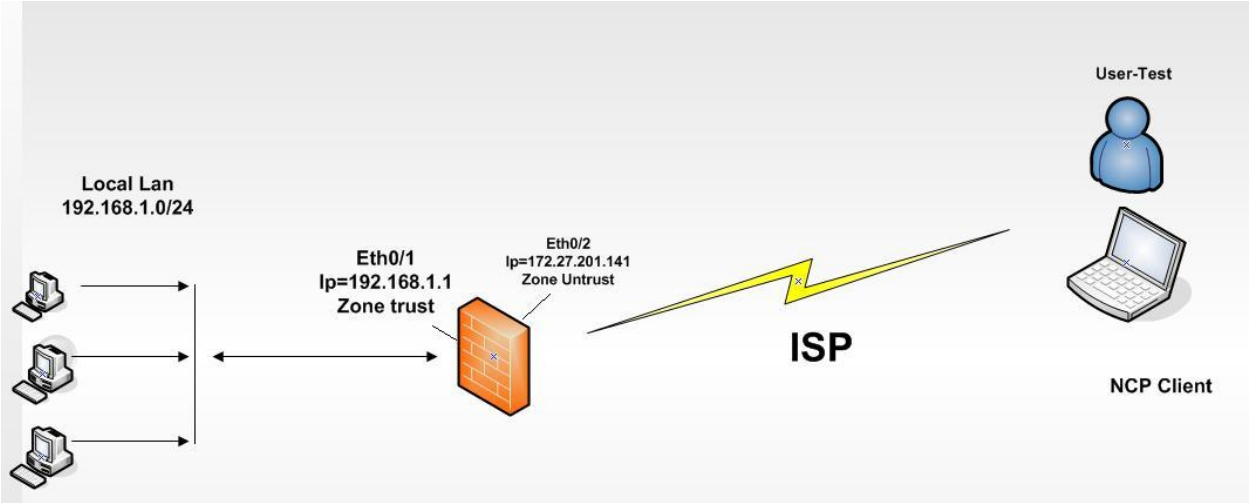
NCP Secure Entry Client Configuration With Certificates

This a simple configuration of the NCP Client connecting to a Juniper firewall with certificate Note that there are other possible configurations.

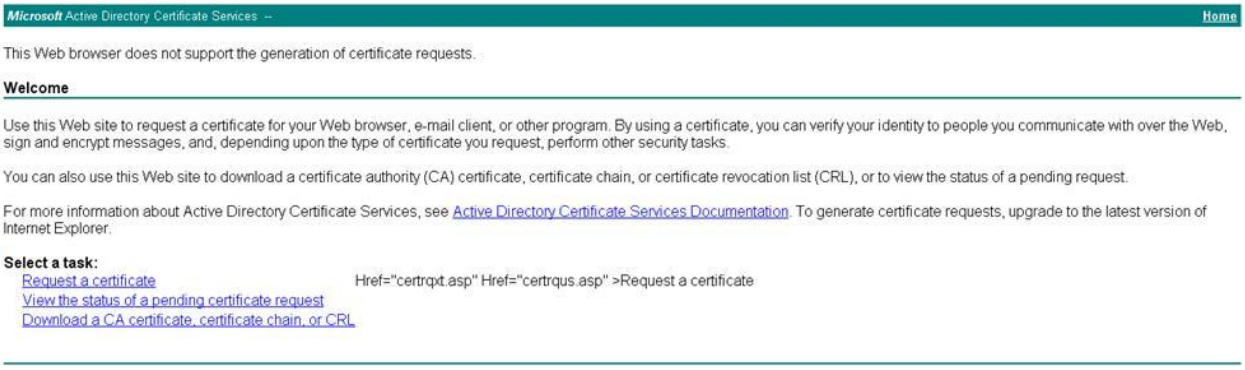
This is useful for those familiar with configuring NS Remote and are new to the NCP client.

Network diagram:



A. Firewall configuration

1. First of all go to ca server and download the ca server public certificate
2. Click on download ca certificate



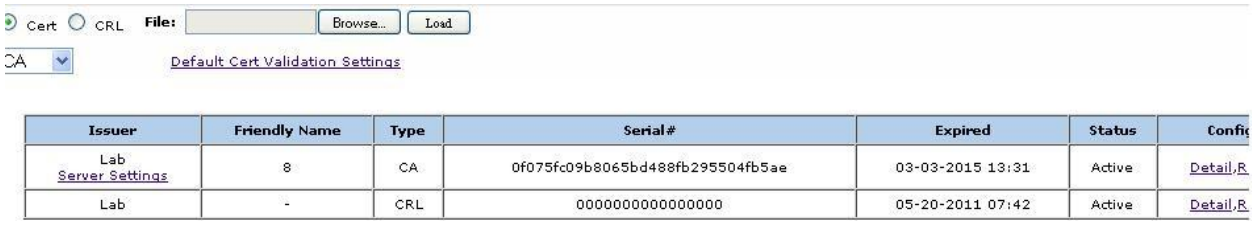
3. Then click on
    1. Download ca certificate and save it on your computer
    2. Downlad Latest base CRL and save it on your computer

4. Then open the web gui of the firewall and go to **objects->certificate**

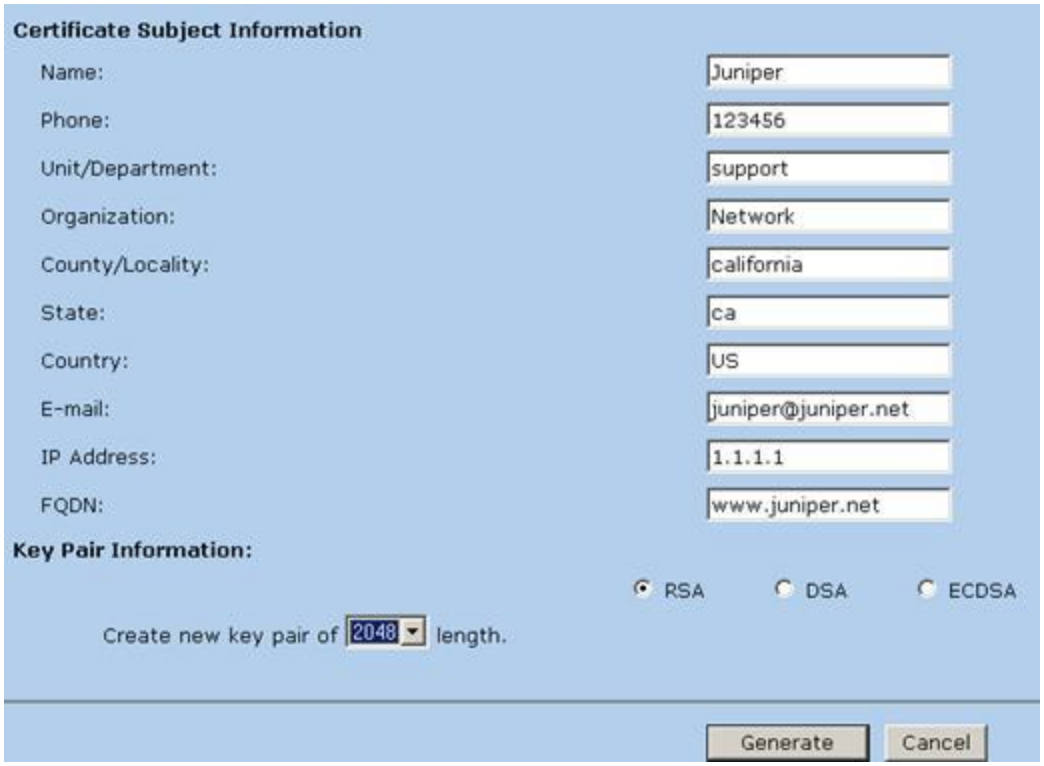
   Select Ca in the drop down and browse the ca certificate and hit on load

5. Now select the CRL option and load the ca certificate and hit on load

6. Both The CA and CRL certificate will be loaded in the firewall. Make sure status is active

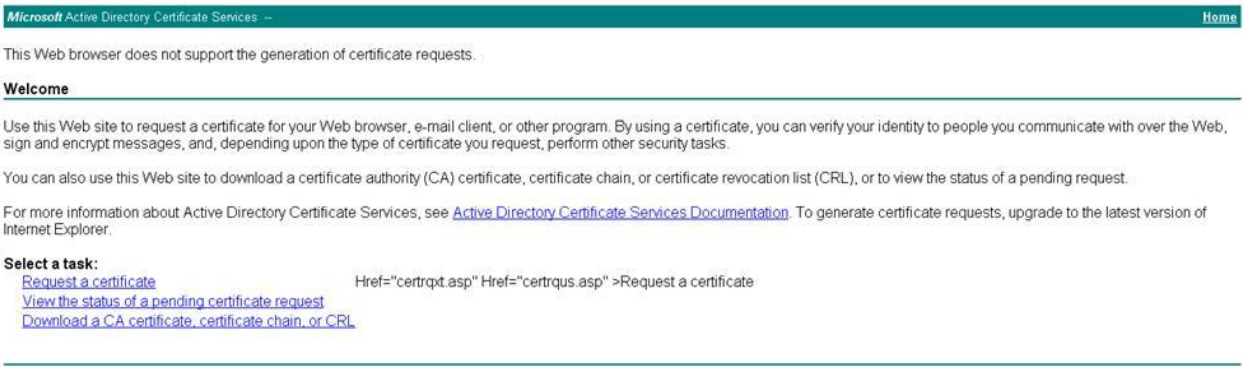


7. Now click on new and create a local certificate By giving the appropriate field as you wish and hit generate



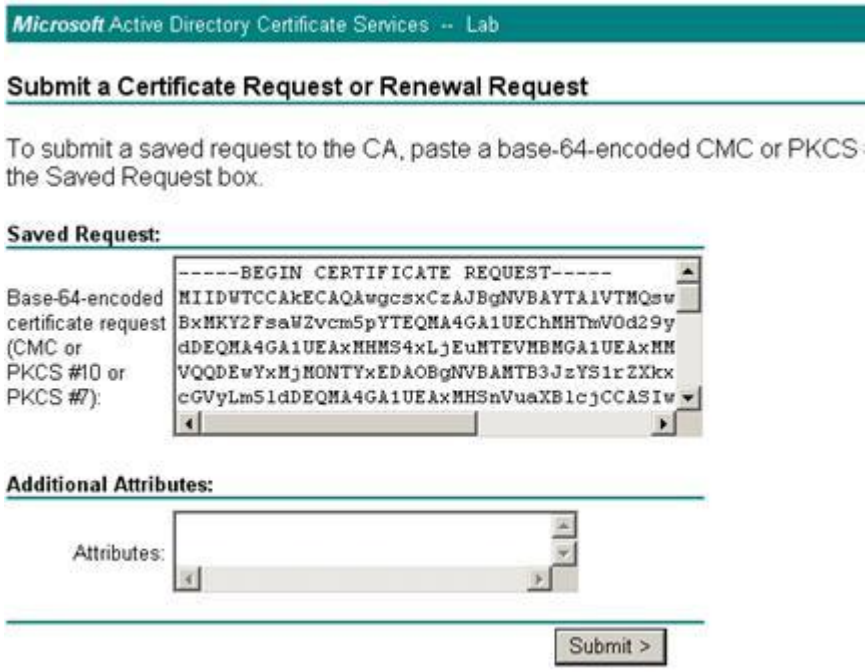
8. Copy the generated CSR

9. Now go to the ca server and click on request certificate

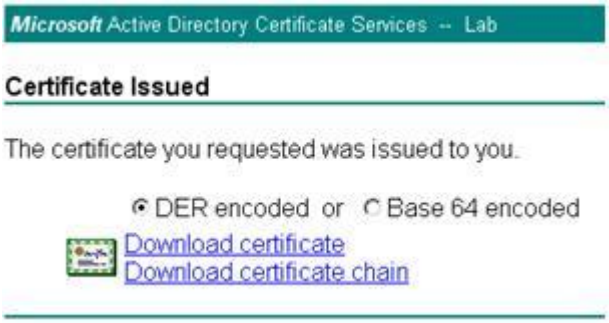


10. Than click on create and submit a request to this ca

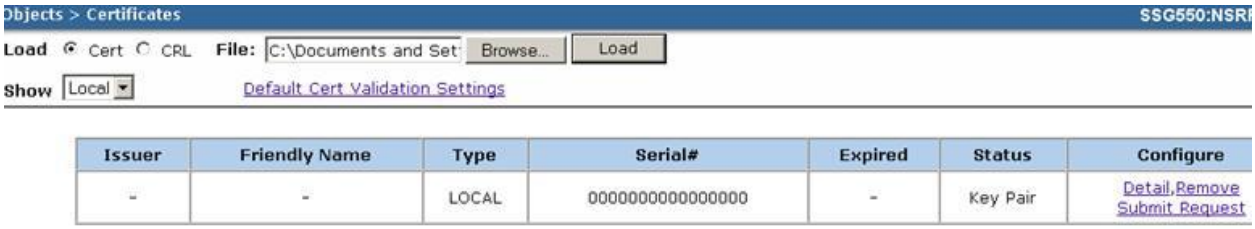
11. And paste the csr and hit on submit



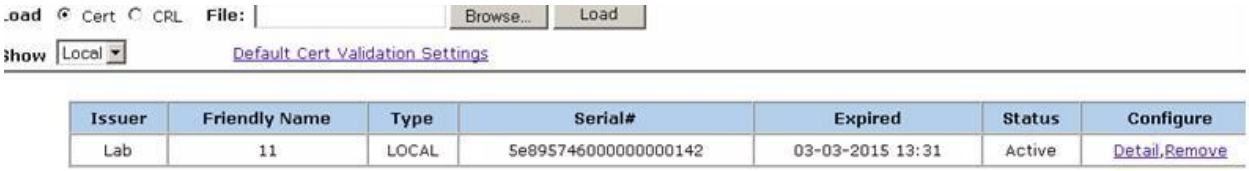
12. Download the certificate and save it



13. Go to the firewall browse the saved file and load this certificate

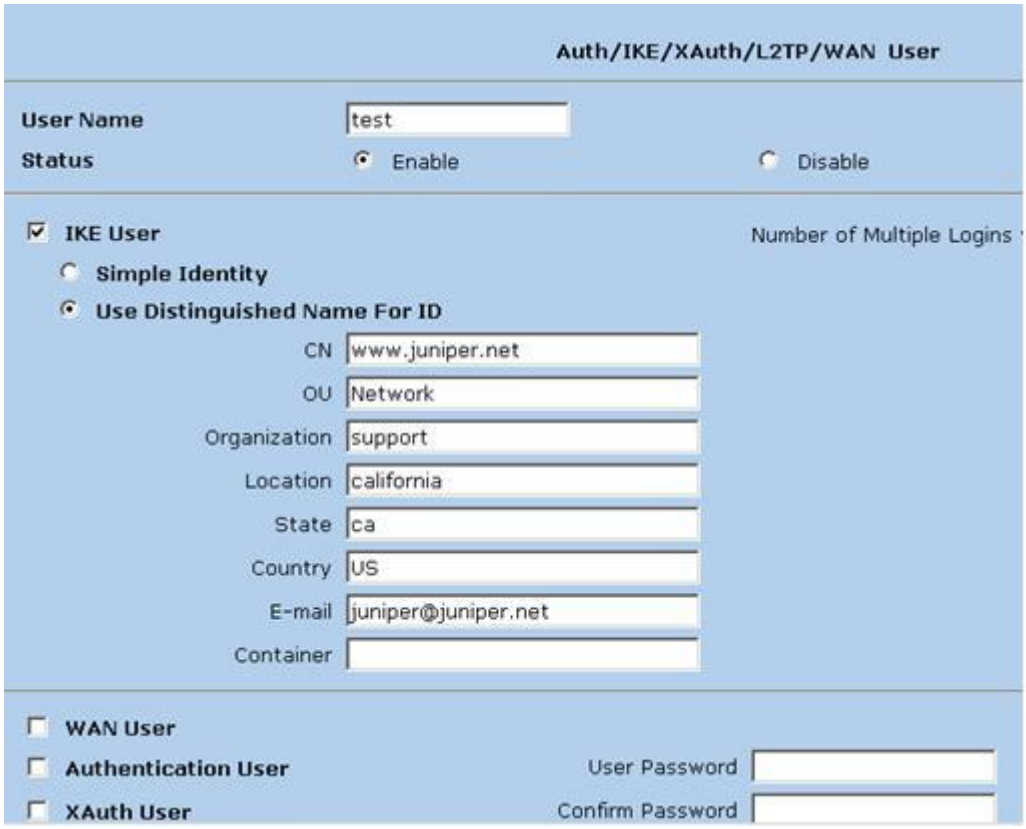


14. You will see this loaded certificate. Its status will be active

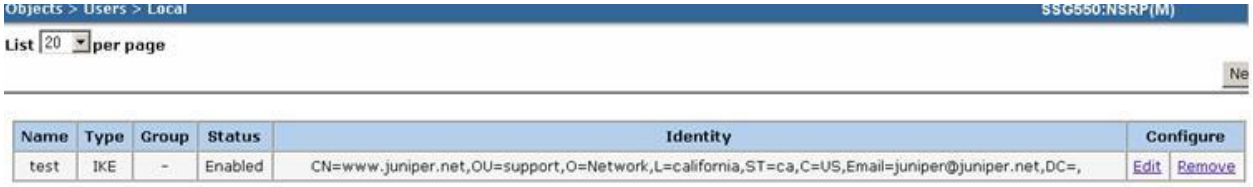


VPN CONFIGURATION

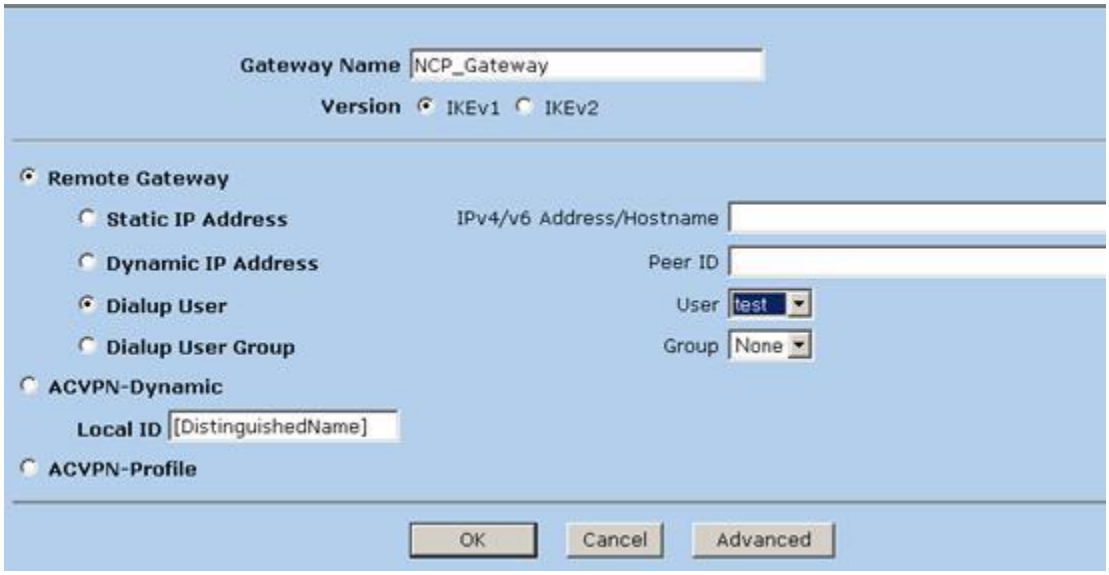
15. go to **objects->users->local** and create a new ike user for the ncp client to use
    Select the **Ike user** and select "**use distinguished name for id**" and give appropriate fields and hit ok



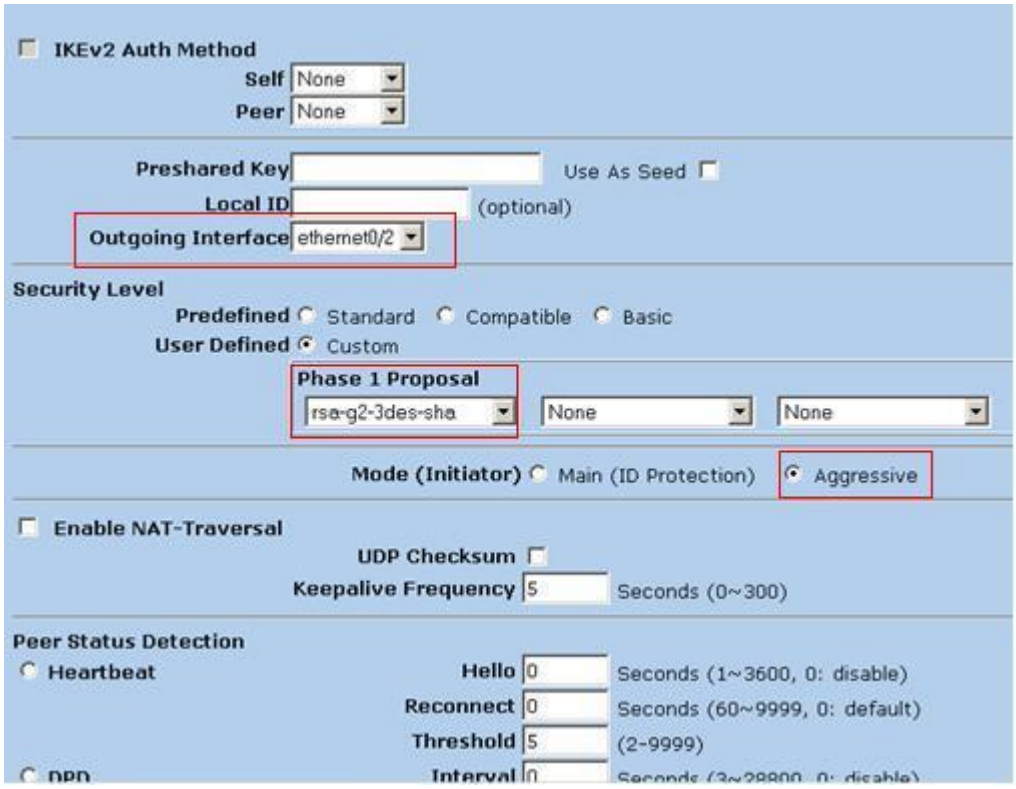
The IKE user will be created



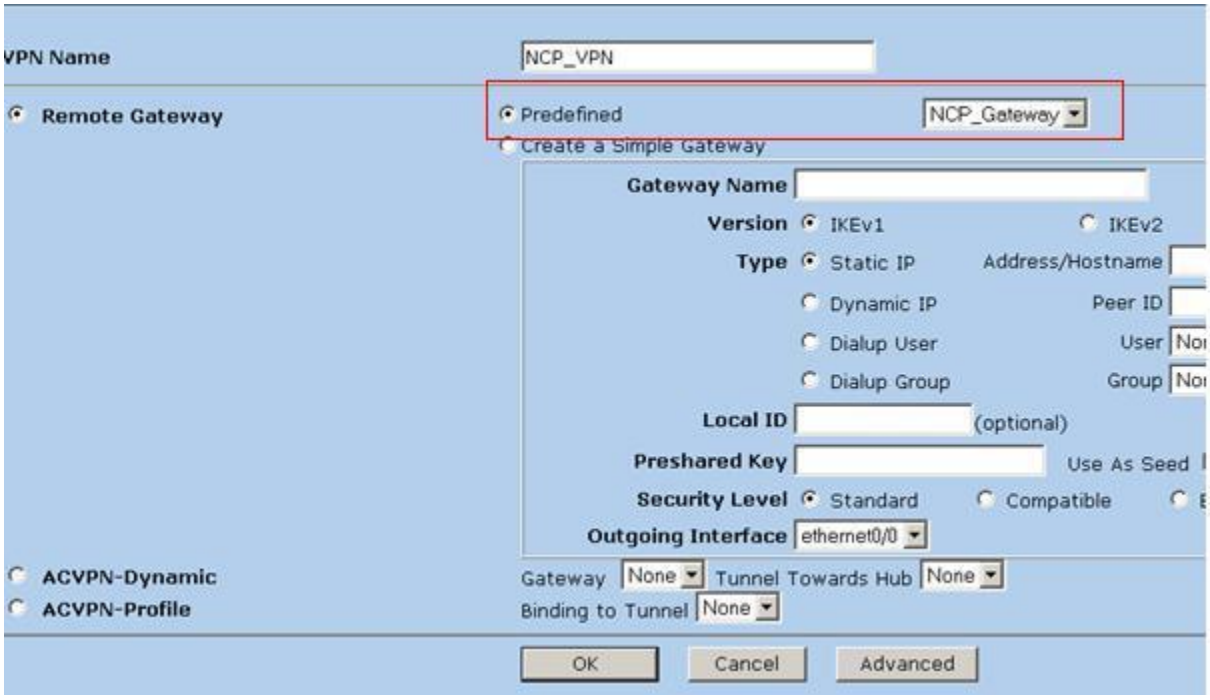
16. Now create a dial up vpn , go to **vpn-> autokey advanced->gateway** and click new and select the dialup user



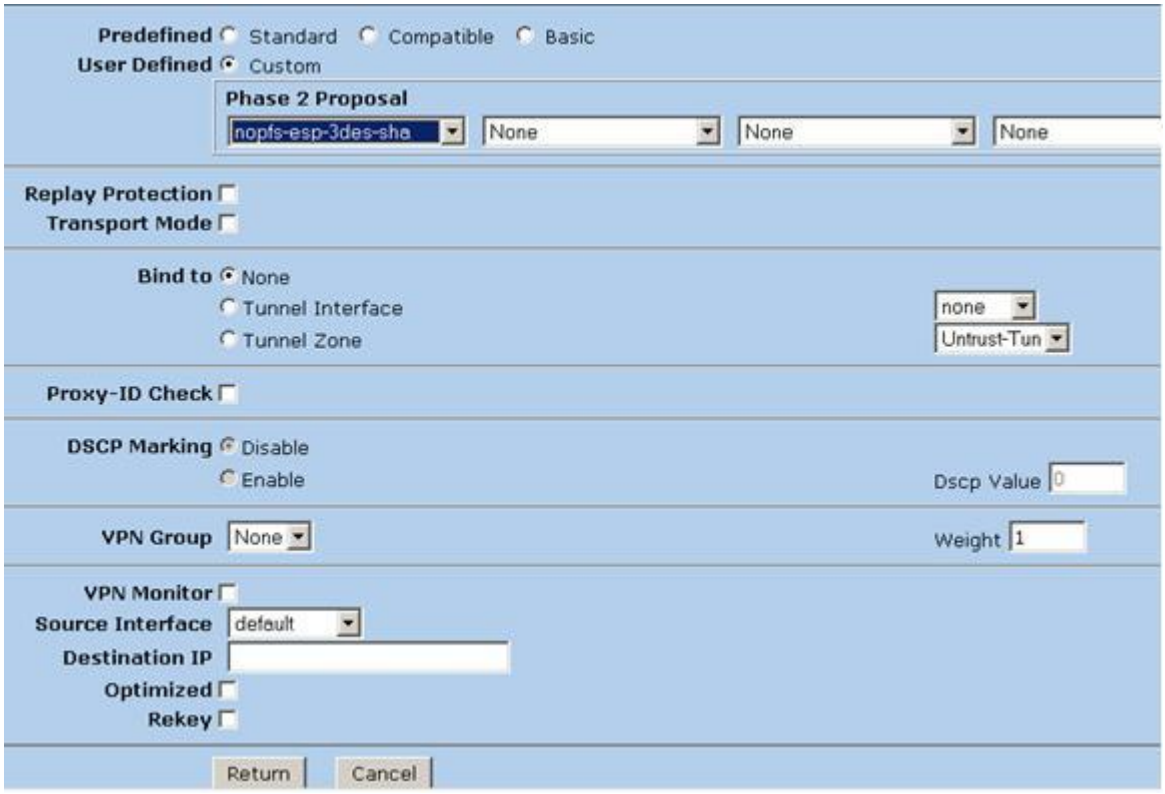
17. Hit on advance. **Don't give any preshared key**, select outgoing interface and proposals and mode as aggressive



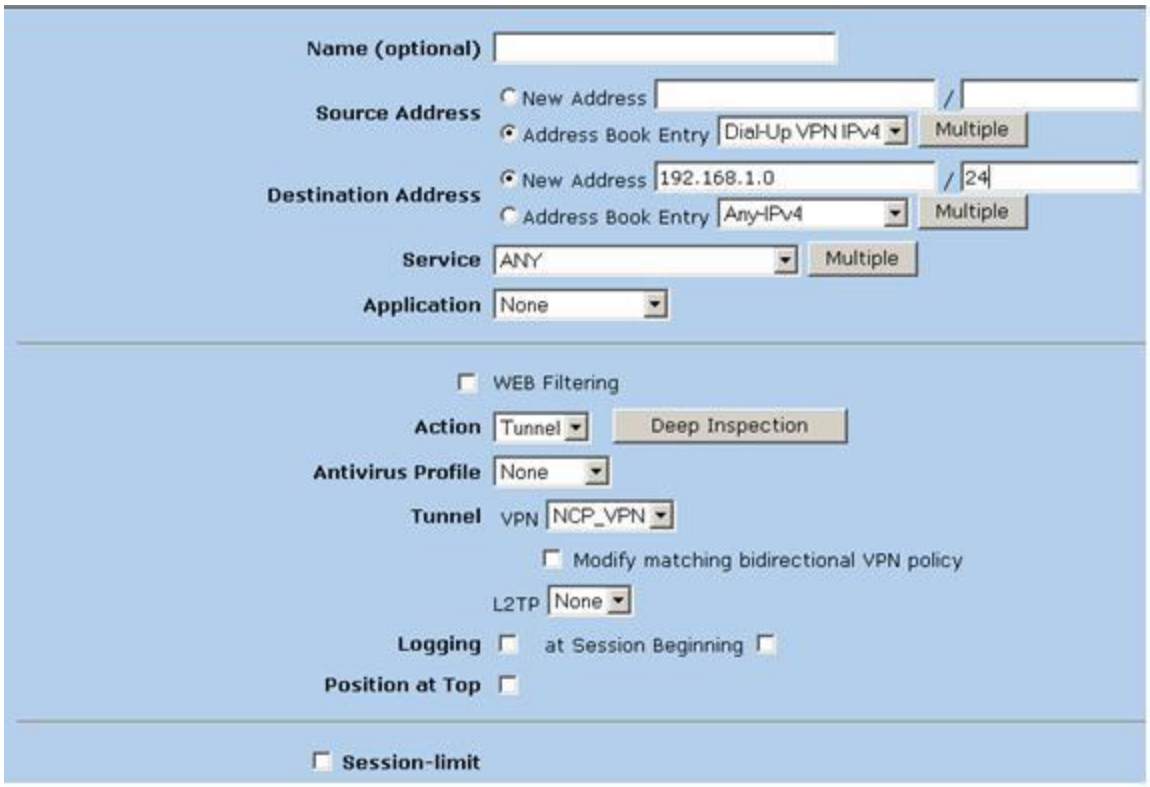
18. create the phase 2. Click on **vpn-> autokey ike -> new**
    Select the gateway and click on advance



19. Select the phase 2 proposals and hit return and ok



20. Now create a policy for the dial up vpn to access the local lan.

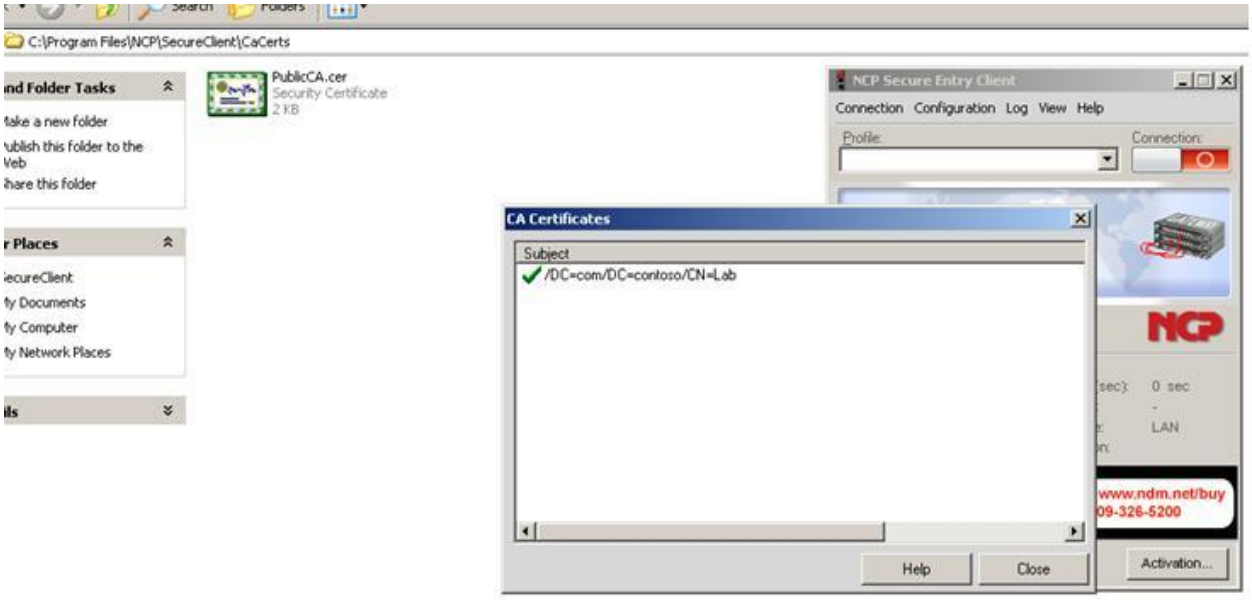


A. NCP configuration

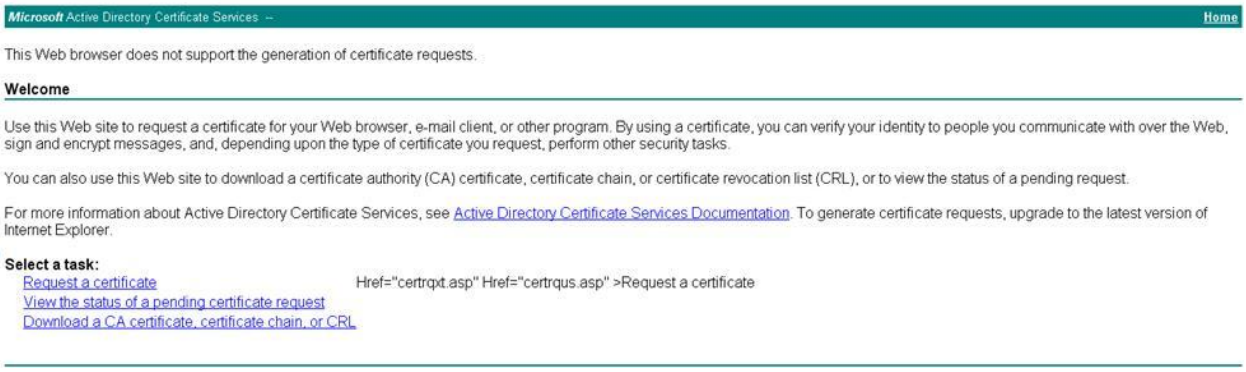
1. Save the ca server public certificate into the ncp ca certificates folder

Go to C:\Program Files\NCP\SecureClient\CaCerts
And paste the public ca certificate there

Now in NCP go to **connection-> display ca certificate** you must see the saved ca there which we pasted in ca cert folder

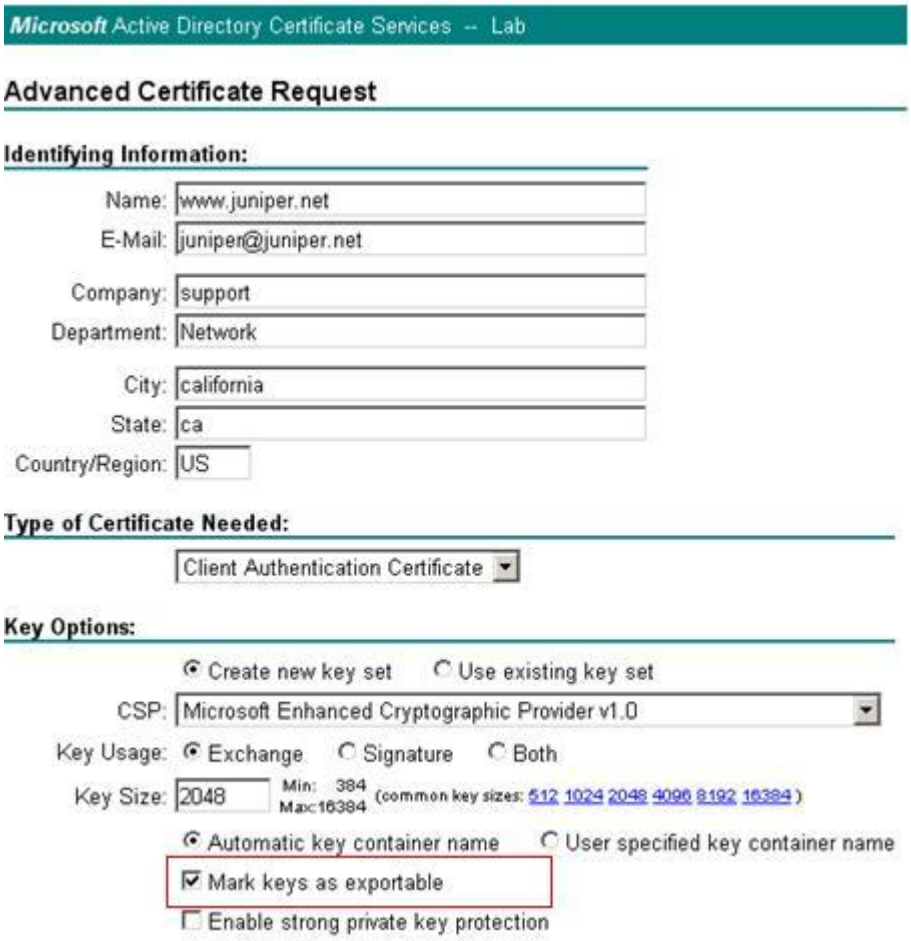


2. For the Local certificate for the NCP client go to the ca server and click on **request certificate**



3. Click create and sumbit a request to this ca

4. Create the certificate by Entering the fields, It should match with the firewall ike user "**test**" and make sure to check "**mark key as exportable**" option and submit .

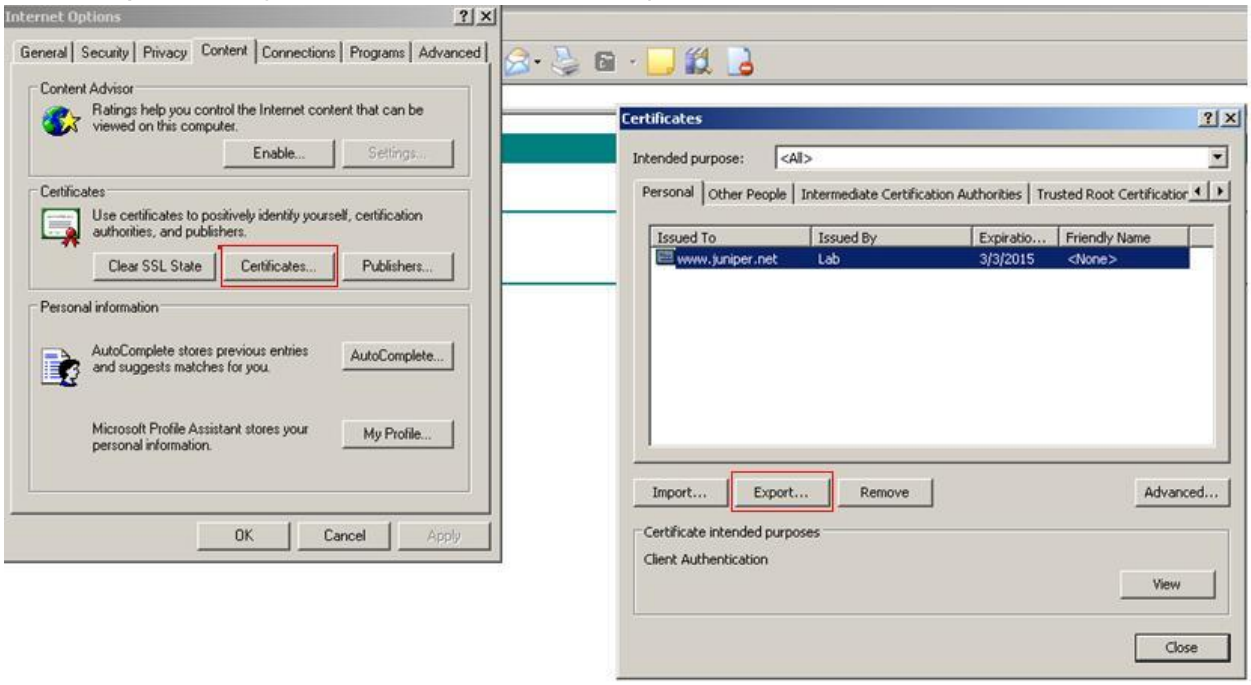


5. Then install the certificate

Click **Yes** for the prompt to install the certificate,

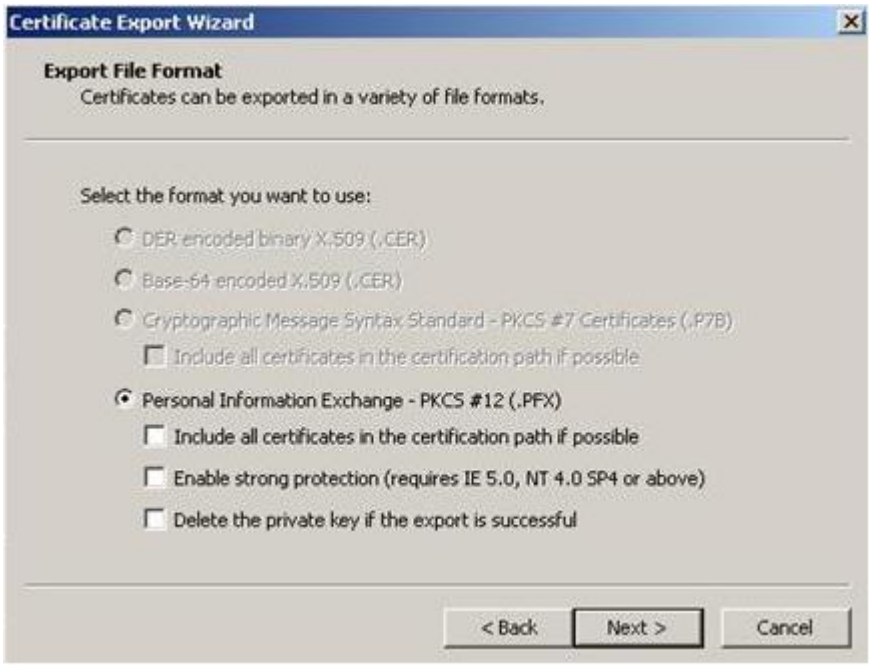
6. Make sure the certificate is installed successfully

7. In the CA Store (you can open it by internet explorer->tools-> internet option->content->certificate) select the generated certificate and chose Export



8. In the Certificate Export Wizard select "**Yes, export the private key**" and click next

9. Select "**Personal Information Exchange – PKCS #12**" and uncheck other box and hit next

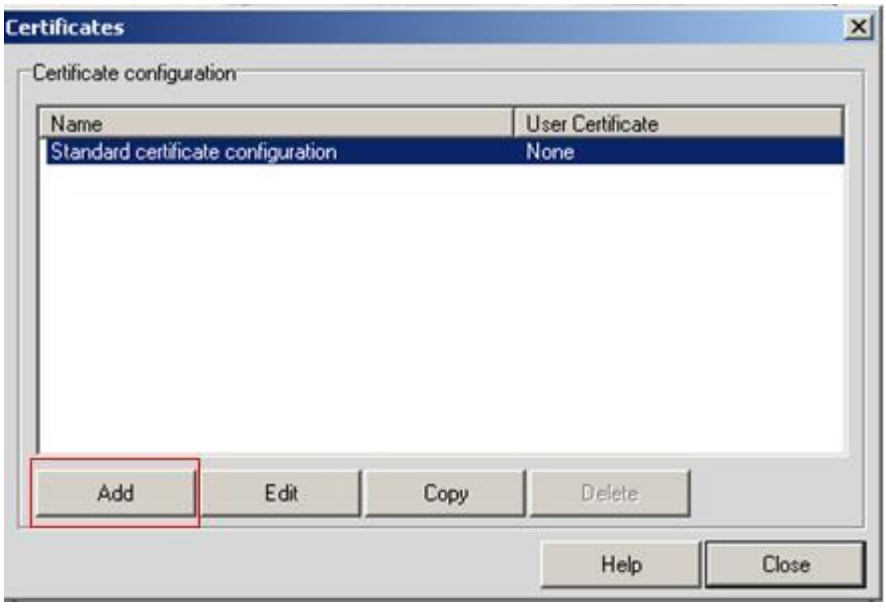


10. Enter the password e.g 12345678

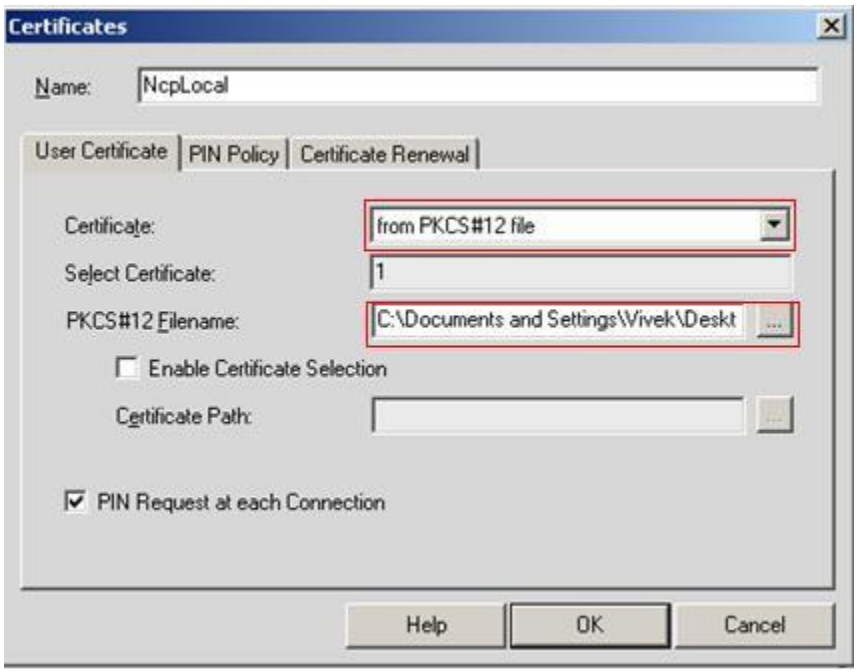
11. Click on next and save the file. The file will be saved as **".pfx"** extension and Complete the Wizard.

12. Locate the saved file and change the extension to **".p12"** for e.g from "filename.pfx" change it to "filename.p12"

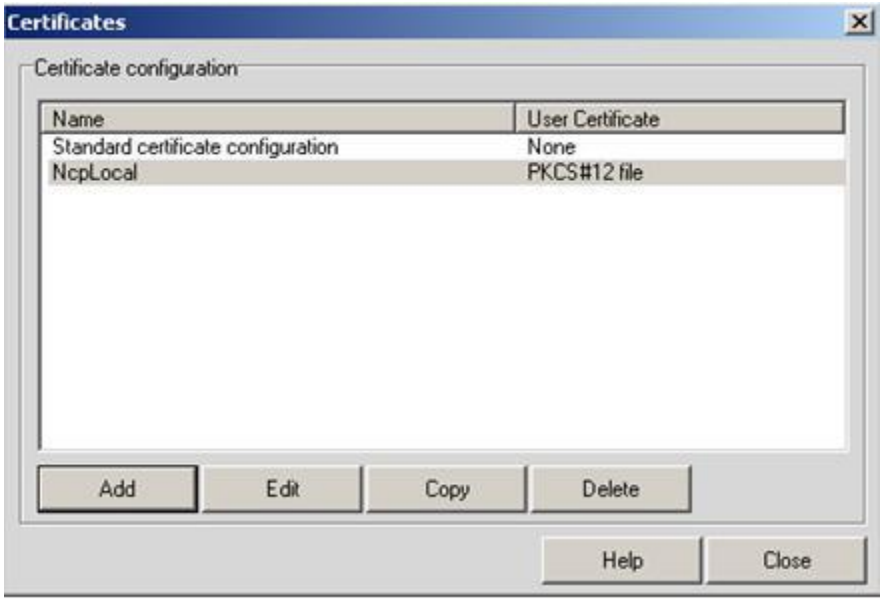
13. Then Import this certificate to NCP. In ncp client Go to **configuration-> certificate** and add



14. Give certificate name, select **from pkcs#12 in certificate**, browse the **".p12**" file which we exported and enable pin request at each connection (pin request is optional) and hit ok

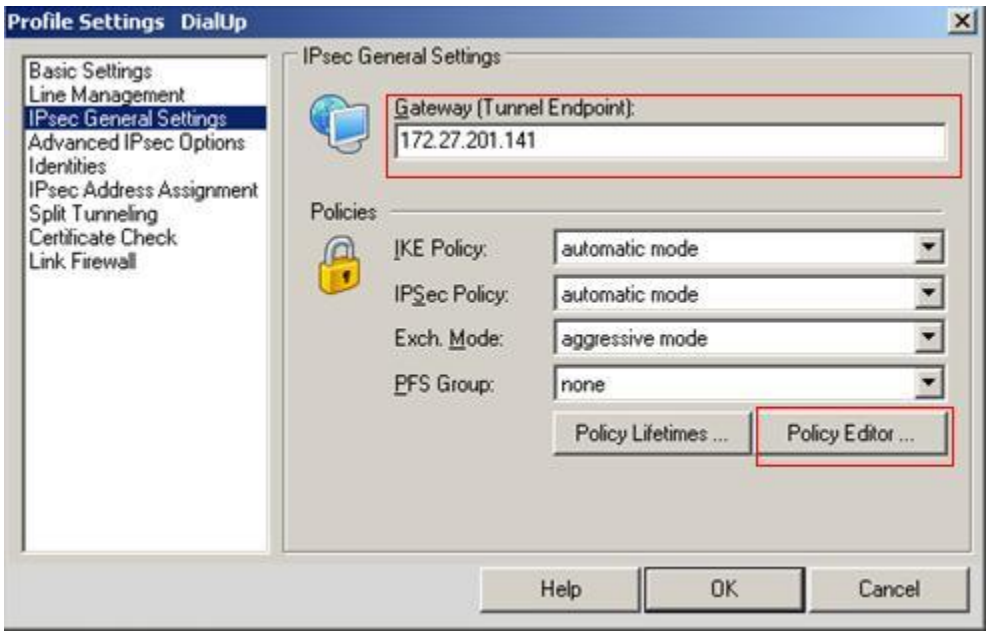


15. The certificate will be imported in NCP

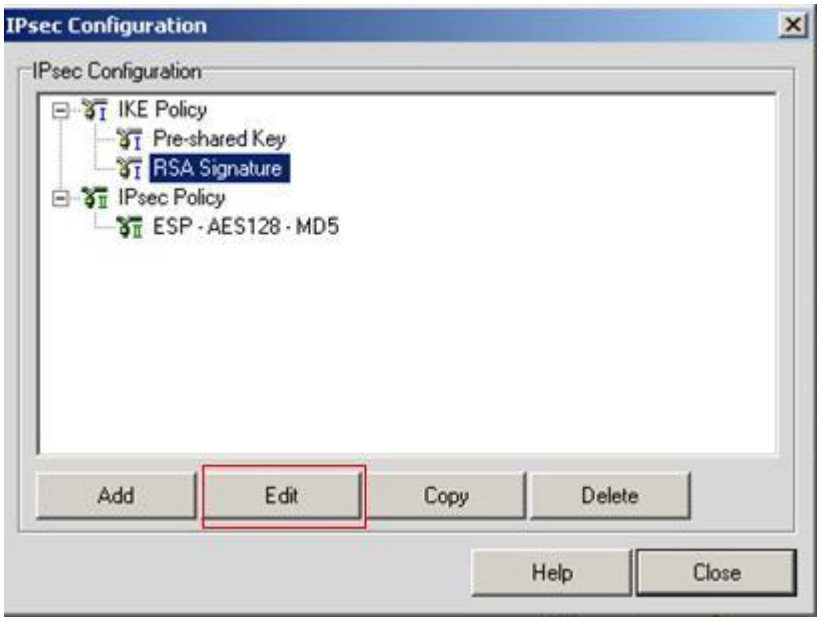


16. Now configure the vpn for ncp client, Give the profile name

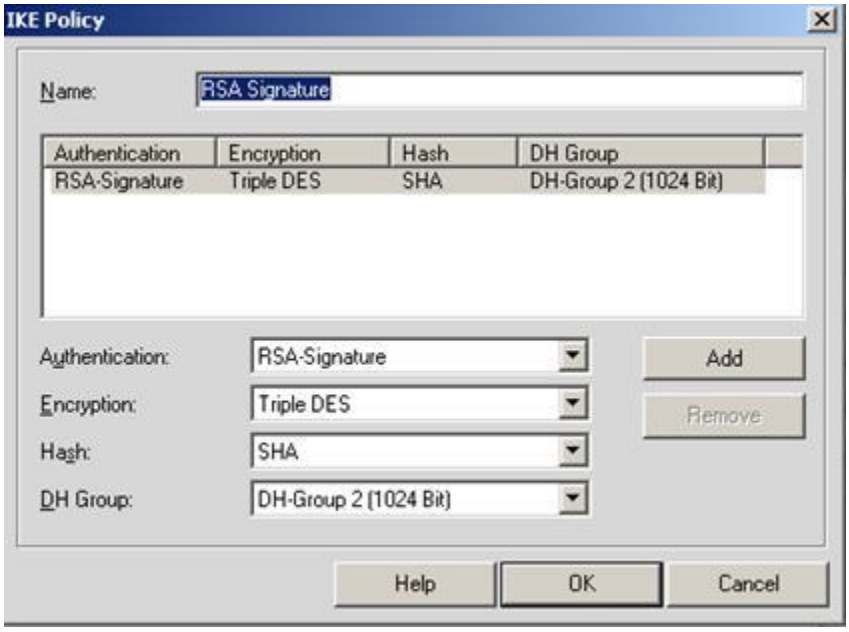
17. Under IPsec general setting give the gateway ip of the firewall and click policy editor



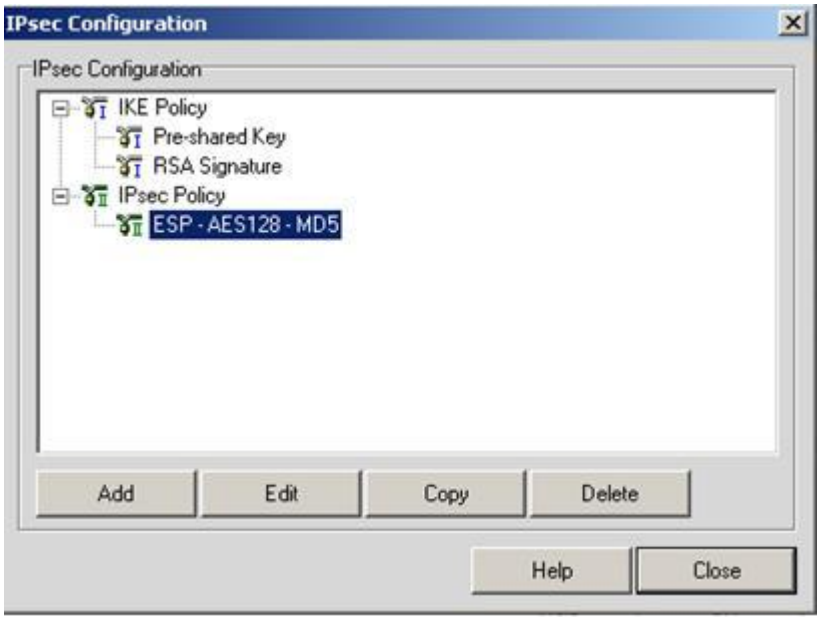
18. Select rsa signature and edit it



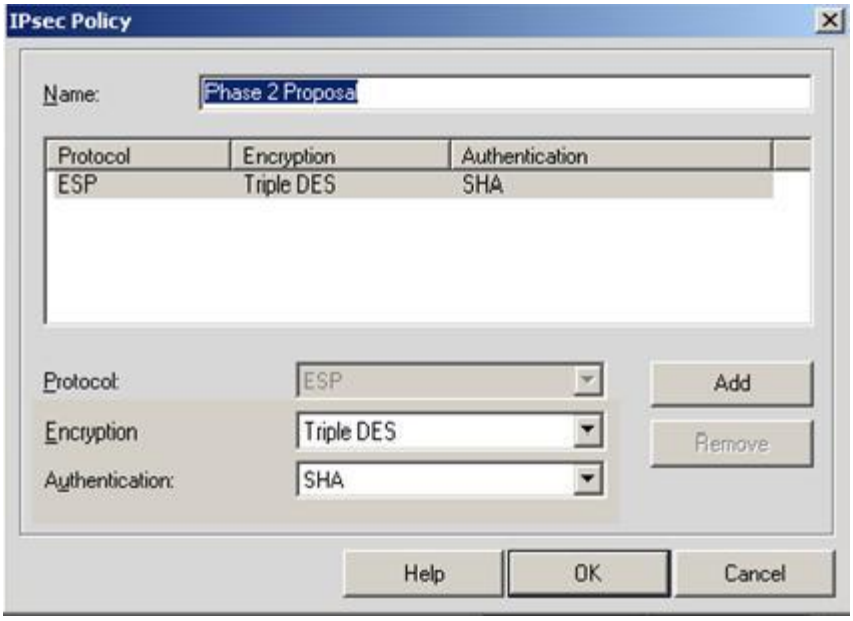
19. Select the proposal given in the phase 1 of firewall and hit ok



20. Now edit the ipsec policy(phase 2 proposal)

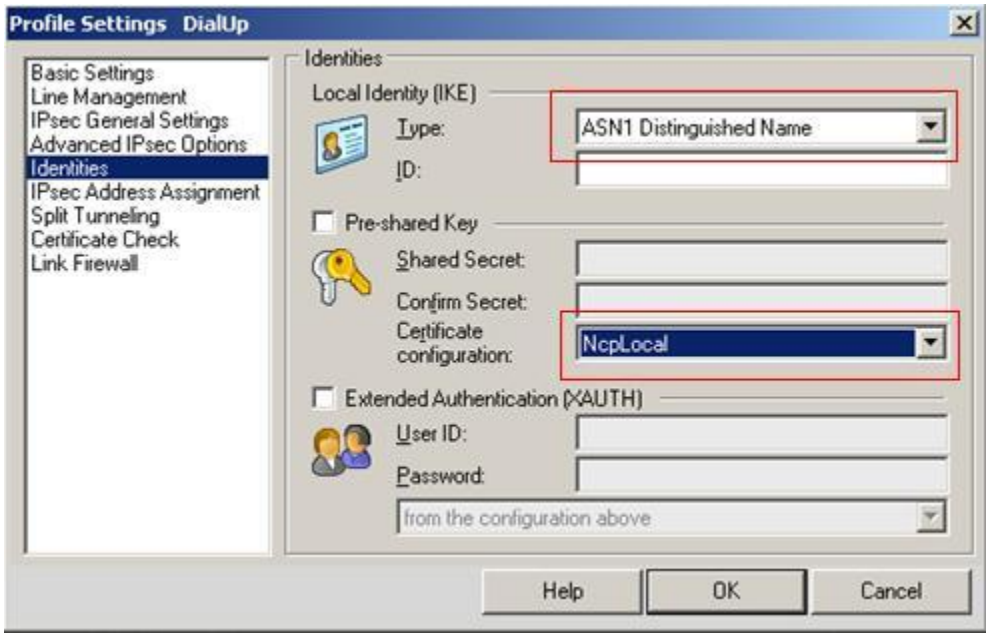


21. Give the proposal as given in the phase 2 of the firewall and hit ok

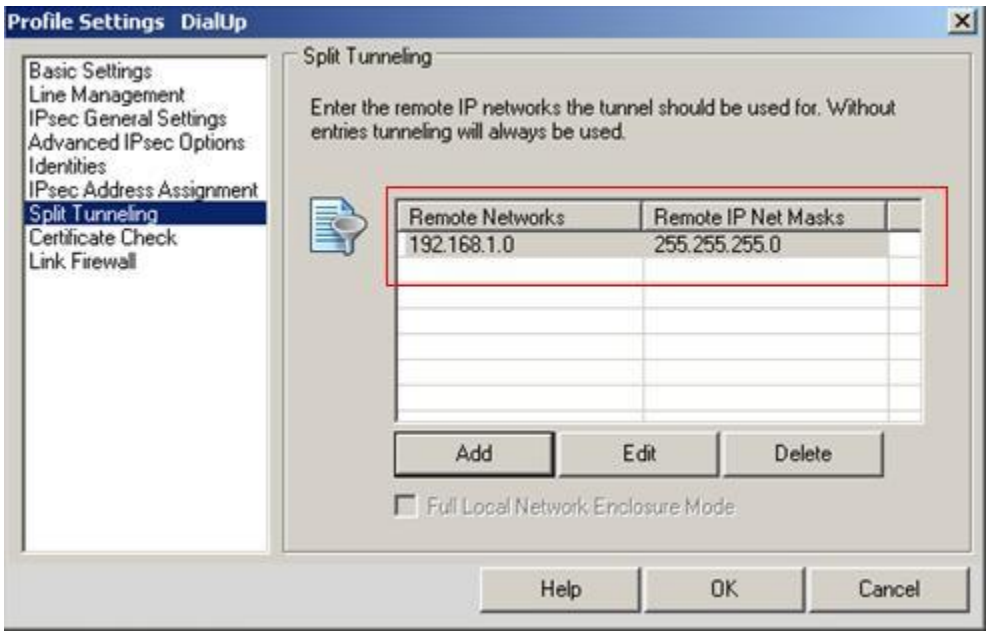


22. Select the appropriate settings like proposals, mode and pfs as per firewall settings

23. Now under Identities select **ASN1 distinguished name** and certificate as the local imported certificate



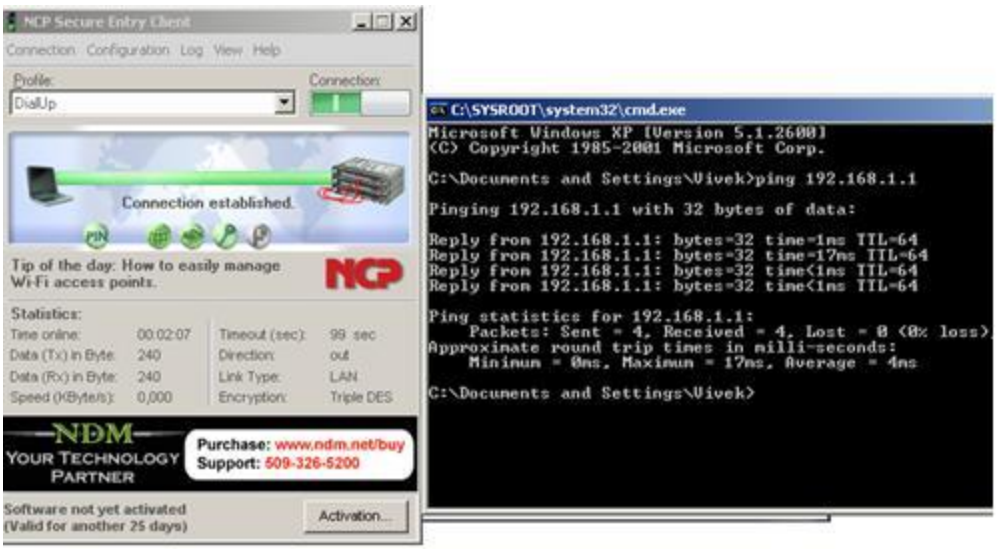
24. Then click on split tunneling and add the remote subnet which you need to access



Then hit on ok and connect the ncp client

25. It will prompt for pin, Just enter the pin which we used (12345678)

26. The connection will be established



Basic Troubleshooting

You can run the following command

Debug pki detail

Debug ike detail

And can verify the output of the connection

SSG550-> get db st

2011-05-17 00:00:13 : IKE<172.27.199.207> ike packet, len 641, action 1

2011-05-17 00:00:13 : IKE<172.27.199.207> Catcher: received 613 bytes from socket.

2011-05-17 00:00:13 : IKE<172.27.199.207> ****** Recv packet if <ethernet0/2> of vsys <Root> ******

2011-05-17 00:00:13 : IKE<172.27.199.207> Catcher: get 613 bytes. src port 500

2011-05-17 00:00:13 : IKE<0.0.0.0 > ISAKMP msg: len 613, nxp 1[SA], exch 4[AG], flag 00

2011-05-17 00:00:13 : IKE<172.27.199.207 > Recv : [SA] [KE] [NONCE] [ID] [CERT-REQ] [VID] [VID] [VID] [VID]

2011-05-17 00:00:13 : [VID] [VID] [VID] [VID] [VID] [VID]

2011-05-17 00:00:13 : valid id checking, id type:ASN1_DN, len:156. (We have received the asn1_dn from the NCP client)

2011-05-17 00:00:13 : IKE<0.0.0.0 > Validate (585): SA/52 KE/132 NONCE/44 ID/156 CERT-REQ..;/5 VID/12 VID/20 VID/20

2011-05-17 00:00:13 : IKE<172.27.199.207> Receive Id (type=DN) in AG mode, retrieve DN=Email=juniper@juniper.net,CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US , idlen = 90 (We have received the field configured on the NCP client local certificate, Next steps firewall is matching them with the ike user “test” configured field)

2011-05-17 00:00:13 : IKE<0.0.0.0 > peer dn has 7 elements.

2011-05-17 00:00:13 : IKE<0.0.0.0 > compare user id<1>.

2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: input<CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US,Email=juniper@juniper.net,DC=,>

2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: <0><CN=www.juniper.net>.

2011-05-17 00:00:13 : get_dn_element_type_mask: mask<00000001>

2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: got <0><8bfff688><CN=www.juniper.net>.

2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: <1><OU=Network>.

2011-05-17 00:00:13 : get_dn_element_type_mask: mask<00000002>

2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: got <1><8bfff69b><OU=Network>.

2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: <2><O=support>.
2011-05-17 00:00:13 : get_dn_element_type_mask: mask<00000004>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: got <2><8bfff6a6><O=support>.
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: <3><L=california>.
2011-05-17 00:00:13 : get_dn_element_type_mask: mask<00000008>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: got <3><8bfff6b0><L=california>.
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: <4><ST=ca>.
2011-05-17 00:00:13 : get_dn_element_type_mask: mask<00000010>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: got <4><8bfff6bd><ST=ca>.
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: <5><C=US>.
2011-05-17 00:00:13 : get_dn_element_type_mask: mask<00000020>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: got <5><8bfff6c3><C=US>.
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: <6><Email=juniper@juniper.net>.
2011-05-17 00:00:13 : get_dn_element_type_mask: mask<00000040>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: got <6><8bfff6c8><Email=juniper@juniper.net>.
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: <7><DC=>.
2011-05-17 00:00:13 : get_dn_element_type_mask: remaining after = bad for <DC=>.
2011-05-17 00:00:13 : get_dn_element_type_mask: mask<ffffffff>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: got <7><00000000><empty>.
2011-05-17 00:00:13 : normalize_one_elem: input<CN=www.juniper.net>
2011-05-17 00:00:13 : normalize_one_elem: content<www.juniper.net>
2011-05-17 00:00:13 : normalize_one: A temp<CN=www.juniper.net,> in_len<15>
2011-05-17 00:00:13 : normalize_one: temp<CN=www.juniper.net,> len<19>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: ind<0> elem<CN=www.juniper.net,>len<19>
2011-05-17 00:00:13 : normalize_one_elem: input<OU=Network>
2011-05-17 00:00:13 : normalize_one_elem: content<Network>
2011-05-17 00:00:13 : normalize_one: A temp<OU=Network,> in_len<7>
2011-05-17 00:00:13 : normalize_one: temp<OU=Network,> len<11>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: ind<1>
elem<CN=www.juniper.net,OU=Network,>len<30>
2011-05-17 00:00:13 : normalize_one_elem: input<O=support>
2011-05-17 00:00:13 : normalize_one_elem: content<support>
2011-05-17 00:00:13 : normalize_one: A temp<O=support,> in_len<7>
2011-05-17 00:00:13 : normalize_one: temp<O=support,> len<10>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: ind<2>
elem<CN=www.juniper.net,OU=Network,O=support,>len<40>
2011-05-17 00:00:13 : normalize_one_elem: input<L=california>
2011-05-17 00:00:13 : normalize_one_elem: content<california>
2011-05-17 00:00:13 : normalize_one: A temp<L=california,> in_len<10>
2011-05-17 00:00:13 : normalize_one: temp<L=california,> len<13>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: ind<3>
elem<CN=www.juniper.net,OU=Network,O=support,L=california,>len<53>
2011-05-17 00:00:13 : normalize_one_elem: input<ST=ca>
2011-05-17 00:00:13 : normalize_one_elem: content<ca>
2011-05-17 00:00:13 : normalize_one: A temp<ST=ca,> in_len<2>
2011-05-17 00:00:13 : normalize_one: temp<ST=ca,> len<6>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: ind<4>
elem<CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,>len<59>
2011-05-17 00:00:13 : normalize_one_elem: input<C=US>
2011-05-17 00:00:13 : normalize_one_elem: content<US>
2011-05-17 00:00:13 : normalize_one: A temp<C=US,> in_len<2>

2011-05-17 00:00:13 : normalize_one: temp<C=US,> len<5>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: ind<5>
elem<CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US,>len<64>
2011-05-17 00:00:13 : normalize_one_elem: input<Email=juniper@juniper.net>
2011-05-17 00:00:13 : normalize_one_elem: content<juniper@juniper.net>
2011-05-17 00:00:13 : normalize_one: A temp<Email=juniper@juniper.net,> in_len<19>
2011-05-17 00:00:13 : normalize_one: temp<Email=juniper@juniper.net,> len<26>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: ind<6>
elem<CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US,Email=juniper@juniper.net,>len<90
>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id: ind<-1>
elem<CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US,Email=juniper@juniper.net,DC=,>le
n<94>
2011-05-17 00:00:13 : normalize_user_wildcard_dn_id:
result<CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US,Email=juniper@juniper.net,DC=,>l
en<94>ret<0>
2011-05-17 00:00:13 : IKE<0.0.0.0 > ct:CN=www.juniper.net
2011-05-17 00:00:13 : IKE<0.0.0.0 > ct:OU=Network
2011-05-17 00:00:13 : IKE<0.0.0.0 > ct:O=support
2011-05-17 00:00:13 : IKE<0.0.0.0 > ct:L=california
2011-05-17 00:00:13 : IKE<0.0.0.0 > ct:ST=ca
2011-05-17 00:00:13 : IKE<0.0.0.0 > ct:C=US
2011-05-17 00:00:13 : IKE<0.0.0.0 > ct:Email=juniper@juniper.net
2011-05-17 00:00:13 : IKE<0.0.0.0 > count_num_required_elems: ret num elem<7>. (7 fields configured on the ike user "test" are matched with 7 field configured on the NCP local certificate)
2011-05-17 00:00:13 : IKE<0.0.0.0 > no container identity requirement.
2011-05-17 00:00:13 : IKE<0.0.0.0 > wild card identity
matched<CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US,Email=juniper@juniper.net,DC=
,>.
2011-05-17 00:00:13 : IKE<0.0.0.0 > ID match found. (Match is successful for user test)
2011-05-17 00:00:13 : IKE<0.0.0.0 > user id found<1>.
2011-05-17 00:00:13 : IKE<172.27.199.207> Found peer entry (NCP_VPN) from 172.27.199.207.
2011-05-17 00:00:13 : responder create sa: 172.27.199.207->172.27.201.141
2011-05-17 00:00:13 : init p1sa, pidt = 0x0
2011-05-17 00:00:13 : change peer identity for p1 sa, pidt = 0x0
2011-05-17 00:00:13 : IKE<0.0.0.0 > peer_identity_create_with_uid: uid<0>
2011-05-17 00:00:13 : IKE<0.0.0.0 > create peer identity 0x143f4e84
2011-05-17 00:00:13 : IKE<0.0.0.0 > peer_identity_add_to_peer: num entry before add <1>
2011-05-17 00:00:13 : IKE<0.0.0.0 > peer_identity_add_to_peer: num entry after add <2>
2011-05-17 00:00:13 : peer identity 143f4e84 created.
2011-05-17 00:00:13 : IKE<0.0.0.0 > EDIPI disabled
2011-05-17 00:00:13 : IKE<172.27.199.207> getProfileFromP1Proposal->
2011-05-17 00:00:13 : IKE<172.27.199.207> find profile[0]=<00000005 00000002 00000003 00000002> for p1
proposal (id 11), xauth(0)
2011-05-17 00:00:13 : IKE<172.27.199.207> responder create sa: 172.27.199.207->172.27.201.141
2011-05-17 00:00:13 : IKE<172.27.199.207> Phase 1: Responder starts AGGRESSIVE mode negotiations.
2011-05-17 00:00:13 : IKE<172.27.199.207> AG in state OAK_AG_NOSTATE.
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [VID]:
2011-05-17 00:00:13 : IKE<172.27.199.207 > Vendor ID:
2011-05-17 00:00:13 : da 8e 93 78 80 01 00 00
2011-05-17 00:00:13 : IKE<172.27.199.207> receive unknown vendor ID payload

2011-05-17 00:00:13 : IKE<172.27.199.207> Process [VID]:
2011-05-17 00:00:13 : IKE<172.27.199.207 > Vendor ID:
2011-05-17 00:00:13 : 7d 94 19 a6 53 10 ca 6f 2c 17 9d 92 15 52 9d 56
2011-05-17 00:00:13 : IKE<172.27.199.207> rcv non-NAT-Traversal VID payload.
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [VID]:
2011-05-17 00:00:13 : IKE<172.27.199.207 > Vendor ID:
2011-05-17 00:00:13 : 90 cb 80 91 3e bb 69 6e 08 63 81 b5 ec 42 7b 1f
2011-05-17 00:00:13 : IKE<172.27.199.207> rcv NAT-Traversal VID payload (draft-ietf-ipsec-nat-t-ike-02).
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [VID]:
2011-05-17 00:00:13 : IKE<172.27.199.207 > Vendor ID:
2011-05-17 00:00:13 : 44 85 15 2d 18 b6 bb cd 0b e8 a8 46 95 79 dd cc
2011-05-17 00:00:13 : IKE<172.27.199.207> rcv NAT-Traversal VID payload (draft-ietf-ipsec-nat-t-ike-00).
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [VID]:
2011-05-17 00:00:13 : IKE<172.27.199.207 > Vendor ID:
2011-05-17 00:00:13 : 4a 13 1c 81 07 03 58 45 5c 57 28 f2 0e 95 45 2f
2011-05-17 00:00:13 : IKE<172.27.199.207> rcv non-NAT-Traversal VID payload.
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [VID]:
2011-05-17 00:00:13 : IKE<172.27.199.207 > Vendor ID:
2011-05-17 00:00:13 : af ca d7 13 68 a1 f1 c9 6b 86 96 fc 77 57 01 00
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [VID]:
2011-05-17 00:00:13 : IKE<172.27.199.207 > Vendor ID:
2011-05-17 00:00:13 : eb 4c 1b 78 8a fd 4a 9c b7 73 0a 68 d5 6d 08 8b
2011-05-17 00:00:13 : IKE<172.27.199.207> rcv non-NAT-Traversal VID payload.
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [VID]:
2011-05-17 00:00:13 : IKE<172.27.199.207 > Vendor ID:
2011-05-17 00:00:13 : c6 1b ac a1 f1 a6 0c c1 08 00 00 00 00 00 00 00
2011-05-17 00:00:13 : IKE<172.27.199.207> rcv non-NAT-Traversal VID payload.
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [VID]:
2011-05-17 00:00:13 : IKE<172.27.199.207 > Vendor ID:
2011-05-17 00:00:13 : 40 48 b7 d5 6e bc e8 85 25 e7 de 7f 00 d6 c2 d3
2011-05-17 00:00:13 : c0 00 00 00
2011-05-17 00:00:13 : IKE<172.27.199.207> receive unknown vendor ID payload
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [VID]:
2011-05-17 00:00:13 : IKE<172.27.199.207 > Vendor ID:
2011-05-17 00:00:13 : 12 f5 f2 8c 45 71 68 a9 70 2d 9f e2 74 cc 01 00
2011-05-17 00:00:13 : IKE<172.27.199.207> rcv non-NAT-Traversal VID payload.
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [SA]:
2011-05-17 00:00:13 : IKE<172.27.199.207> Proposal received: xauthflag 0 (received phase1 proposals)
2011-05-17 00:00:13 : IKE<172.27.199.207> auth(3)<RSA>, encr(5)<3DES>, hash(2)<SHA>, group(2)
2011-05-17 00:00:13 : IKE<172.27.199.207> xauth attribute: disabled
2011-05-17 00:00:13 : IKE<172.27.199.207> Phase 1 proposal [0] selected.
2011-05-17 00:00:13 : IKE<172.27.199.207> SA Life Type = seconds
2011-05-17 00:00:13 : IKE<172.27.199.207> SA lifetime (TV) = 28800
2011-05-17 00:00:13 : IKE<172.27.199.207> DH_BG_consume OK. p1 resp
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [KE]:
2011-05-17 00:00:13 : IKE<172.27.199.207> processing ISA_KE in phase 1.
2011-05-17 00:00:13 : IKE<172.27.199.207> Phase1: his_DH_pub_len is 128
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [NONCE]:
2011-05-17 00:00:13 : IKE<172.27.199.207> processing NONCE in phase 1.
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [ID]:

2011-05-17 00:00:13 : IKE<172.27.199.207> ID received: type=ID_DER_ASN1_DN, DN = Email=juniper@juniper.net,CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US, port = 0, protocol=0
2011-05-17 00:00:13 : IKE<172.27.199.207> peer gateway entry has no peer id configured
2011-05-17 00:00:13 : IKE<172.27.199.207> ID processed. return 0. sa->p1_state = 0.
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [CERT-REQ..;]: (certificate request is being processed)
2011-05-17 00:00:13 : IKE<172.27.199.207> processing ISA_CERT_REQ starts, type=4.
2011-05-17 00:00:13 : IKE<172.27.199.207> process_cert_req done.
2011-05-17 00:00:13 : IKE<172.27.199.207> need to wait for offline p1 DH work done.
2011-05-17 00:00:13 : IKE<172.27.199.207> IKE msg done: PKI state<0> IKE state<0/281210a>
2011-05-17 00:00:13 : IKE<0.0.0.0 > finished job pkaidx <0> dh_len<128> dmax<64>
2011-05-17 00:00:13 : IKE<0.0.0.0 > finished job d<e8f4d8a><a45fb260><883b0e3><7249c901>
2011-05-17 00:00:13 : IKE<172.27.199.207> AG in state OAK_AG_NOSTATE.
2011-05-17 00:00:13 : IKE<172.27.199.207> re-enter AG after offline DH done
2011-05-17 00:00:13 : IKE<172.27.199.207> Phase 1 AG Responder constructing 2nd message.
2011-05-17 00:00:13 : IKE<172.27.199.207> Construct ISAKMP header.
2011-05-17 00:00:13 : IKE<172.27.199.207> Msg header built (next payload #1)
2011-05-17 00:00:13 : IKE<172.27.199.207> Construct [SA] for ISAKMP
2011-05-17 00:00:13 : IKE<172.27.199.207> auth(3)<RSA>, encr(5)<3DES>, hash(2)<SHA>, group(2)
2011-05-17 00:00:13 : IKE<172.27.199.207> xauth attribute: disabled
2011-05-17 00:00:13 : IKE<172.27.199.207> lifetime/lifesize (28800/0)
2011-05-17 00:00:13 : IKE<0.0.0.0 > set_phase1_transform, dh_group(2).
2011-05-17 00:00:13 : IKE<172.27.199.207> Construct NetScreen [VID]
2011-05-17 00:00:13 : IKE<172.27.199.207> Construct custom [VID]
2011-05-17 00:00:13 : IKE<172.27.199.207> Construct custom [VID]
2011-05-17 00:00:13 : IKE<172.27.199.207> Construct [KE] for ISAKMP
2011-05-17 00:00:13 : IKE<172.27.199.207> Construct [NONCE]
2011-05-17 00:00:13 : IKE<172.27.199.207> gen_skeyid()
2011-05-17 00:00:13 : IKE<172.27.199.207> gen_skeyid: returning 0
2011-05-17 00:00:13 : IKE<172.27.199.207> Construct [ID] for ISAKMP
2011-05-17 00:00:13 : found 1 cert of type 3
2011-05-17 00:00:13 : IKE<172.27.199.207> Use FQDN "www.juniper.net" in local certificate subject alternative name as IKE p1 ID.
2011-05-17 00:00:13 : IKE<172.27.199.207> Construct [CERT]
2011-05-17 00:00:13 : IKE<172.27.199.207> construct_cert(), first cert.
2011-05-17 00:00:13 : found 1 cert of type 3
2011-05-17 00:00:13 : IKE<172.27.199.207> construct_cert(), cert type = 4, certlen = 1548
2011-05-17 00:00:13 : IKE<172.27.199.207> Direct CA, peer wants X509, will send one X509 cert.
2011-05-17 00:00:13 : IKE<172.27.199.207> one X509 cert
2011-05-17 00:00:13 : IKE<172.27.199.207> responder (pki) constructing remote NAT-D
2011-05-17 00:00:13 : IKE<172.27.199.207> Construct [CERT-REQ]
2011-05-17 00:00:13 : IKE<172.27.199.207> responder (pki) constructing remote NAT-D done
2011-05-17 00:00:13 : IKE<172.27.199.207> Construct [SIG]
2011-05-17 00:00:13 : IKE<172.27.199.207> constructing RSA signature.
2011-05-17 00:00:13 : IKE<172.27.199.207> Use FQDN "www.juniper.net" in local certificate subject alternative name as IKE p1 ID. (certificate FQDN will be used as the IKE id for phase 1)
2011-05-17 00:00:13 : IKE<172.27.199.207> ID, len=19, type=2, pro=17, port=500,
2011-05-17 00:00:13 : IKE<172.27.199.207>
2011-05-17 00:00:13 : IKE<172.27.199.207>
2011-05-17 00:00:13 : IKE<172.27.199.207 > digest when construct sig
2011-05-17 00:00:13 : fb c8 a7 60 70 cd ca 1f 5d 79 23 48 a2 bd 7d bd

2011-05-17 00:00:13 : 9a 05 85 c6 02 00 00 00 68 7d 92 14 f0 00 00 00
2011-05-17 00:00:13 : key has type <6>.
2011-05-17 00:00:13 : IKE<172.27.199.207> [SIG] sig_len=256 and nbytes=260
2011-05-17 00:00:13 : IKE<172.27.199.207> throw packet to the peer, paket_len=2165
2011-05-17 00:00:13 : IKE<172.27.199.207 > Xmit : [SA] [VID] [VID] [VID] [KE] [NONCE] [ID] [CERT] [CERT-REQ]
2011-05-17 00:00:13 : [SIG]
2011-05-17 00:00:13 : IKE<172.27.199.207> Responder sending IPv4 IP 172.27.199.207/port 500
2011-05-17 00:00:13 : IKE<172.27.199.207> Send Phase 1 packet (len=2165)
2011-05-17 00:00:13 : IKE<172.27.199.207> ike packet, len 1896, action 0
2011-05-17 00:00:13 : IKE<172.27.199.207> Catcher: received 1868 bytes from socket.
2011-05-17 00:00:13 : IKE<172.27.199.207> ****** Recv packet if <ethernet0/2> of vsys <Root> ******
2011-05-17 00:00:13 : IKE<172.27.199.207> Catcher: get 1868 bytes. src port 500
2011-05-17 00:00:13 : IKE<0.0.0.0 > ISAKMP msg: len 1868, nxp 9[SIG], exch 4[AG], flag 01 E
2011-05-17 00:00:13 : IKE<172.27.199.207> Decrypting payload (length 1840)
2011-05-17 00:00:13 : IKE<172.27.199.207 > Recv*: [SIG] [CERT] [NOTIF]
2011-05-17 00:00:13 : IKE<0.0.0.0 > extract payload (1840):
2011-05-17 00:00:13 : IKE<172.27.199.207> AG in state OAK_AG_INIT_EXCH.
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [CERT]:
2011-05-17 00:00:13 : IKE<172.27.199.207> Processing CERT payload. Cert Type = 4, Cert Length = 1542.
2011-05-17 00:00:13 : input len <1547>, pos<0>, len<1547>
2011-05-17 00:00:13 : Last CERT, wrap up PKCS7.
2011-05-17 00:00:13 : :
Email=juniper@juniper.net,CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US,
2011-05-17 00:00:13 : build_ike_pki_mail: key_type=4
2011-05-17 00:00:13 : IKE<172.27.199.207> IKE msg done: PKI state<1> IKE state<5/81111f>
2011-05-17 00:00:13 : processPkiRequest cmd=0
2011-05-17 00:00:13 : certReqHandler: req=149287fc task=194bbc0
2011-05-17 00:00:13 : PKI_CID_VERIFY_CERT_REQ for task 0
2011-05-17 00:00:13 : verify_LDAP_p7_Init
2011-05-17 00:00:13 : To verify EE cert:
Email=juniper@juniper.net,CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US,
2011-05-17 00:00:13 : certReqHandler:new pLdapState=253db9c size=376
2011-05-17 00:00:13 : build_untrust_chain:
2011-05-17 00:00:13 : issuer cert found in device.
2011-05-17 00:00:13 : Add trusted CA: CN=Lab,DC=contoso,DC=com, (CA certificate is checked)
2011-05-17 00:00:13 : x509_validate_proc
2011-05-17 00:00:13 : Next CA: CN=Lab,DC=contoso,DC=com,
2011-05-17 00:00:13 : ldapIkeInit
2011-05-17 00:00:13 : x509_dss_verify
2011-05-17 00:00:13 : Verifying cert:
Email=juniper@juniper.net,CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US,
2011-05-17 00:00:13 : Cert issued by: CN=Lab,DC=contoso,DC=com,
2011-05-17 00:00:13 : ASN1_verify -> algo_index=65[alg=0x1441ec84, RSA-SHA1] type=1CC1240
2011-05-17 00:00:13 : ASN1_verify -> inl=1262
2011-05-17 00:00:13 : ASN1_verify -> siglen=256
2011-05-17 00:00:13 : EVP_VerifyFinal -> key_type = 6
2011-05-17 00:00:13 : RSA_padding_check_PKCS1_type_1: num<256> flen<255> <00000001>
2011-05-17 00:00:13 : cmp time input<110514025948Z> to current<110516230013Z>
2011-05-17 00:00:13 : cmp time input<150303133143Z> to current<110516230013Z>
2011-05-17 00:00:13 : pass the certificate DSS check
2011-05-17 00:00:13 : use per CA revocation resource.

2011-05-17 00:00:13 : checking for revocation. (CRL check is being done)
2011-05-17 00:00:13 : ldapStart
2011-05-17 00:00:13 : ldapRetrieveCRL
2011-05-17 00:00:13 : cmp time input<110520074204Z> to current<110516230013Z>
2011-05-17 00:00:13 : CRL is not expired and within device refresh requirement.
2011-05-17 00:00:13 : ldapRetrieveCRL: CRL current state =0.
2011-05-17 00:00:13 : check_local_crl: found the CRL in database.
2011-05-17 00:00:13 : ldapStart: exit (0).
2011-05-17 00:00:13 : certReqHandler: next in chain
2011-05-17 00:00:13 : move_to_next_cert_in_chain, cur<0> total<2>
2011-05-17 00:00:13 : move_to_next_cert_in_chain: at end.
2011-05-17 00:00:13 : cert_path_success
2011-05-17 00:00:13 : Top of chain verified ok:
Email=juniper@juniper.net,CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US,
2011-05-17 00:00:13 : cert verified ok:
Email=juniper@juniper.net,CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US,
2011-05-17 00:00:13 : ldap_reply_cert_verify_ok:
2011-05-17 00:00:13 : ldap_reply_cert_verify_ok: public key len=270
2011-05-17 00:00:13 : ldap_reply_cert_verify_ok: public key len=270 cert_len=1542
2011-05-17 00:00:13 : build_ike_pki_mail: key_type=6
2011-05-17 00:00:13 : pki mail received.
2011-05-17 00:00:13 : IKE<0.0.0.0 > I got hit by mail. 1
2011-05-17 00:00:13 : IKE<0.0.0.0 > message from PKI, msg id=f001
2011-05-17 00:00:13 : message from PKI, msg id=f001
2011-05-17 00:00:13 : IKE<172.27.199.207> enter PKI_CID_VERIFY_CERT_RSP
2011-05-17 00:00:13 : IKE<172.27.199.207> AG in state OAK_AG_INIT_EXCH.
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [CERT]:
2011-05-17 00:00:13 : IKE<172.27.199.207> Processing CERT payload. Cert Type = 4, Cert Length = 1542.
2011-05-17 00:00:13 : IKE<172.27.199.207> in cert, name
<Email=juniper@juniper.net,CN=www.juniper.net,OU=Network,O=support,L=california,ST=ca,C=US>
2011-05-17 00:00:13 : IKE<172.27.199.207> recv cert with IP(0.0.0.0), FQDN(none), RFC822(none)
2011-05-17 00:00:13 : IKE<0.0.0.0 > Cert NotAfter=Mar 3 13:31:43 2015 GMT
2011-05-17 00:00:13 : IKE<172.27.199.207> Cert_time(573312703) current(453513613)
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [SIG]:
2011-05-17 00:00:13 : IKE<172.27.199.207> processing xSA_SIG. SIG_TYPE=3 (RSA)
2011-05-17 00:00:13 : IKE<172.27.199.207> ***** Got public key for 172.27.199.207 *****
2011-05-17 00:00:13 : IKE<172.27.199.207> processing RSA sig
2011-05-17 00:00:13 : IKE<172.27.199.207> ID, len=152, type=9, pro=0, port=0,
2011-05-17 00:00:13 : IKE<172.27.199.207>
2011-05-17 00:00:13 : IKE<172.27.199.207 > his_digest
2011-05-17 00:00:13 : aa 35 a4 44 61 14 f8 fc fb d6 c0 54 5a 58 f1 c9
2011-05-17 00:00:13 : 25 6f 3b 25 00 00 00 00 89 0b 41 00 50 f1 cc 03
2011-05-17 00:00:13 : RSA_padding_check_PKCS1_type_1: num<256> flen<255> <00000001>
2011-05-17 00:00:13 : IKE<172.27.199.207> Process [NOTIF]:
2011-05-17 00:00:13 : IKE<172.27.199.207> Received notify message for DOI <1> <24578> <INITIAL-
CONTACT>.
2011-05-17 00:00:13 : IKE<172.27.199.207> Received initial contact notification and removed Phase 2 SAs.
2011-05-17 00:00:13 : clear phase 2 sa of peer NCP_VPN.
2011-05-17 00:00:13 : IKE<172.27.199.207> deactive p2 sa 3 send_delete 0
2011-05-17 00:00:13 : IKE<172.27.199.207> process notify exit with <0>.
2011-05-17 00:00:13 : IKE<172.27.199.207> pki_msg: pki state<0>ike state<6/81113f>

2011-05-17 00:00:13 : IKE<172.27.199.207> completing Phase 1
2011-05-17 00:00:13 : IKE<172.27.199.207> sa_pidt = 143f4e84
2011-05-17 00:00:13 : IKE<172.27.199.207> found existing peer identity 143f4bd0
2011-05-17 00:00:13 : IKE<172.27.199.207> peer_identity_unregister_p1_sa.
2011-05-17 00:00:13 : IKE<0.0.0.0 > delete peer identity 0x143f4e84
2011-05-17 00:00:13 : IKE<0.0.0.0 > peer_identity_remove_from_peer: num entry before remove <2>
2011-05-17 00:00:13 : IKE<172.27.199.207> peer_idt.c peer_identity_unregister_p1_sa 685: pidt deleted.
2011-05-17 00:00:13 : IKE<172.27.199.207> phase 1 sa timeout value reduced <28666> to <30>.
2011-05-17 00:00:13 : IKE<172.27.199.207> Phase 1: Completed for ip <172.27.199.207>, user<test>
2011-05-17 00:00:13 : IKE<172.27.199.207> Phase 1: Completed Aggressive mode negotiation with a <28800>-second lifetime. (Phase 1 completed)
2011-05-17 00:00:13 : IKE<172.27.199.207> AG start phase 2 in 1000 ms
2011-05-17 00:00:14 : IKE<172.27.199.207> ike packet, len 200, action 0
2011-05-17 00:00:14 : IKE<172.27.199.207> Catcher: received 172 bytes from socket.
2011-05-17 00:00:14 : IKE<172.27.199.207> ****** Recv packet if <ethernet0/2> of vsys <Root> ******
2011-05-17 00:00:14 : IKE<172.27.199.207> Catcher: get 172 bytes. src port 500
2011-05-17 00:00:14 : IKE<0.0.0.0 > ISAKMP msg: len 172, nxp 8[HASH], exch 32[QM], flag 01 E
2011-05-17 00:00:14 : IKE<172.27.199.207> Create conn entry...
2011-05-17 00:00:14 : IKE<172.27.199.207> ...done(new d54d03a4)
2011-05-17 00:00:14 : IKE<172.27.199.207> Phase 2 msg-id <a4034dd5>: Responded to the first peer message.
2011-05-17 00:00:14 : IKE<172.27.199.207> Decrypting payload (length 144)
2011-05-17 00:00:14 : IKE<172.27.199.207 > Recv*: [HASH] [SA] [NONCE] [ID] [ID]
2011-05-17 00:00:14 : valid id checking, id type:IP Address, len:12.
2011-05-17 00:00:14 : valid id checking, id type:IP Subnet, len:16.
2011-05-17 00:00:14 : IKE<0.0.0.0 > extract payload (144):
2011-05-17 00:00:14 : valid id checking, id type:IP Address, len:12.
2011-05-17 00:00:14 : valid id checking, id type:IP Subnet, len:16.
2011-05-17 00:00:14 : IKE<172.27.199.207> QM in state OAK_QM_SA_ACCEPT.
2011-05-17 00:00:14 : IKE<172.27.199.207> receive init proxy id type ID_IPV4_ADDR with mask 0: force mask to all 1.
2011-05-17 00:00:14 : IKE<172.27.199.207> Start by finding matching member SA (verify -1/-1)
2011-05-17 00:00:14 : IKE<172.27.199.207> IKE: Matching policy: gw ip <172.27.199.207> peer entry id<4>
2011-05-17 00:00:14 : IKE<0.0.0.0 > protocol matched expected<0>.
2011-05-17 00:00:14 : IKE<0.0.0.0 > port matched expect l:<0>, r<0>.
2011-05-17 00:00:14 : IKE<172.27.199.207> Peer is dial up.
2011-05-17 00:00:14 : IKE<172.27.199.207> configured ID for sa(9):
2011-05-17 00:00:14 : IKE<172.27.199.207> local 192.168.1.0/24 prot<0> port<0> type<4>
remote 172.27.199.207/32 prot<0> port<0> type<1>
2011-05-17 00:00:14 : IKE<172.27.199.207> member without dynamic policy found, match local address only
2011-05-17 00:00:14 : ipvx = IPV4
2011-05-17 00:00:14 : rcv_local_addr = 192.168.1.0, rcv_local_mask = 255.255.255.0, p_rcv_local_real = 192.168.1.0
2011-05-17 00:00:14 : rcv_remote_addr = 172.27.199.207, rcv_remote_mask = 255.255.255.255, p_rcv_remote_real = 172.27.199.207
2011-05-17 00:00:14 : ike_p2_id->local_ip = 192.168.1.0, cfg_local_mask = 255.255.255.0, p_cfg_local_real = 192.168.1.0
2011-05-17 00:00:14 : ike_p2_id->remote_ip = 172.27.199.207, cfg_remote_mask = 255.255.255.255, p_cfg_remote_real = 172.27.199.207
2011-05-17 00:00:14 : IKE<172.27.199.207> Proxy ID match: Located matching Phase 2 SA <9>.
2011-05-17 00:00:14 : IKE<172.27.199.207> Start by finding matching member SA (verify -1/-1)

2011-05-17 00:00:14 : IKE<172.27.199.207> IKE: Matching policy: gw ip <172.27.199.207> peer entry id<4>
2011-05-17 00:00:14 : IKE<0.0.0.0 > protocol matched expected<0>.
2011-05-17 00:00:14 : IKE<0.0.0.0 > port matched expect l:<0>, r<0>.
2011-05-17 00:00:14 : IKE<172.27.199.207> Peer is dial up.
2011-05-17 00:00:14 : IKE<172.27.199.207> configured ID for sa(9):
2011-05-17 00:00:14 : IKE<172.27.199.207> local 192.168.1.0/24 prot<0> port<0> type<4>
remote 172.27.199.207/32 prot<0> port<0> type<1> (checking the proxy id)
2011-05-17 00:00:14 : IKE<172.27.199.207> member without dynamic policy found, match local address only
2011-05-17 00:00:14 : ipvx = IPV4
2011-05-17 00:00:14 : rcv_local_addr = 192.168.1.0, rcv_local_mask = 255.255.255.0, p_rcv_local_real = 192.168.1.0
2011-05-17 00:00:14 : rcv_remote_addr = 172.27.199.207, rcv_remote_mask = 255.255.255.255, p_rcv_remote_real = 172.27.199.207
2011-05-17 00:00:14 : ike_p2_id->local_ip = 192.168.1.0, cfg_local_mask = 255.255.255.0, p_cfg_local_real = 192.168.1.0
2011-05-17 00:00:14 : ike_p2_id->remote_ip = 172.27.199.207, cfg_remote_mask = 255.255.255.255, p_cfg_remote_real = 172.27.199.207
2011-05-17 00:00:14 : IKE<172.27.199.207> Proxy ID match: Located matching Phase 2 SA <9>.
2011-05-17 00:00:14 : IKE<172.27.199.207> Process [SA]:
2011-05-17 00:00:14 : IKE<0.0.0.0 > Check P2 Proposal (checking phase 2 proposals)
2011-05-17 00:00:14 : IKE<172.27.199.207> SA life type = seconds
2011-05-17 00:00:14 : IKE<0.0.0.0 > SA life duration (TV) = 28800
2011-05-17 00:00:14 : IKE<0.0.0.0 > encap mode from peer = 1.
2011-05-17 00:00:14 : IKE<0.0.0.0 > encap mode after converting it to private value = 1.
2011-05-17 00:00:14 : IKE<172.27.199.207> Phase 2 received:
2011-05-17 00:00:14 : IKE<172.27.199.207> atts<00000003 00000000 00000003 00000002 00000001 00000000>
2011-05-17 00:00:14 : IKE<172.27.199.207> proto(3)<ESP>, esp(3)<ESP_3DES>, auth(2)<SHA>, encap(1)<TUNNEL>, group(0)
2011-05-17 00:00:14 : IKE<172.27.199.207> P2 proposal [0] selected.
2011-05-17 00:00:14 : IKE<0.0.0.0 > add sa list for msg id <a4034dd5>
2011-05-17 00:00:14 : IKE<172.27.199.207> Process [NONCE]:
2011-05-17 00:00:14 : IKE<172.27.199.207> processing NONCE in phase 2.
2011-05-17 00:00:14 : IKE<172.27.199.207> Process [ID]:
2011-05-17 00:00:14 : IKE<172.27.199.207> Process [ID]:
2011-05-17 00:00:14 : IKE<172.27.199.207> Phase 2 Responder constructing 2nd message.
2011-05-17 00:00:14 : IKE<172.27.199.207> Construct ISAKMP header.
2011-05-17 00:00:14 : IKE<172.27.199.207> Msg header built (next payload #8)
2011-05-17 00:00:14 : IKE<172.27.199.207> Construct [HASH]
2011-05-17 00:00:14 : IKE<172.27.199.207> Construct [SA] for IPSEC
2011-05-17 00:00:14 : IKE<0.0.0.0 > Set IPSEC SA attrs tunnel(1) SHA-1 grp0 lifetime(28800/0)
2011-05-17 00:00:14 : IKE<0.0.0.0 > Before NAT-T attr unmap: P2 prop tunnel = 1.
2011-05-17 00:00:14 : IKE<0.0.0.0 > After NAT-T attr unmap: P2 prop tunnel = 1.
2011-05-17 00:00:14 : IKE<172.27.199.207> IP<172.27.199.207> mask<255.255.255.255> prot<0> port<0>
2011-05-17 00:00:14 : IKE<172.27.199.207> Initiator P2 ID built: ....
2011-05-17 00:00:14 : IKE<192.168.1.0> IP<192.168.1.0> mask<255.255.255.0> prot<0> port<0>
2011-05-17 00:00:14 : IKE<172.27.199.207> Responder P2 ID built: ....
2011-05-17 00:00:14 : IKE<172.27.199.207> Construct [NONCE] for IPSec
2011-05-17 00:00:14 : IKE<172.27.199.207> Construct [ID] for Phase 2
2011-05-17 00:00:14 : id payload constructed. type(1),ip(172.27.199.207),mask(255.255.255.255), prot(0), port(0)

2011-05-17 00:00:14 : IKE<172.27.199.207> Construct [ID] for Phase 2
2011-05-17 00:00:14 : id payload constructed. type(4),ip(192.168.1.0),mask(255.255.255.0), prot(0), port(0)
2011-05-17 00:00:14 : IKE<172.27.199.207> send out RESPONDER_LIFETIME notification. prot=3,
2011-05-17 00:00:14 : IKE<172.27.199.207> life_sec=3600
2011-05-17 00:00:14 : IKE<172.27.199.207> Construct [NOTIF] (RESPONDER-LIFETIME) for IPSEC
2011-05-17 00:00:14 : IKE<172.27.199.207> construct QM HASH
2011-05-17 00:00:14 : IKE<172.27.199.207 > Xmit*: [HASH] [SA] [NONCE] [ID] [ID] [NOTIF]
2011-05-17 00:00:14 : IKE<172.27.199.207> Encrypt P2 payload (len 196)
2011-05-17 00:00:14 : IKE<172.27.199.207> Responder sending IPv4 IP 172.27.199.207/port 500
2011-05-17 00:00:14 : IKE<172.27.199.207> Send Phase 2 packet (len=204)
2011-05-17 00:00:14 : IKE<172.27.199.207> oakley_process_quick_mode():exit
2011-05-17 00:00:14 : IKE<0.0.0.0 > proc_other_session_notify->
2011-05-17 00:00:14 : IKE<0.0.0.0 > process Notify Payload: doi(1), msg(24578), txt<INITIAL-CONTACT>
2011-05-17 00:00:14 : IKE<172.27.199.207> Received initial contact notification and removed Phase 1 SAs.
2011-05-17 00:00:14 : IKE<172.27.199.207> IKE msg done: PKI state<0> IKE state<6/81113f>
2011-05-17 00:00:14 : IKE<172.27.199.207> ike packet, len 80, action 0
2011-05-17 00:00:14 : IKE<172.27.199.207> Catcher: received 52 bytes from socket.
2011-05-17 00:00:14 : IKE<172.27.199.207> ****** Recv packet if <ethernet0/2> of vsys <Root> ******
2011-05-17 00:00:14 : IKE<172.27.199.207> Catcher: get 52 bytes. src port 500
2011-05-17 00:00:14 : IKE<0.0.0.0 > ISAKMP msg: len 52, nxp 8[HASH], exch 32[QM], flag 01 E
2011-05-17 00:00:14 : IKE<172.27.199.207> Decrypting payload (length 24)
2011-05-17 00:00:14 : IKE<172.27.199.207 > Recv*: [HASH]
2011-05-17 00:00:14 : IKE<0.0.0.0 > extract payload (24):
2011-05-17 00:00:14 : IKE<172.27.199.207> QM in state OAK_QM_AUTH_AWAIT.
2011-05-17 00:00:14 : IKE<172.27.199.207> xauth_cleanup()
2011-05-17 00:00:14 : IKE<172.27.199.207> Done cleaning up IKE Phase 1 SA
2011-05-17 00:00:14 : IKE<172.27.199.207> Start by finding matching member SA (verify 3/3)
2011-05-17 00:00:14 : IKE<172.27.199.207> Verify sa: index 3
2011-05-17 00:00:14 : IKE<172.27.199.207> IKE: Matching policy: gw ip <172.27.199.207> peer entry id<4>
2011-05-17 00:00:14 : IKE<0.0.0.0 > protocol matched expected<0>.
2011-05-17 00:00:14 : IKE<0.0.0.0 > port matched expect l:<0>, r<0>.
2011-05-17 00:00:14 : IKE<172.27.199.207> Peer is dial up.
2011-05-17 00:00:14 : IKE<172.27.199.207> configured ID for sa(9):
2011-05-17 00:00:14 : IKE<172.27.199.207> local 192.168.1.0/24 prot<0> port<0> type<4>
remote 172.27.199.207/32 prot<0> port<0> type<1>
2011-05-17 00:00:14 : IKE<172.27.199.207> member without dynamic policy found, match local address only
2011-05-17 00:00:14 : ipvx = IPV4
2011-05-17 00:00:14 : rcv_local_addr = 192.168.1.0, rcv_local_mask = 255.255.255.0, p_rcv_local_real = 192.168.1.0
2011-05-17 00:00:14 : rcv_remote_addr = 172.27.199.207, rcv_remote_mask = 255.255.255.255, p_rcv_remote_real = 172.27.199.207
2011-05-17 00:00:14 : ike_p2_id->local_ip = 192.168.1.0, cfg_local_mask = 255.255.255.0, p_cfg_local_real = 192.168.1.0
2011-05-17 00:00:14 : ike_p2_id->remote_ip = 172.27.199.207, cfg_remote_mask = 255.255.255.255, p_cfg_remote_real = 172.27.199.207
2011-05-17 00:00:14 : IKE<172.27.199.207> Proxy ID match: Located matching Phase 2 SA <9>.
2011-05-17 00:00:14 : IKE<172.27.199.207> sa ID for phase 2 sa is <9>. IP version is 4.
2011-05-17 00:00:14 : IKE<172.27.199.207> Single user entry.
2011-05-17 00:00:14 : IKE<0.0.0.0 > life (sec or kb): lcl 3600, peer 28800, set 3600.
2011-05-17 00:00:14 : IKE<0.0.0.0 > life (sec or kb): lcl 0, peer 0, set 0.
2011-05-17 00:00:14 : IKE<172.27.199.207> gen_qm_key()

2011-05-17 00:00:14 : IKE<172.27.199.207> load_sa_keys(): enter.
2011-05-17 00:00:14 : IKE<172.27.199.207> gen_qm_key()
2011-05-17 00:00:14 : IKE<172.27.199.207> load_sa_keys(): enter.
2011-05-17 00:00:14 : IKE<172.27.199.207> ikmpd.c 3911. sa ID for phase 2 sa is <9>. IP version is 4.
2011-05-17 00:00:14 : IKE<0.0.0.0 > spi hash node removed: type<2>,spi<2068bb0f>,ip<172.27.201.141>
2011-05-17 00:00:14 : IKE<0.0.0.0 > spi hash node removed: type<2>,spi<d15cebb0>,ip<172.27.199.207>
2011-05-17 00:00:14 : IKE<172.27.199.207> clean_all_sa_state_node_from_list->
2011-05-17 00:00:14 : IKE<172.27.199.207> no relocate earlier SA-state, not active.
2011-05-17 00:00:14 : IKE<172.27.199.207> key_modify: sa index <3> bk_idx <3>.
2011-05-17 00:00:14 : IKE<0.0.0.0 > insert_sa_state_to_spi_hash spi<2068bb10>, sa_index<3>, Incoming
2011-05-17 00:00:14 : IKE<0.0.0.0 > insert_sa_state_to_spi_hash spi<d570e295>, sa_index<3>, Outgoing
2011-05-17 00:00:14 : IKE<172.27.199.207> update acvpn flags for sa 3
2011-05-17 00:00:14 : IKE<172.27.199.207> update acvpn flags for sa 3 - 0x400033
2011-05-17 00:00:14 : IKE<172.27.199.207>
crypto_ctx 22, 8, 24, 8, 0, 0, 16, 0, 12, 48
2011-05-17 00:00:14 : IKE<172.27.199.207> modify esp tunnel: src (peer) ipv4 <172.27.199.207>
2011-05-17 00:00:14 : IKE<172.27.199.207> modifying esp tunnel: self <ipv4 172.27.201.141>
2011-05-17 00:00:14 : IKE<172.27.199.207> update auto NHTB status for sa 3
2011-05-17 00:00:14 : IKE<172.27.199.207> after mod, out nsptunnel <08443980>.
2011-05-17 00:00:14 : IKE<172.27.199.207> Phase 2 msg-id <a4034dd5>: Completed Quick Mode negotiation with SPI <2068bb10>, tunnel ID <9>, and lifetime <3600> seconds/<0> KB. (phase 2 completed)
2011-05-17 00:00:14 : IKE<172.27.199.207> Application sa installed.
2011-05-17 00:00:14 : IKE<172.27.199.207> oakley_process_quick_mode():exit
2011-05-17 00:00:14 : IKE<172.27.199.207> IKE msg done: PKI state<0> IKE state<6/81113f>
2011-05-17 00:00:15 : IKE<172.27.199.207> entering ag_begin_qm()
2011-05-17 00:00:15 : IKE<172.27.199.207> ike state 6/81113f
2011-05-17 00:00:15 : IKE<172.27.201.140> nhtb_list_update_status: vpn 172.27.201.140
2011-05-17 00:00:15 : IKE<172.27.201.140> ** link ready return 8
2011-05-17 00:00:15 : IKE<172.27.201.140> sa_link_status_for_tunl_ifp: saidx 0, preliminary status 8
2011-05-17 00:00:15 : IKE<172.27.201.140> ** link ready return 8
2011-05-17 00:00:15 : IKE<172.27.201.140> sa_link_status_for_tunl_ifp: saidx 0, preliminary status 8
2011-05-17 00:00:16 : IKE<0.0.0.0 > finished job pkaidx <0> dh_len<128> dmax<64>
2011-05-17 00:00:16 : IKE<0.0.0.0 > finished job d<a11a8cde><39d15864><663fea39><28db8341>
2011-05-17 00:00:16 : IKE<0.0.0.0 > BN, top32 dmax64 zero<no>

Note

The above configurations are an example, It might change according to customer's requirement