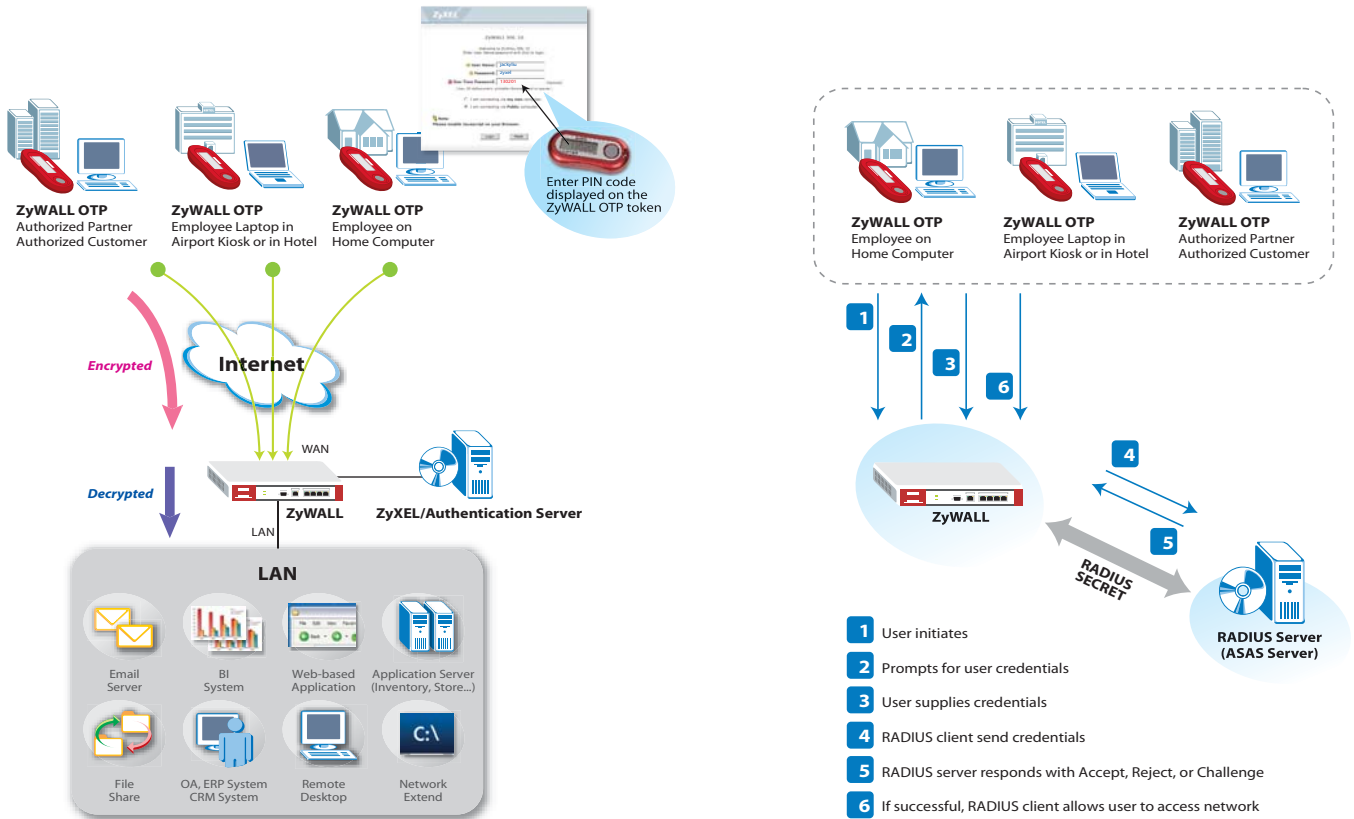
Operation Environment

- Temperature: 0°C ~ 50°C
- Humidity: 20% ~ 95%

Storage Environment

- Temperature: 10°C ~ 50°C
- Humidity: 20% ~ 95%

Application Diagram



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