



3.4 ?? HUB ???

SoftEther VPN Server ??????? HUB ????????????????? HUB ??????????????? VPN ?
?????????? 2 ????????????????? HUB ??????????? HUB ?????????????????????????
HUB ??? HUB ?????????????????????????????

3.4.1 ?? HUB ???

SoftEther VPN Server ????????? HUB ????????????????? HUB ?????????????????????VPN
Server ???????????VPN Server ??? HUB ??????????? HUB ????????? HUB ?????????????
????????????????????????????????????

????? HUB ??????????VPN ?????????????? [?? HUB ??] ?????????????????? HUB ??????
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????????????????? (?????????????)???????????????????????????????????? HUB ??????
HUB ?????????????????????????

?vpncommand????**HubCreate**???????????????????????? (3.9 ????????) ?????????
????**HubCreateDynamic**????????**HubCreateStatic**????????????????

[3-4-1.png](#)

?? HUB ???????

??????	???????????? ID ???????
??????? (160bit)	VPN Server ????????????????????????????????? ID ???????
???? / ??????	???????????? / ?????????????????????
??????????	????????????????????????????????????
??????????	SoftEther VPN ?????????VPN ????? VPN Server ????????????????? ?? (???????????? IP ?????????????????) ???????
??????????	SoftEther VPN ?????????VPN Server ?? VPN ????????????????????? ?? (???????????? IP ?????????????????) ???????
?????	??????? Ethernet ??? (???????? ????)?
??????????	VPN ?????????????????????????
??????????????	VPN ?????????????????????????
?????? OS ? / ??? ??	VPN ???
??????????????	VPN ???
??????????????	VPN ?????????????????????????????????????TCP/IP ???????????????
??????????	VPN ???
???? IP ????	VPN ???IP ???????????????
??????????	VPN ???
??????????????	VPN ??????????? VPN ??? ????????????????
?????? IP ????	VPN ??????????? VPN ??? ? IP ???????????????
??????????????	VPN ??????????? VPN ??? ? TCP/IP ?????????????????

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?? HUB ???VPN ?????????????????
?????????????? [??] ??????????????????vpnncmd?????SessionDisconnect??????????????

3.4.6 MAC ????????

?1.6 VPN ?????? ??????????????? HUB ?????? MAC ?????????????????????????????????
???????????????? Ethernet ????????????????????? HUB ??????????? HUB ? MAC ??????
????????????????

?? HUB ? MAC ????????????

?VPN ??????????????? [????????] ???[MAC ???????????] ?????????????MAC ???????????
?????????vpnncmd?????MacTable????????????????????

?? HUB ? IP ???????????

?VPN ?????????? [?????] ???[IP ?????????] ??????????IP ??????????????
??vpncmd????IpTable????????????????

???????????????? IP ??? IP ??????
????????????

3-4-8.png

IP ????????????

IP ????????????? (IP ??????) ????????????????

???	??
??????	IP ?????????????????????????????????
IP ????	IP ?????????????IP ?????????? ??IP ????????? "(DHCP)" ????????????????? IP ??????VPN ? ? DHCP ????????????? IP ?????????????
?????	IP ?????????????????????????????????
?????	?? HUB ????????????????? IP ????????????????????????????? ????????[????] ?? 60 ????? IP ?????????????????????????????
??	???????????? IP ????????????? VPN Server ?????????????

?? HUB ? IP ????????????

?????????????? HUB ??????? IP ?????????????????????????????????IP ?????????????????????
?VPN ?????????????? IP ?????????????? IP ??????????????[????????????] ?????????????????
?vpn cmd?????IpDelete????????????????????

???????????????????? IP ???????????????????

?VPN ?????????????? [????????] ?????????????????????????????[???????? IP ???] ?????????????????
???????????????? IP ??? IP ???????
???????????? IP ???vpn cmd?????IpTable????????????????
????????????????????

???????????????????????????? VPN ????????????????????? (????????) ????????????? IP ???
?? 2 ??????? HUB ??????? IP ?????????????????????????
???????????? 2 ???

[3-4-9.png](#)

???????????????????? IP ???????????????????

3.4.8 IP ???????????????????

?? HUB ? 3.4.7 ??????? IP ????????????????????????????????? IP ?????????????????????
????????????IP ????????????????????? IP ?????????? HUB ?????????? 2 ?????????????????????

???????? HUB ??? 2 ?????????????
????????????????

3-4-10.png

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

?? HUB???????????????????????? HUB?? 2 ??? HUB ?
?? HUB ??? VPN ?????
?? (??? / ??????????) ??? VPN Client ?????? HUB ?? VPN ?????????????????
????????????????

3-4-11.png

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?? HUB ????? HUB ?????????????????????VPN ????????????? [????????] ?????????
?????["? HUB ?" ?????????] ????????????????????? [????] ????????????????? VPN ???
???????????? HUB?? TCP/IP ?????????
HTTP ????????? SOCKS ????????????????? VPN ?????????????

??VPN Client ???
????????????[4.4 VPN Server](#) ?????????????????????

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???????????????????????????????????? HUB ????????????????????????? HUB ????????????????????? ????????????????? ? VPN Server ??? HUB ??? ?? VPN Server ??? HUB ? VPN Bridge ????????????????????? VPN Server ??? HUB ????????? ????????????VPN Bridge ? "BRIDGE" ????????? HUB ?????????????????????????????VPN Bridge ????????????? VPN ????????????????????? ???????????????? HUB ??? ????? HUB ???

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???????????? HUB ????????????????????? Ethernet ?????????????????????
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???????????? HUB ????????????????????? Ethernet ?????????????????????
???????????????? [????????] ?????????????????????????????????

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3-4-14.png

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?? HUB ?????? **128** ??? 1 ??? HUB ??????
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??VPN ?????????????? ["?? HUB ?" ???
?????] ?????????????????[??] ???
?????VPN Client ? VPN ???[4.5 VPN Server](#)
[?????](#) ????????????

YieldAfterStorePacket	true HUB CPU true
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3.4.17

HUB
 WAN LAN
 (VoIP) IP

ss4.6.png

??????????????

3.4.18

HUB ? VPN Client
 http:// URL ? 1 URL Web ?

ManageOnlyLocalUnicastIPv	<p>???? 1 (??) ?????? HUB ??????? IPv6 ?? ???????????????? IPv6 ?????????????? ???????????????? IPv6 ??????fe80::/10 ?? ???????? IPv6 ????? IPv6 ?????????? ????????</p>
DisableIPParsing	<p>???? 1 (??) ?????? HUB ??????? Ethernet ????? IP ?????????????? VPN Server ? CPU ?????????????? ???? HUB ? IP ?????????????? ???? IP ?????????????? ??</p>
YieldAfterStorePacket	<p>???? 1 (??) ?????? HUB ??? VPN ?????? ???????????????? VPN ?????????? ???????? CPU ?????????????? ???????????????????????????? ???????????????????????????? ????????????????????????</p>
FilterPPPoE	<p>???? 1 (??) ?????? HUB ????? PPPoE (PPP over Ethernet) ?????????????? ?? LAN ?????????????? PPPoE ?????? ????????</p>
FilterOSPF	<p>???? 1 (??) ?????? HUB ????? OSPF (Open Shortest Path First) ?????????? ?????</p>
FilterIPv4	<p>???? 1 (??) ?????? HUB ????? IPv4 ?????? ? ARP ??????????????</p>
FilterIPv6	<p>???? 1 (??) ?????? HUB ????? IPv6 ?????? ?????????????</p>
FilterNonIP	<p>???? 1 (??) ?????? HUB ????? IP ??? (IPv4, ARP, IPv6 ??????) ?????? ???????? HUB ????????? VLAN ????? IP ??????????</p>
FilterBPDU	<p>???? 1 (??) ?????? HUB ????? BPD (Bridge Protocol Data Unit) ?????????? ???????????????????????????? ??</p>
NoIPv6DefaultRouterInRAWhenIPv6	<p>???? 1 (??) ?????? HUB ?????????? VPN ????? [IPv6 ?????????????? (IPv6 ?????)] ??????????VPN Client ??? VPN Bridge ? VPN Server ????? ???????????????????? IPv6 ?????? VPN ???????????? HUB ?????? IPv6 ?????? IPv6 ????????????????? 0 ?????????? ???? 0 ??????????VPN ??????</p>

	IPsec / L2TP / EtherIP / L2TPv3 ?????????? ????? VPN ?????????????????MSS ?????????? ?????
NoDhcpPacketLogOutsideHub	????? 1 (??) ??????? HUB ?????? DHCP ??? IP ?????????????????? HUB ?????????????? ?????????????????????????????
DisableHttpParsing	????? 1 (??) ??????? HUB ?????????? HTTP ????? HTTP ?????????????????????????? VPN Server ? CPU ?????????????????????????? HTTP ??????????????????????
DisableUdpAcceleration	????? 1 (??) ?????????? HUB ?????????????? VPN ?????????? UDP ??????????????????
DisableUdpFilterForLocalBridgeNic	????? 1 (??) ??????? HUB ?????????????????? ????????? LAN ???? VPN ?????????? DHCP ? ????? IP ?????????????????????????????????? ? DHCP ??????????????????????????
ApplyIPv4AccessListOnArpPacket	????? 1 (??) ??????? HUB ?????????? IPv4 ?? ?????????? ARP ?????????????????? ARP ???? ????????????????????
RemoveDefGwOnDhcpForLocalhost	????? 1 (??) ??????DHCP ??????? HUB ???? ?? VPN ??????? IP ?????????????????? VPN ??? ????? VPN Server ?????????????????????????? DHCP ????????????????????????????????????? ????????????????????????????????????
SecureNAT_MaxTcpSessionsPerIp	????? 0 ?????????????????SecureNAT ??????? VPN ??????? 1 ????? TCP ??????? (SYN_SENT ?????? TCP ??????) ?????????? ??????????
SecureNAT_MaxTcpSynSentPerIp	????? 0 ?????????????????SecureNAT ??????? VPN ??????? 1 ????? TCP ??????? (SYN_SENT ??? TCP ??????) ?????????????? ?????????
SecureNAT_MaxUdpSessionsPerIp	????? 0 ?????????????????SecureNAT ??????? VPN ??????? 1 ????? UDP ?????????????????? ??????????
SecureNAT_MaxDnsSessionsPerIp	????? 0 ?????????????????SecureNAT ??????? VPN ??????? 1 ????? DNS ?????????????????? ??????????
SecureNAT_MaxIcmpSessionsPerIp	????? 0 ?????????????????SecureNAT ??????? VPN ??????? 1 ????? ICMP ?????????????????? ????????????

AccessListIncludeFileCacheLifetime	?? HUB ?????????????????? "include:" ?? ? "exclude:" ?????????????????????????????? ??
DisableKernelModeSecureNAT	???? 1 (??) ?????SecureNAT ????????????? ? NAT ?????????????? NAT ??SecureNAT ??? NAT ?????????????????????????VPN Server ?????????????????????????????? ? NAT ?????????????????????????????? ?????? NAT ?????????????
DisableUserModeSecureNAT	???? 1 (??) ?????????????????? MAC ???? ???????????????????? LAN ?????????????? ???????????????? LAN ????????????? HUB ?? ???????????????? HUB ? MAC ?????????? ?? ?????????????????
DisableCorrectIpOffloadChecksum	???? 1 (??) ?????????????????? IP ?????? ????????????????????IP, TCP, UDP ?????????? ???????????????????? LAN ?????????? IP ??? ???????????????? VPN Server ?????????????? ???? IP ?????????????????????????????? ?? ??
BroadcastLimiterStrictMode	???? 1 (??) ??????? HUB ????????????????? ???????????????????????????? IP ????????? IP ? ???????? 1 ?????????????????????????????
MaxLoggedPacketsPerMinute	1 ?????????????????????????????????????
DoNotSaveHeavySecurityLogs	????????????????????????????????????
DropBroadcastsInPrivacyFilterMode	?? ????????????????
AllowSameUserInPrivacyFilterMode	?? ????????????????????????????
SuppressClientUpdateNotification	VPN Client ??????????????????????
FloodingSendQueueBufferQuota	?????? HUB ?????????????????????????? ???????????????????? (???) ????????????? ???????? VPN ?????????????????????????? ????????0 ????????????????????????????? ?? ???????
AssignVLanIdByRadiusAttribute	VLAN ID ??????????????????VPN ????????? ???????????????????? VLAN ID ?????????? ?? VPN ?????????????????? RADIUS ?????? ????? RADIUS ?????????? VLAN ??????????

	RADIUS ?????? "Tunnel-Pvt-Group-ID" (ID = 81) ?????????????????????????????????
DenyAllRadiusLoginWithNoVlanAssign	????? 1 (??) ??????RADIUS ?????? "Tunnel-Pvt-Group-ID" (ID = 81) ????????????????? VPN ????????????? (AssignVlanIdByRadiusAttribute ??? 1 ??? ??????)
SecureNAT_RandomizeAssignIp	????? 1 (??) ??????SecureNAT ?????????? DHCP ???????DHCP ?????????????????? IP ????? ?????? IP ?????????????????????????????????? ?? ???????
DetectDormantSessionInterva	????? 0 ?????????????????????????????? VPN ?????? ????????? (????) ?????????????????????? VPN ????? ?????????? HUB ?????????????????????????????? ?????????????
NoPhysicalIPOnPacketLog	????? 1 (??) ?????????????????????????? VPN ??? ????????????? VPN ?????????? IP ?????????????????? ??????
UseHubNameAsDhcpUserClassOption	????? 1 (??) ?????????? HUB ? DHCP ?????????? IP ?????????????????????? HUB ? DHCP ?????? "User-Class" ?????????????????????????????????? ? HUB ??????????DHCP ?????????????????? HUB ?? IP ??????????????????????(L2TP/IPsec ??? OpenVPN ??????????????)
UseHubNameAsRadiusNasId	????? 1 (??) ??????NAS-Identifier RADIUS ? ????? HUB ??????????????????????RADIUS ?????? ????? HUB ?????????????? / ?????????????????????
AllowEapMatchUserByCert	If you enable (set to 1) this option, the Virtual Hub will attempt to match the EAP Identity not only with usernames, but also with user certificates during the PPP EAP authentication flow.

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- [1.4 VPN ??????????????](#)
- [1.6 VPN ??????](#)
- [1.9 VoIP / QoS ?????](#)
- [2.1 VPN ??????????](#)
- [2.2 ????????](#)
- [2.3 ????????](#)

- [3.5 ?? HUB ????????](#)
- [3.6 ????????](#)
- [3.9 ????????](#)
- [3.10 ????????](#)
- [4.4 VPN Server ??????](#)
- [4.5 VPN Server ????](#)
- [6.3.57 "HubCreate": ??? ?? HUB ???](#)
- [6.3.58 "HubCreateDynamic": ??????????? HUB ??? \(?????????\)](#)
- [6.3.59 "HubCreateStatic": ??????????? HUB ??? \(?????????\)](#)
- [6.3.65 "MakeCert": ??? X.509 ???????????](#)
- [6.4 VPN Server / VPN Bridge ?????????????? \(?? HUB ?\)](#)
- [6.4.1 "Online": ?? HUB ??????????](#)
- [6.4.2 "Offline": ?? HUB ??????????](#)
- [6.4.3 "SetMaxSession": ?? HUB ???????????????????](#)
- [6.4.82 "SessionList": ????????????????](#)
- [6.4.83 "SessionGet": ????????????](#)
- [6.4.84 "SessionDisconnect": ??????????](#)
- [6.4.85 "MacTable": MAC ????????????????????](#)
- [6.4.86 "MacDelete": MAC ????????????????????](#)
- [6.4.87 "IpTable": IP ????????????????????](#)
- [6.4.88 "IpDelete": IP ????????????????????](#)