



????SoftEther VPN ?????????????? VPN ?????????????? VPN ?????????????? SoftEther VPN ???
????????????? VPN ??????????????

1.4.1 ??? Ethernet ???

SoftEther VPN ???Ethernet ?????????????????????????????????????? VPN ?????????????????????? Ethernet ???????
?????????????????????????????????????

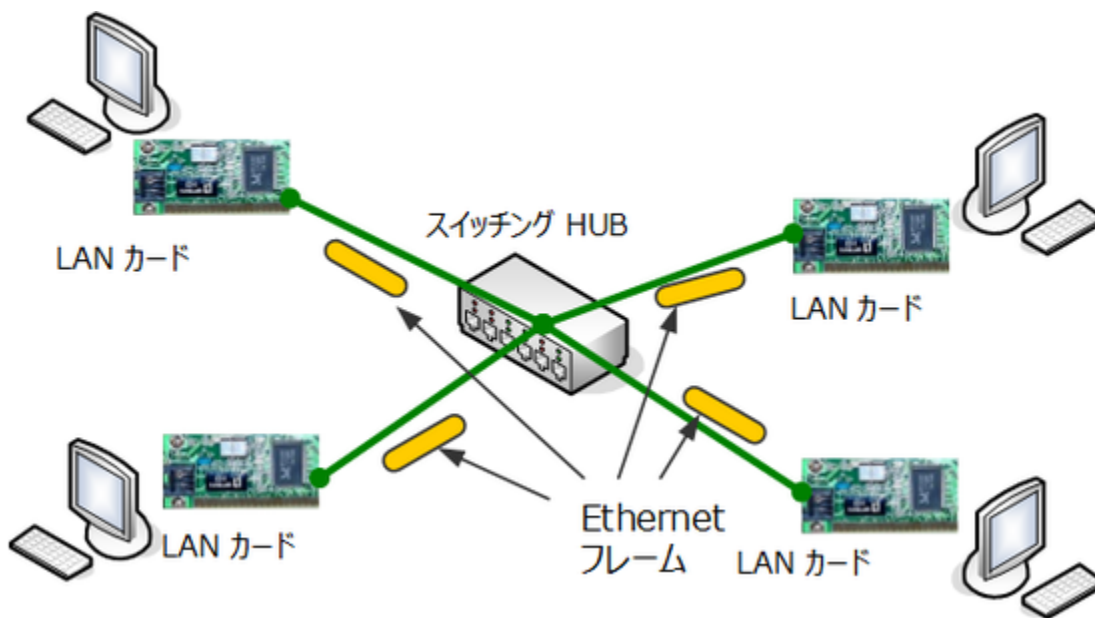
Ethernet ???

??? 100Base-TX ? 1000Base-T ??????? Ethernet ?? (IEEE802.3) ????? LAN ?????? Ethernet ????????? (LAN ???)
???????????????????????????????????? HUB (??? 2 ??????????????????) ???

?????? HUB ? LAN ???

Ethernet ?? Ethernet ??????????????????????LAN ????(??????????????
?????) ??????????? Ethernet ?????????

??????LAN ?????? UTP ??????????????????LAN ?????????????????????????????????? Ethernet ????????? HUB ????????



Ethernet ??????????? HUB ? LAN ???

MAC ????

Ethernet ????????????????????????????????????? ID ????????????????????????????????? LAN ?????????? 48bit ? ID ?????????????????? 48 bit ?
ID ??????MAC ????????????????????????????????? LAN ???? MAC ??? (SoftEther VPN ???? LAN ??????
????????????????? LAN ??????????????????MAC ???)

Ethernet ??????????? (Ethernet ????)

Ethernet ?????????????????????????????????????Ethernet ??????????MAC ??????????Ethernet ??????????????? (?????????????
?Ethernet ??????????????????????????????)Ethernet ????????????????????????????????????? (?????) ????????????????????????????????????? 4 ?????
???



Ethernet ???? (MAC ????)

??? MAC ???? (48bit)?Ethernet ?????????????????????????????????????? Ethernet ?????????????????????? MAC ????
 ?????????????????Ethernet ????????? HUB ?????????????? MAC ????????????? Ethernet ?????????????

???? MAC ???? (48bit)???? Ethernet ??????????????????LAN ???? MAC ?????????????????????

???????? (16bit)???? Ethernet ?????????? (?????) ????? 3 ?????????????????????? 16bit ??????????IP ????
 0x0800?ARP ?? 0x0806 ??
 ??????????

?????? (?? 1,500 Bytes)? Ethernet ?????????????????????????????

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

Ethernet ??????Ethernet ????????????????????????????? LAN ???? MAC ?????????????????? (?????) ??Ethernet ????
 ????????????? LAN ?????????????????? (????????) ? 2 ?????????????????????

???????????????????????????????? MAC ????????? LAN ???? MAC ??? MAC ???
 ????????? MAC ?????????FF:FF:FF:FF:FF:FF?????????? FF:FF:FF:FF:FF:FF ??? MAC ?????????????????????????????????
 ????????????????????????????????? Ethernet ?????????????????????? (LAN ??) ???????

????? HUB ?????

Ethernet ????????????????? HUB?(??? 2 ????) ??Ethernet ??? HUB ??????
 (?? 8 ??????????????????????????) ????????? Ethernet ????????????????? LAN ????????????????????? HUB ????
 ??? LAN ????????????????????????????????? 2 ??? Ethernet ?????????????????

???????? HUB ????????????? HUB ????????????????????????????????? HUB ????? Ethernet ?????????????
 ????????? LAN ????????????????????? Ethernet ?????????????????????? (????????????????????)?

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

1.4.2 ?? HUB

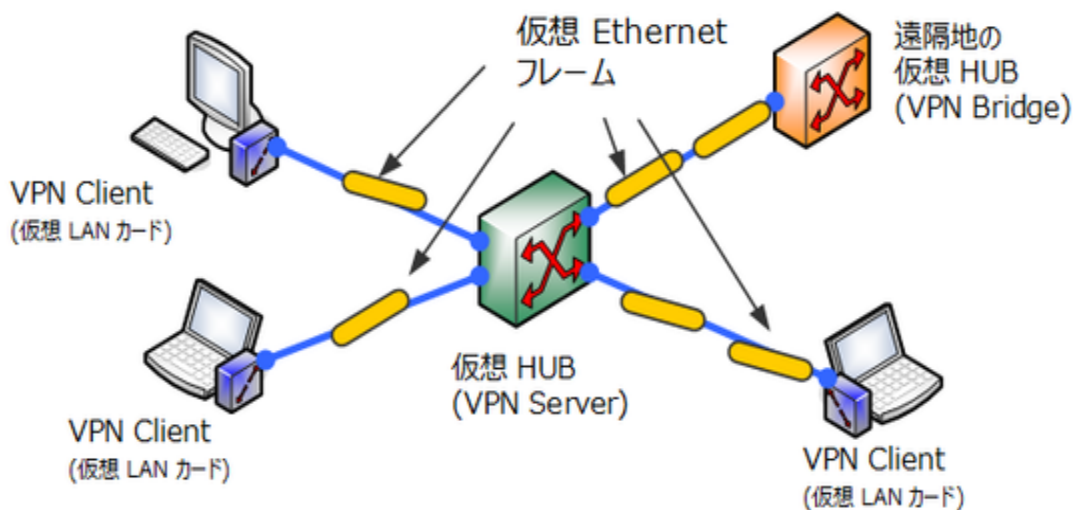
SoftEther VPN ?????????????? HUB???LAN ??????????????????Ethernet ??????? VPN ?????????????????? HUB ???
?????????????1.6 VPN ??????? ?????????? HUB ??????????????

?? HUB ???

??? HUB???SoftEther VPN ?????????????? 1 ?????? HUB ??????????????2 ?????? HUB ?????????????????????????????
HUB ? MAC ?? HUB ?????????????????????????????
SoftEther VPN ??? HUB ???

?? HUB ??? VPN ?????????????????? ?1.6 VPN ??????? ??? ?3.4 ?? HUB ?????? ??????????

SoftEther VPN Server ???1 ?????????????? HUB ?????????????????? HUB ?????????????? CPU ?????????????????????????????
????????????????? HUB ? VPN ?????????????????? Ethernet ??????????????MAC ?????????????????????????????????????? VPN ?????????????
????? Ethernet ?????????????????????????????? 2 Ethernet ??????????????????



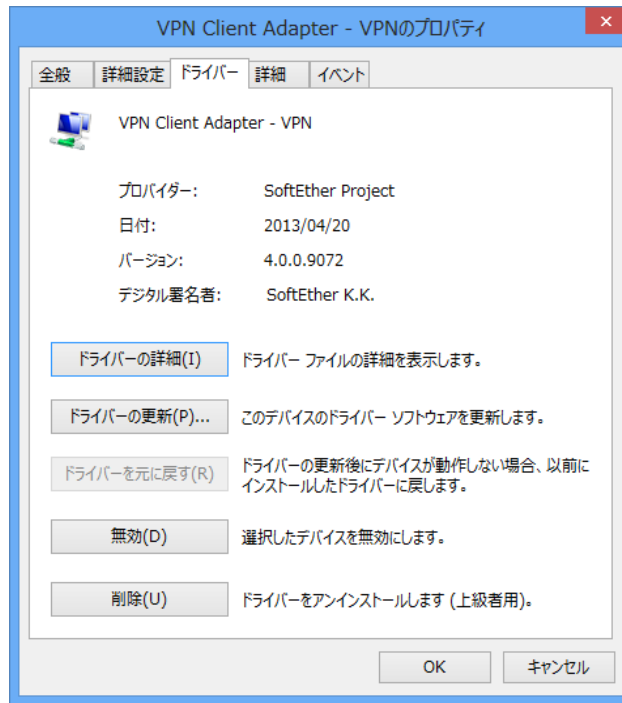
?? HUB ??? HUB ?????? LAN ??????????

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

1 ?? VPN Server ?????????? HUB ?????????????????? HUB ?? HUB ??????????VPN Server ??
????????? Ethernet ??????????????????????????????

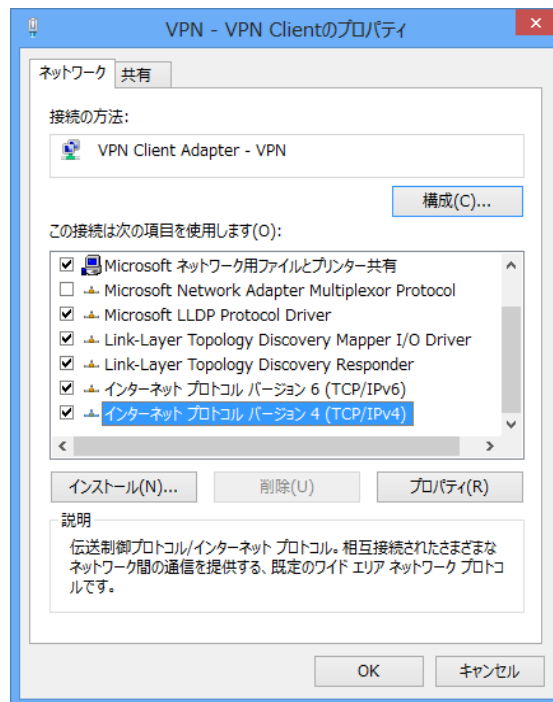
SoftEther VPN ??? HUB ?????? Ethernet ?????????????????? HUB ??????LAN ?????????????????????????????? IP ?????? (?????
?????) ?????? TCP/IP ?????????????????? (SoftEther VPN ??????) ?????????????????????????????????????? HUB ?????????????????? HUB ?
?? LAN ?? LAN ??????????????????

SoftEther VPN ?????????? VPN ??????????????????1 ?? VPN Server ?????????? HUB ?????????????????? HUB ?????????????????
????????????????????????????? HUB ??????????VPN Server ?????????????? Ethernet ??????????????????????????????



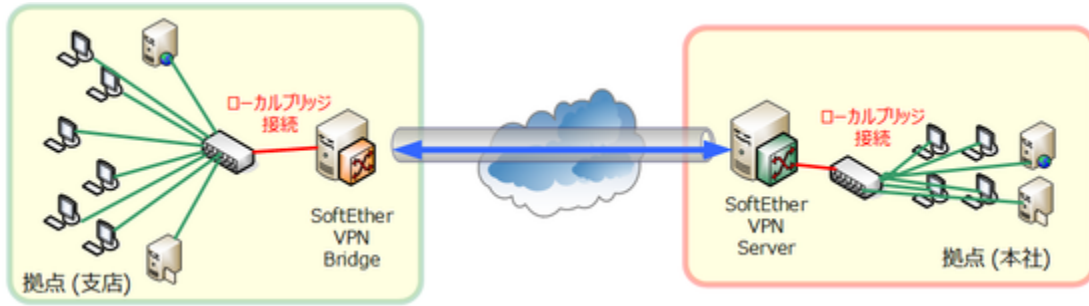
???????????????? LAN ?????????????? SoftEther VPN ??? LAN ???

?? LAN ?????? Windows ??? Linux ??????????????SoftEther VPN Client?????????????SoftEther VPN Client ??
 ?????????????????VPN ?????????? VPN Server ?????????????????SoftEther VPN Client ?????????????? LAN ?????????
 ?????????????????????????????????????? LAN ??????Windows ???
 ??? LAN ?????? 1 ?? LAN ?????????????????????? Ethernet ?????????????????????????????? TCP/IP ??????
 SoftEther VPN ?????????????? HUB ??????VPN ??????????????????????



?? LAN ??????????????

????????? HUB ???????? LAN ?????????????????????? HUB ???
LAN ??? 1 ???



SoftEther VPN ???????????

1.4.6 ??????? VPN

SoftEther VPN ??? 3 ???????????

- ??????? VPN
- ??????? VPN
- ?????? VPN

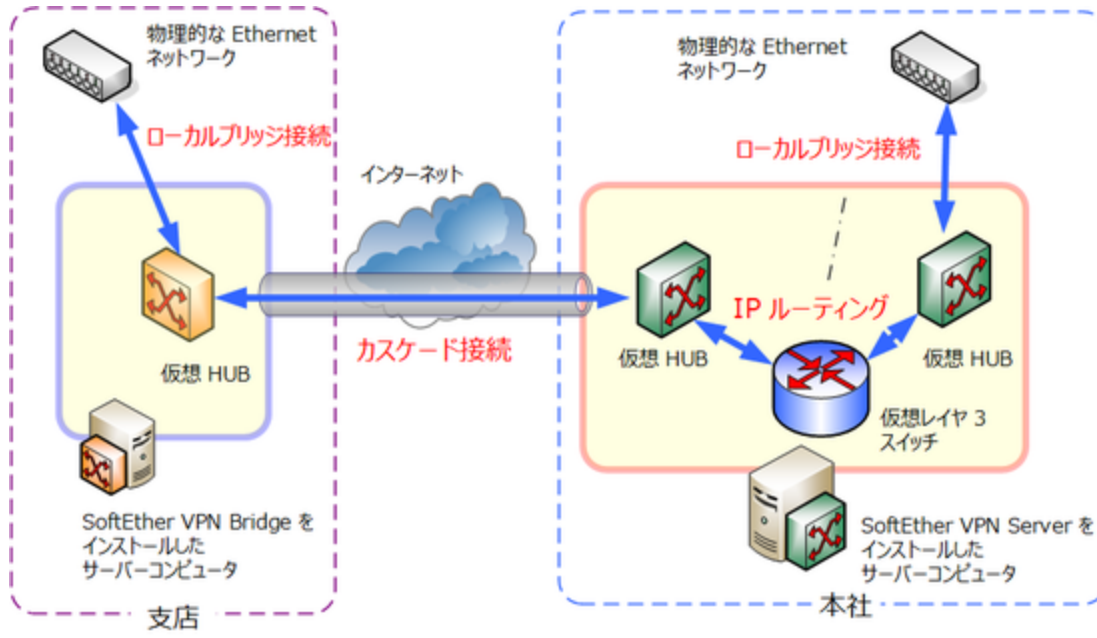
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10. VPN ???

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

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

??
10.3 ?????????? VPN ??? ???????????



????????? VPN