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**SoftEther VPN Server ???**

?????????? VPN ??????

- 4,096 ?????

?????????? HUB ?

- 4,096 ?

?????????????? **VPN**

- ?? 2 (Ethernet ????)
- ?? 3 (IP ??????)

???????????? **VPN**

- ?? 2 (Ethernet ????)
- ?? 3 (IP ??????)

??????????

- VoIP / QoS ????
- ????????????????????

**?? HUB ????????????????????**

- ???: 10,000
- ???: 10,000
- ??????????: 32,768
- MAC ???????????: 65,536
- IP ???????????: 65,536
- ??????: 128

**SecureNAT ??**

- ?? NAT ??: ?? HUB ????? 4,096 NAT ????
- ??????? NAT
- ??????? NAT
- ?? DHCP ??????

## ????(HA)????????

- [??????????: 64](#)
- [?????????](#)
- [????????????????????????????](#)
- [???????????????????????????? HUB ?????](#)
- [????????????????????](#)

## ????????

- [?????????: RADIUS ?? / NT ??? ? / Active Directory](#)
- [????????????????????????????](#)
- ?? HUB [???????????](#)
- [????????????????????????](#)
- [????????????????????????????](#)
- DoS ??(SYN Flood ??)????????

## ????

- Windows ? GUI ?? [VPN ????????????](#)
- CUI [????????????????????\(vpncmd\)](#)
- syslog ??????????
- [VPN ????????????????](#)

## SoftEther VPN Server????????VPN??????

- [SoftEther VPN ????? \(Ethernet over HTTPS\)](#)
- [OpenVPN \(L3 ??? L2 ???\)](#)
- [L2TP/IPsec](#)
- [MS-SSTP \(Microsoft Secure Socket Tunneling Protocol\)](#)
- [L2TPv3/IPsec](#)
- EtherIP/IPsec

## SoftEther VPN ?????????

- [??????????: ??????](#)
- VPN ??????????(?): SSL (Secure Socket Layer) 3.0 / TLS (Transport Layer Security) 1.0
- VPN ??????????(?): TCP/IP ? UDP/IP ??? (IPv4 ??? IPv6 ?)
- ?????:  
RC4-MD5, RC4-SHA, AES128-SHA, AES256-SHA, DES-CBC-SHA and DES-CBC3-SHA
- ?????: zlib

- ??????: 128bit
- ??????: ??????HTTP over SSL Protocol (RFC2818, RFC 5246)
- WAN ????: [???? VPN ?????????? 1732 ? TCP ?????](#)
- ?????: ??????????????
- ??????: [HTTP ?????????? SOCKS ?????????](#)
- TCP ????: 443, 992 ??? 5555 (????)  
[???? TCP ??????????????????](#)
- NAT ??????:[NAT-Traversal ??????????????](#).  
NAT ??????????????NAT ?? VPN ??????????????????????
- ??????????????????:  
[VPN over ICMP](#) (ICMP ?????????? VPN ??????)  
[VPN over DNS](#) (DNS ?????????? VPN ??????)
- [???????](#):
  - ????
  - ????????
  - RADIUS ????????????
  - NT ?????? Active Directory ????????????
  - X.509 RSA PKI ?????? (?? VPN ??????????????????)
  - X.509 RSA PKI ?????? (?? PKCS#11 ??????????????? USB ??????????)
- VPN ??????????:  
Ethernet (IEEE802.3) ????? (?? 1,514 ??????????1,518 ??? IEEE802.1Q ??? VLAN)
- ?? VPN ??????: [SoftEther VPN Client](#)
- ?????????? OS: Windows ? Linux
- ????? VPN ???: [????????? VPN](#), [??? VPN \(L2 ?????\)](#) and [?????? VPN \(L3 ???????\)](#)

### SoftEther VPN Server ? L2TP/IPsec ????????????

- ??????: PAP ??? MS-CHAPv2
- NAT ??????: RFC3947 IPsec over UDP Encapsulation
- ??????????: UDP 500 ? UDP 4500
- ??????????: DES-CBC, 3DES-CBC, AES-CBC
- ??????????: MD5 and SHA-1
- ??? Diffie-Hellman ?????:  
MODP 768 (Group 1), MODP 1024 (Group 2) and MODP 1536 (Group 5)
- ?????? VPN ??????: [Windows](#), [Mac](#), [iOS](#) ??? [Android](#) ?????????? VPN ??????
- ?????????????????? OS: [Windows](#), [Mac](#), [iOS](#), [Android](#) ?????????? L2TP ?????????????????????? OS
- ????? VPN ???: [????????? VPN](#)

### SoftEther VPN Server ? OpenVPN ????????????

- [OpenVPN Technologies](#) ????? ??? OpenVPN ????????

- ??????????:  
TCP 443, 992 ??? 5555  
UDP: 1194
- ??????????:  
AES-128-CBC, AES-192-CBC, AES-256-CBC, BF-CBC, CAST-CBC,  
CAST5-CBC, DES-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC,  
RC2-40-CBC, RC2-64-CBC ??? RC2-CBC
- ??????????: SHA, SHA1, MD5, MD4 ??? RMD160
- ??????: L2 (????) ??? L3 (?????)
- ??????????????: [OpenVPN for PC \(Windows, Mac, Linux\)](#) ??? [OpenVPN Connect](#)  
by OpenVPN Technologies, Inc.
- ?????????????? OS: [Windows](#), [Linux](#), [Mac](#), [iOS](#) and [Android](#)
- ????? VPN ??:  
????????? VPN, ?????? VPN (L2 ????) ??? ?????? VPN (L3 ??????)

### SoftEther VPN Server ? SSTP ??????????

- [Microsoft's Windows Server 2008 R2 / 2012 ? SSTP ??????????](#).
- ??????: PAP and MS-CHAPv2
- TLS ??????????????:  
RC4-MD5, RC4-SHA, AES128-SHA, AES256-SHA, DES-CBC-SHA and DES-  
CBC3-SHA
- ??????????????: Windows Vista, 7, 8, RT ?????? VPN ??????????
- ?????????????? OS: Windows Vista, 7, 8, RT, Server 2008, Server 2008 R2, Server  
2012
- ????? VPN ??: ?????????? VPN

### L2TPv3 Server Function Specifications on SoftEther VPN Server

- [Cisco ? L2TPv3 ?????? VPN ??????????](#)
- NAT ??????: RFC3947 IPsec over UDP Encapsulation
- ??????: UDP 500 ??? UDP 4500
- ??????????: DES-CBC, 3DES-CBC, AES-CBC
- ??????????: MD5 ??? SHA-1
- ????? Diffie-Hellman ?????:  
MODP 768 (Group 1), MODP 1024 (Group 2) ??? MODP 1536 (Group 5)
- ????? VPN ??: ?????? VPN (L2 ?????)
- ??????????????: Cisco IOS ? L2TPv3 VPN Client
- ?????????????? OS: Cisco IOS ?????????? L2TPv3 ?????? OS

### EtherIP Server Function Specifications on SoftEther VPN Server

- NAT ??????: RFC3947 IPsec over UDP Encapsulation
- ??????????: DES-CBC, 3DES-CBC, AES-CBC

- ??????: UDP 500 ??? UDP 4500Supported Hashes:
- ??????: MD5 and SHA-1
- ??? Diffie-Hellman ???:  
MODP 768 (Group 1), MODP 1024 (Group 2) ??? MODP 1536 (Group 5)
- ??? VPN ??: Site-to-Site VPN (L2-Bridging)
- ??????????: EtherIP VPN Client
- ?????????? OS: EtherIP ??? OS

????

?? OS

- **Windows (32bit, 64bit)**  
Windows 98 / 98 SE / ME / NT 4.0 SP6a / 2000 SP4 / XP SP2, SP3 / Server  
2003 SP2 / Vista SP1, SP2 / Server 2008 SP1, SP2 / Hyper-V Server 2008 / 7  
SP1 / Server 2008 R2 SP1 / Hyper-V Server 2008 R2 / 8 / Server 2012 / Hyper-V  
Server 2012 / 8.1 / Server 2012 R2 / 10 / Server 2016
- **Linux (32bit, 64bit)**  
Linux 2.4, 2.6, 3.x, 4.x
- **Mac OS X (32bit, 64bit)**  
Mac OS X 10.4 Tiger / 10.5 Leopard / 10.6 Snow Leopard / 10.7 Lion / 10.8  
Mountain Lion
- **FreeBSD (32bit, 64bit) (?????????)**  
FreeBSD 5, 6, 7, 8, 9
- **Solaris (32bit, 64bit) (?????????)**  
Solaris 8, 9, 10, 11

???? CPU ???????

- **Windows**  
Intel x86 (32bit), Intel x64 (64bit)
- **Linux**  
Intel x86 (32bit), Intel x64 (64bit), PowerPC (32bit), ARM EABI (32bit), ARM  
legacy ABI (32bit), MIPS Little-Endian (32bit), SH-4 (32bit)
- **Mac OS X**  
Intel x86 (32bit), Intel x64 (64bit), PowerPC (32bit), PowerPC G5 (64bit)

- **FreeBSD**  
Intel x86 (32bit), Intel x64 (64bit)
- **Solaris**  
Intel x86 (32bit), Intel x64 (64bit), SPARC (32bit), SPARC (64bit)

**SoftEther VPN Server ??????????**

- **?????**  
?: 32Mbytes + 0.5Mbytes \* (VPN ??????)  
?: 128Mbytes + 0.5 Mbytes \* (VPN ??????)
- **?????????**  
?: 100Mbytes  
?: 2Gbytes (?????????)

**SoftEther VPN Client ??????????**

- **?????**  
?: 16Mbytes  
?: 32Mbytes

**?????????????**

- [???????](#)