Configuring IPSec from VPN Client Version 3.5 Solaris to a VPN 3000 Concentrator

Document ID: 18886

Contents

Introduction

This document illustrates how to configure the VPN Client 3.5 for Solaris 2.6 to connect to a VPN 3000 Concentrator.

Prerequisites

Requirements

Before attempting this configuration, please ensure that you meet the following prerequisites.

- This example uses pre−shared key for group authentication. The username and password (extended authentication) are checked against the internal database of the VPN Concentrator.
- The VPN Client must be correctly installed. Refer to Installing the VPN Client for Solaris for details on the installation.
- IP connectivity must exist between the VPN Client and the public interface of the VPN Concentrator. Subnet mask and gateway information must be set properly.

Components Used

The information in this document is based on these software and hardware versions.

- Cisco VPN Client for Solaris 2.6 version 3.5, 3DES image. (image name: vpnclient−solaris5.6−3.5.Rel−k9.tar.Z)
- Cisco VPN Concentrator Type: 3005 Bootcode Rev: Altiga Networks/VPN Concentrator Version 2.2.int_9 Jan 19 2000 05:36:41 Software Rev: Cisco Systems, Inc./VPN 3000 Concentrator Series Version 3.1.Rel Aug 06 2001 13:47:37

The information presented in this document was created from devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If you are working in a live

network, ensure that you understand the potential impact of any command before using it.

Conventions

For more information on document conventions, see the Cisco Technical Tips Conventions.

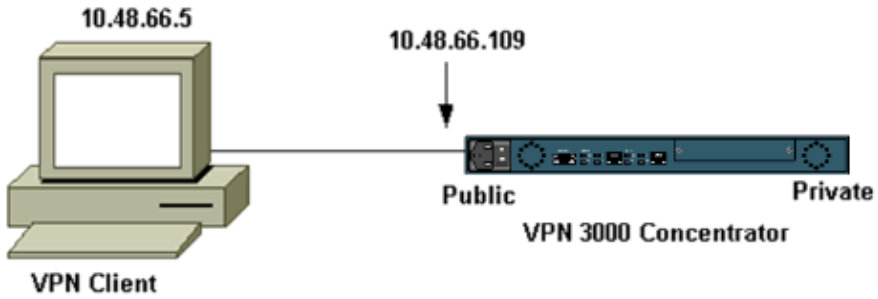
Configure

In this section, you are presented with the information to configure the features described in this document.

Note: To find additional information on the commands used in this document, use the Command Lookup Tool (registered customers only) .

Network Diagram

This document uses the network setup shown in the diagram below.



Note: For the VPN Client 3.5 to connect to the VPN Concentrator, you need version 3.0 or later on the concentrator.

Configurations

Creating a User Profile for the Connection

The user profiles are stored in the /etc/CiscoSystemsVPNClient/Profiles directory. These text files have a .pcf extension and contain parameters needed to established a connection to a VPN Concentrator. You can create a new file or edit an existing one. You should find a sample profile, sample.pcf, in the profile directory. This example follows the use of that file to create a new profile named toCORPORATE.pcf.

```
[cholera]: ~ > cd /etc/CiscoSystemsVPNClient/Profiles/
[cholera]: /etc/CiscoSystemsVPNClient/Profiles > cp sample.pcf toCORPORATE.pcf
```

You can use your favorite text editor to edit this new file, toCORPORATE.pcf. Before any modifications, the file looks like the following.

Note: If you want to use IPSec over Network Address Translation (NAT), the EnableNat entry in the configuration below must say "EnableNat=1" instead of "EnableNat=0."

```
[main]
Description=sample user profile
Host=10.7.44.1
AuthType=1
GroupName=monkeys
EnableISPConnect=0
ISPConnectType=0
```

```
ISPConnect=
ISPCommand=
Username=chimchim
SaveUserPassword=0
EnableBackup=0
BackupServer=
EnableNat=0
CertStore=0
CertName=
CertPath=
CertSubjectName=
CertSerialHash=0000000000000000000000000000000000
DHGroup=2
ForceKeepAlives=0
```

Refer toUser Profiles for a description of the user profile keywords.

To successfully configure your profile, you need to know, as a minimum, your equivalent values for the following information.

- The host name or public IP address of the VPN Concentrator (10.48.66.109)
- The group name (RemoteClient)
- The group password (cisco)
- The username (joe)

Edit the file with your information so that it will be similar to the following.

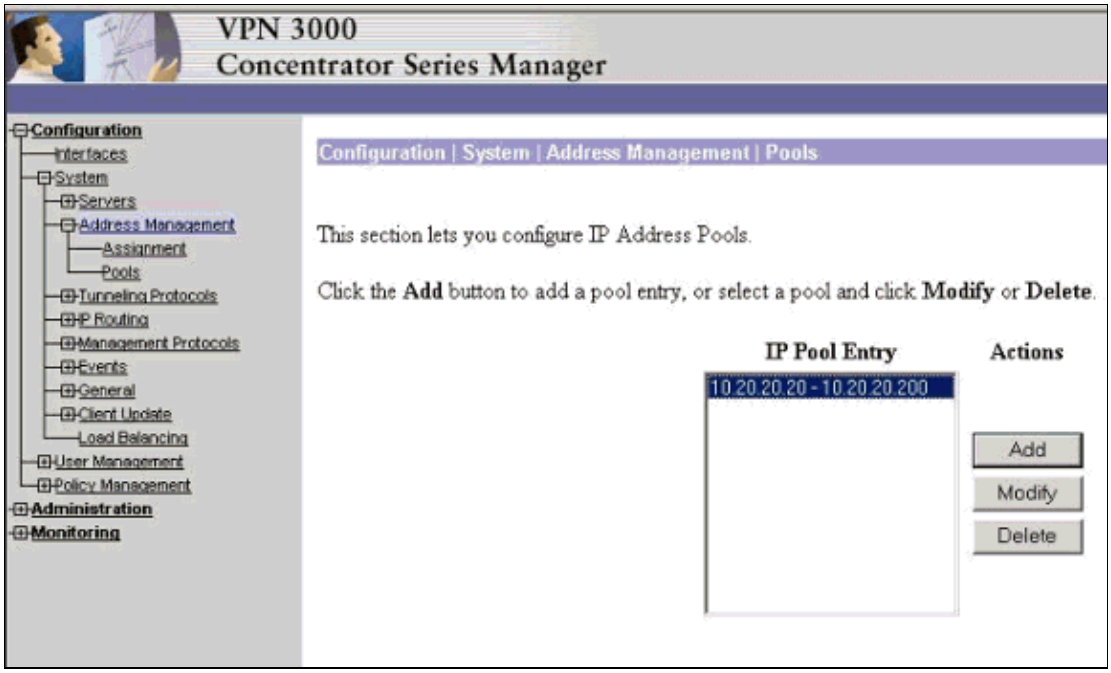
```
[main]
Description=Connection to the corporate
Host=10.48.66.109
AuthType=1
GroupName=RemoteClient
GroupPwd=cisco
EnableISPConnect=0
ISPConnectType=0
ISPConnect=
ISPCommand=
Username=joe
SaveUserPassword=0
EnableBackup=0
BackupServer=
EnableNat=0
CertStore=0
CertName=
CertPath=
CertSubjectName=
CertSerialHash=0000000000000000000000000000000000
DHGroup=2
ForceKeepAlives=0
```

Configuring the VPN Concentrator

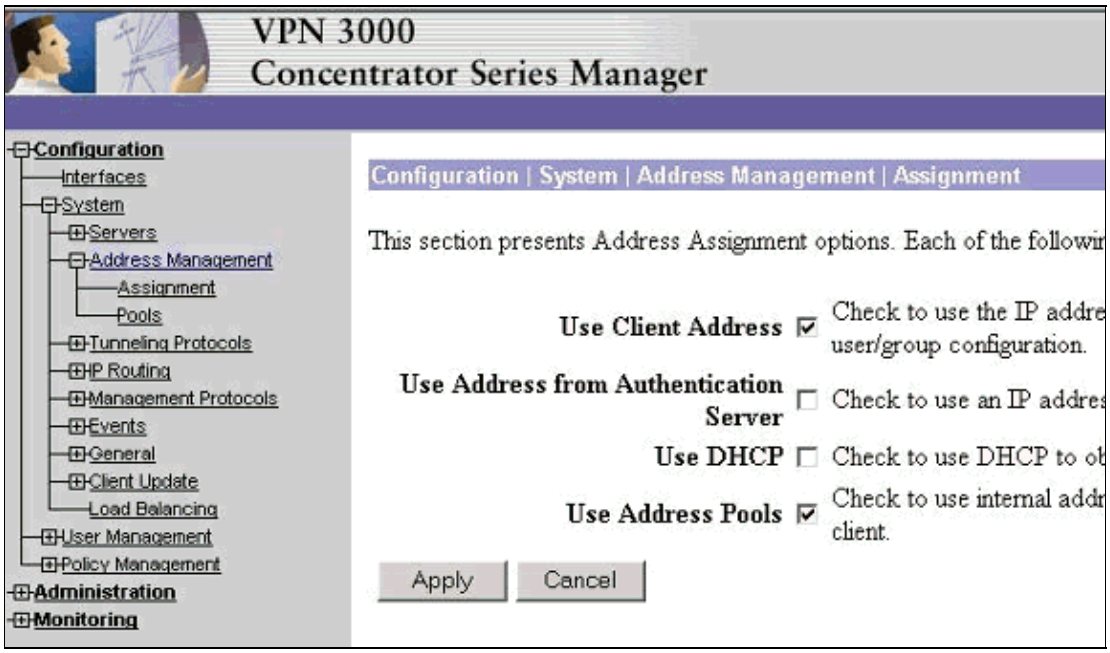
Use the following steps to configure the VPN Concentrator.

Note: Because of space limitations, screen captures only show partial or relevant areas.

1. Assign the pool of addresses. To assign an available range of IP addresses, point a browser to the inside interface of the VPN Concentrator and select **Configuration > System > Address Management >Pools**. Click **Add**. Specify a range of IP addresses that do not conflict with any other devices on the inside network.

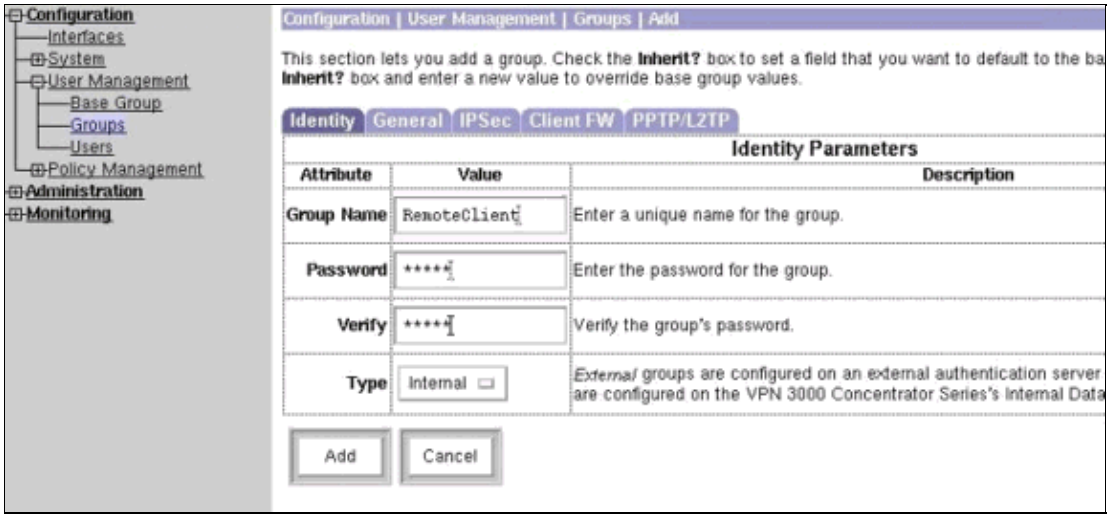


2. To tell the VPN Concentrator to use the pool, select **Configuration > System > Address Management > Assignment**, check the **Use Address Pools** box, and then click **Apply**.

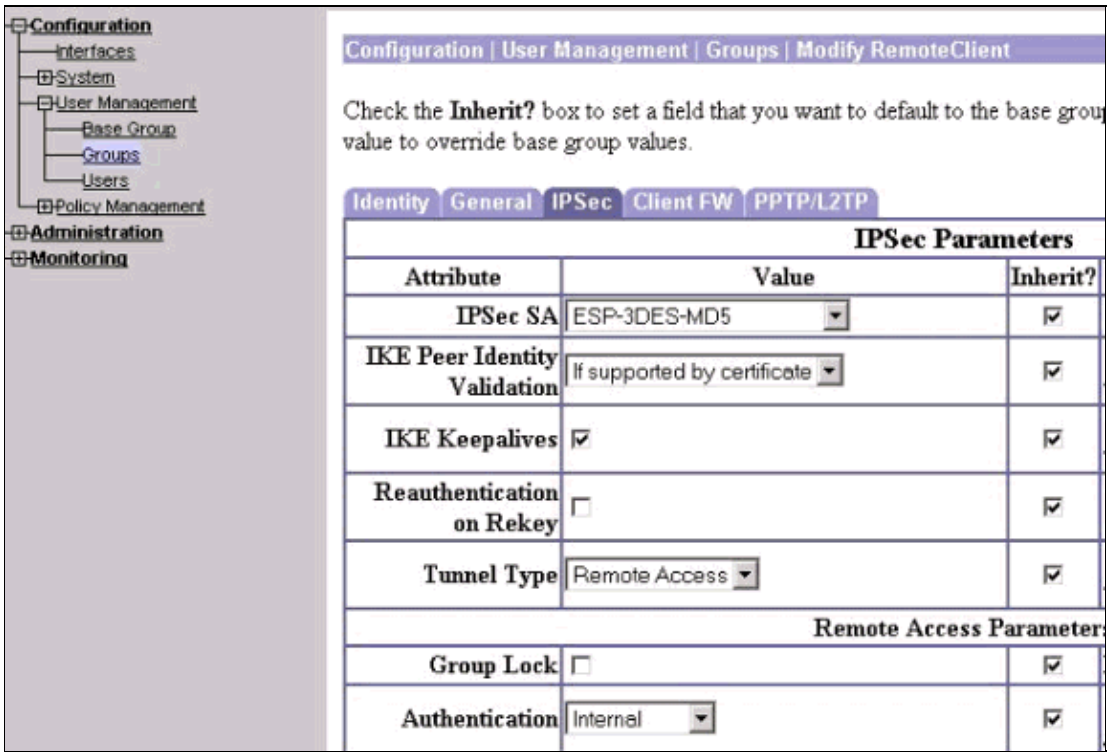


3. Add a group and a password. Select **Configuration > User Management > Groups**, and then click **Add Group**. Enter the correct information, and then click **Add** to submit the information.

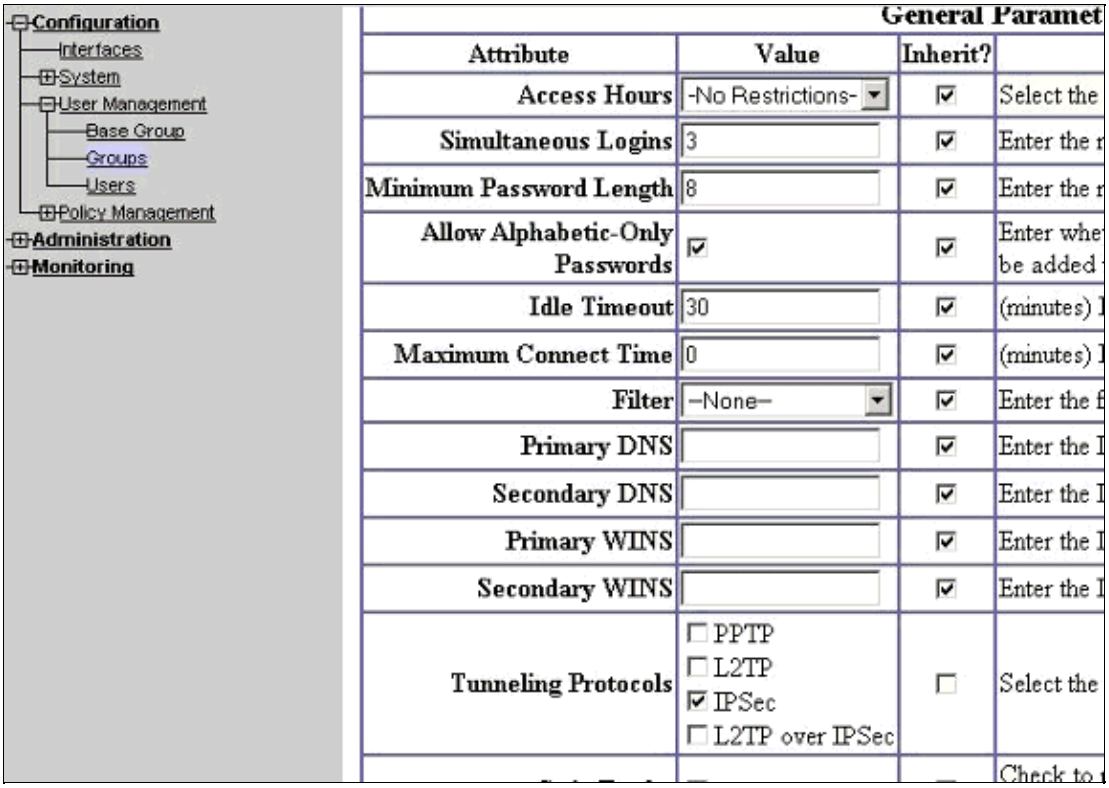
   This example uses a group named "RemoteClient" with a password of "cisco."



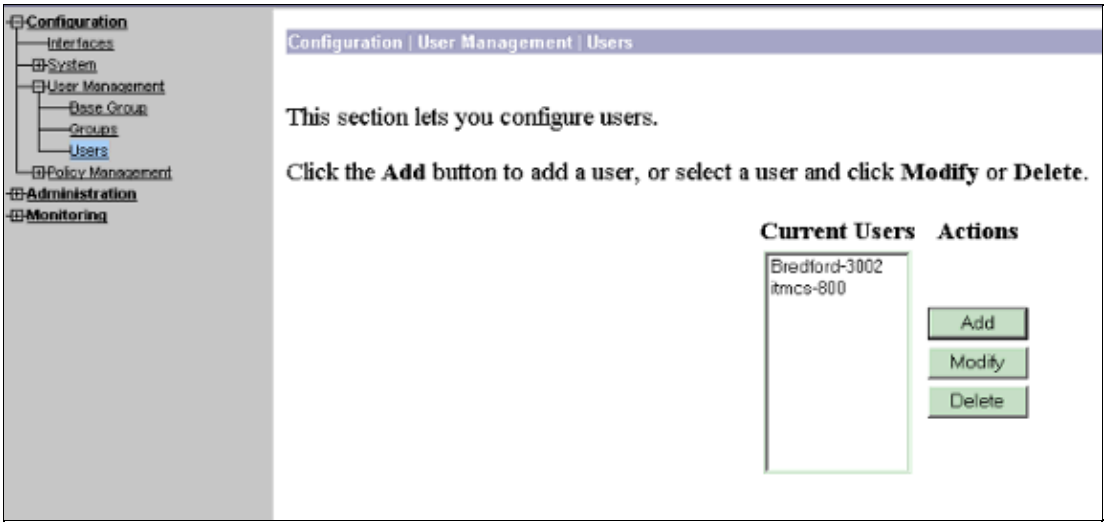
4. On the group's IPSec tab, verify that authentication is set to **Internal**.



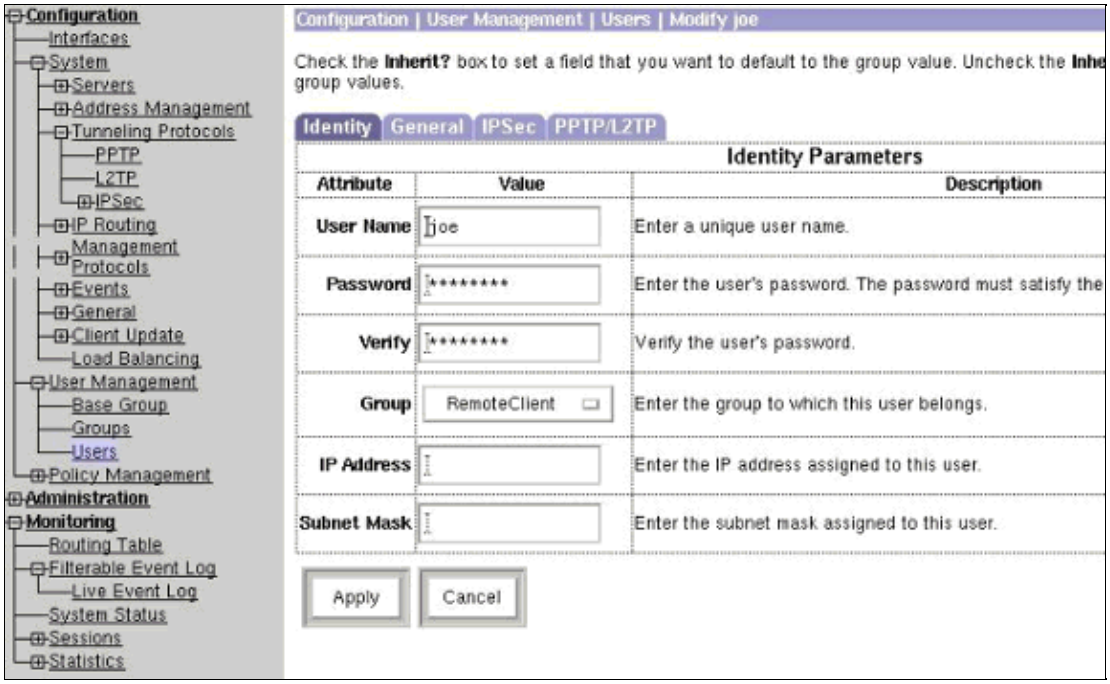
5. On the group's General tab, verify that **IPSec** is selected as the tunneling protocols.



6. To add the user to the VPN Concentrator, select **Configuration** > **User Management** > **Users**, and then click **Add**.



7. Enter the correct information for the group, and then click **Apply** to submit the information.



Verify

Connecting to the VPN Concentrator

Now that the VPN Client and Concentrator are configured, the new profile should work to connect to the VPN Concentrator.

```
91 [cholera]: /etc/CiscoSystemsVPNClient > vpnclient connect toCORPORATE
Cisco Systems VPN Client Version 3.5 (Rel)
Copyright (C) 1998-2001 Cisco Systems, Inc. All Rights Reserved.
Client Type(s): Solaris
Running on: SunOS 5.6 Generic_105181-11 sun4u

Initializing the IPSec link.
Contacting the security gateway at 10.48.66.109
Authenticating user.
User Authentication for toCORPORATE...

Enter Username and Password.

Username [Joe]:
Password []:
Contacting the security gateway at 10.48.66.109
Your link is secure.
IPSec tunnel information.
Client address: 10.20.20.20
Server address: 10.48.66.109
Encryption: 168-bit 3-DES
Authentication: HMAC-MD5
IP Compression: None
NAT passthrough is inactive.
Local LAN Access is disabled.

^Z
Suspended

[cholera]: /etc/CiscoSystemsVPNClient > bg
[1]    vpnclient connect toCORPORATE &
(The process is made to run as background process)
```

```
[cholera]: /etc/CiscoSystemsVPNClient > vpnclient disconnect

Cisco Systems VPN Client Version 3.5 (Rel)
Copyright (C) 1998−2001 Cisco Systems, Inc. All Rights Reserved.
Client Type(s): Solaris
Running on: SunOS 5.6 Generic_105181−11 sun4u

Your IPSec link has been disconnected.
Disconnecting the IPSEC link.
[cholera]: /etc/CiscoSystemsVPNClient >
[1]    Exit −56                    vpnclient connect toCORPORATE

[cholera]: /etc/CiscoSystemsVPNClient >
```

Troubleshoot

This section provides information you can use to troubleshoot your configuration.

Debugs

To enable debugs, use the **ipseclog** command. An example is shown below.

```
[cholera]: /etc/CiscoSystemsVPNClient > ipseclog /tmp/clientlog
```

Debug on the Client When Connecting to the Concentrator

```
[cholera]: /etc/CiscoSystemsVPNClient > cat /tmp/clientlog

1      17:08:49.821  01/25/2002  Sev=Info/4     CLI/0x43900002
Started vpnclient:
Cisco Systems VPN Client Version 3.5 (Rel)
Copyright (C) 1998−2001 Cisco Systems, Inc. All Rights Reserved.
Client Type(s): Solaris
Running on: SunOS 5.6 Generic_105181−11 sun4u

2      17:08:49.855  01/25/2002  Sev=Info/4     CVPND/0x4340000F
Started cvpnd:
Cisco Systems VPN Client Version 3.5 (Rel)
Copyright (C) 1998−2001 Cisco Systems, Inc. All Rights Reserved.
Client Type(s): Solaris
Running on: SunOS 5.6 Generic_105181−11 sun4u

3      17:08:49.857  01/25/2002  Sev=Info/4     IPSEC/0x43700013
Delete internal key with SPI=0xb0f0d0c0

4      17:08:49.857  01/25/2002  Sev=Info/4     IPSEC/0x4370000C
Key deleted by SPI 0xb0f0d0c0

5      17:08:49.858  01/25/2002  Sev=Info/4     IPSEC/0x43700013
Delete internal key with SPI=0x637377d3

6      17:08:49.858  01/25/2002  Sev=Info/4     IPSEC/0x4370000C
Key deleted by SPI 0x637377d3

7      17:08:49.859  01/25/2002  Sev=Info/4     IPSEC/0x43700013
Delete internal key with SPI=0x9d4d2b9d

8      17:08:49.859  01/25/2002  Sev=Info/4     IPSEC/0x4370000C
Key deleted by SPI 0x9d4d2b9d

9      17:08:49.859  01/25/2002  Sev=Info/4     IPSEC/0x43700013
Delete internal key with SPI=0x5facd5bf
```

```
10     17:08:49.860  01/25/2002  Sev=Info/4     IPSEC/0x4370000C
Key deleted by SPI 0x5facd5bf

11     17:08:49.860  01/25/2002  Sev=Info/4     IPSEC/0x43700009
IPSec driver already started

12     17:08:49.861  01/25/2002  Sev=Info/4     IPSEC/0x43700014
Deleted all keys

13     17:08:49.861  01/25/2002  Sev=Info/4     IPSEC/0x43700014
Deleted all keys

14     17:08:49.862  01/25/2002  Sev=Info/4     IPSEC/0x43700009
IPSec driver already started

15     17:08:49.863  01/25/2002  Sev=Info/4     IPSEC/0x43700009
IPSec driver already started

16     17:08:49.863  01/25/2002  Sev=Info/4     IPSEC/0x43700014
Deleted all keys

17     17:08:50.873  01/25/2002  Sev=Info/4     CM/0x43100002
Begin connection process

18     17:08:50.883  01/25/2002  Sev=Info/4     CM/0x43100004
Establish secure connection using Ethernet

19     17:08:50.883  01/25/2002  Sev=Info/4     CM/0x43100026
Attempt connection with server "10.48.66.109"

20     17:08:50.883  01/25/2002  Sev=Info/6     IKE/0x4300003B
Attempting to establish a connection with 10.48.66.109.

21     17:08:51.099  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK AG (SA, KE, NON, ID, VID, VID, VID) to
10.48.66.109

22     17:08:51.099  01/25/2002  Sev=Info/4     IPSEC/0x43700009
IPSec driver already started

23     17:08:51.100  01/25/2002  Sev=Info/4     IPSEC/0x43700014
Deleted all keys

24     17:08:51.400  01/25/2002  Sev=Info/5     IKE/0x4300002F
Received ISAKMP packet: peer = 10.48.66.109

25     17:08:51.400  01/25/2002  Sev=Info/4     IKE/0x43000014
RECEIVING <<< ISAKMP OAK AG (SA, KE, NON, ID, HASH, VID, VID, VID,
VID) from 10.48.66.109

26     17:08:51.400  01/25/2002  Sev=Info/5     IKE/0x43000059
Vendor ID payload = 12F5F28C457168A9702D9FE274CC0100

27     17:08:51.400  01/25/2002  Sev=Info/5     IKE/0x43000001
Peer is a Cisco-Unity compliant peer

28     17:08:51.400  01/25/2002  Sev=Info/5     IKE/0x43000059
Vendor ID payload = 09002689DFD6B712

29     17:08:51.400  01/25/2002  Sev=Info/5     IKE/0x43000059
Vendor ID payload = AFCAD71368A1F1C96B8696FC77570100

30     17:08:51.400  01/25/2002  Sev=Info/5     IKE/0x43000001
Peer supports DPD
```

```
31     17:08:51.400  01/25/2002  Sev=Info/5     IKE/0x43000059
Vendor ID payload = 1F07F70EAA6514D3B0FA96542A500301

32     17:08:51.505  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK AG *(HASH, NOTIFY:STATUS_INITIAL_CONTACT)
to 10.48.66.109

33     17:08:51.510  01/25/2002  Sev=Info/5     IKE/0x4300002F
Received ISAKMP packet: peer = 10.48.66.109

34     17:08:51.511  01/25/2002  Sev=Info/4     IKE/0x43000014
RECEIVING <<< ISAKMP OAK TRANS *(HASH, ATTR) from 10.48.66.109

35     17:08:51.511  01/25/2002  Sev=Info/4     CM/0x43100015
Launch xAuth application

36     17:08:56.333  01/25/2002  Sev=Info/4     CM/0x43100017
xAuth application returned

37     17:08:56.334  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK TRANS *(HASH, ATTR) to 10.48.66.109

38     17:08:56.636  01/25/2002  Sev=Info/5     IKE/0x4300002F
Received ISAKMP packet: peer = 10.48.66.109

39     17:08:56.637  01/25/2002  Sev=Info/4     IKE/0x43000014
RECEIVING <<< ISAKMP OAK TRANS *(HASH, ATTR) from 10.48.66.109

40     17:08:56.637  01/25/2002  Sev=Info/4     CM/0x4310000E
Established Phase 1 SA.  1 Phase 1 SA in the system

41     17:08:56.639  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK TRANS *(HASH, ATTR) to 10.48.66.109

42     17:08:56.639  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK TRANS *(HASH, ATTR) to 10.48.66.109

43     17:08:56.645  01/25/2002  Sev=Info/5     IKE/0x4300002F
Received ISAKMP packet: peer = 10.48.66.109

44     17:08:56.646  01/25/2002  Sev=Info/4     IKE/0x43000014
RECEIVING <<< ISAKMP OAK TRANS *(HASH, ATTR) from 10.48.66.109

45     17:08:56.646  01/25/2002  Sev=Info/5     IKE/0x43000010
MODE_CFG_REPLY: Attribute = INTERNAL_IPV4_ADDRESS: ,
value = 10.20.20.20

46     17:08:56.646  01/25/2002  Sev=Info/5     IKE/0x4300000D
MODE_CFG_REPLY: Attribute = MODECFG_UNITY_SAVEPWD: ,
value = 0x00000000

47     17:08:56.646  01/25/2002  Sev=Info/5     IKE/0x4300000D
MODE_CFG_REPLY: Attribute = MODECFG_UNITY_PFS: ,
value = 0x00000000

48     17:08:56.646  01/25/2002  Sev=Info/5     IKE/0x4300000E
MODE_CFG_REPLY: Attribute = APPLICATION_VERSION,
value = Cisco Systems, Inc./VPN 3000 Concentrator Series
Version 3.1.Rel built by vmurphy on Aug 06 2001 13:47:37

49     17:08:56.648  01/25/2002  Sev=Info/4     CM/0x43100019
Mode Config data received

50     17:08:56.651  01/25/2002  Sev=Info/5     IKE/0x43000055
Received a key request from Driver for IP address 10.48.66.109,
GW IP = 10.48.66.109
```

```
51     17:08:56.652  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK QM *(HASH, SA, NON, ID, ID) to 10.48.66.109

52     17:08:56.653  01/25/2002  Sev=Info/5     IKE/0x43000055
Received a key request from Driver for IP address 10.10.10.255,
GW IP = 10.48.66.109

53     17:08:56.653  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK QM *(HASH, SA, NON, ID, ID) to 10.48.66.109

54     17:08:56.663  01/25/2002  Sev=Info/5     IKE/0x4300002F
Received ISAKMP packet: peer = 10.48.66.109

55     17:08:56.663  01/25/2002  Sev=Info/4     IKE/0x43000014
RECEIVING <<< ISAKMP OAK INFO *(HASH, NOTIFY:STATUS_RESP_LIFETIME)
from 10.48.66.109

56     17:08:56.663  01/25/2002  Sev=Info/5     IKE/0x43000044
RESPONDER-LIFETIME notify has value of 86400 seconds

57     17:08:56.663  01/25/2002  Sev=Info/5     IKE/0x43000046
This SA has already been alive for 6 seconds, setting expiry
to 86394 seconds from now

58     17:08:56.666  01/25/2002  Sev=Info/5     IKE/0x4300002F
Received ISAKMP packet: peer = 10.48.66.109

59     17:08:56.666  01/25/2002  Sev=Info/4     IKE/0x43000014
RECEIVING <<< ISAKMP OAK QM *(HASH, SA, NON, ID, ID,
NOTIFY:STATUS_RESP_LIFETIME) from 10.48.66.109

60     17:08:56.667  01/25/2002  Sev=Info/5     IKE/0x43000044
RESPONDER-LIFETIME notify has value of 28800 seconds

61     17:08:56.667  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK QM *(HASH) to 10.48.66.109

62     17:08:56.667  01/25/2002  Sev=Info/5     IKE/0x43000058
Loading IPsec SA (Message ID = 0x4CEF4B32 OUTBOUND SPI =
0x5EAD41F5 INBOUND SPI = 0xE66C759A)

63     17:08:56.668  01/25/2002  Sev=Info/5     IKE/0x43000025
Loaded OUTBOUND ESP SPI: 0x5EAD41F5

64     17:08:56.669  01/25/2002  Sev=Info/5     IKE/0x43000026
Loaded INBOUND ESP SPI: 0xE66C759A

65     17:08:56.669  01/25/2002  Sev=Info/4     CM/0x4310001A
One secure connection established

66     17:08:56.674  01/25/2002  Sev=Info/5     IKE/0x4300002F
Received ISAKMP packet: peer = 10.48.66.109

67     17:08:56.675  01/25/2002  Sev=Info/4     IKE/0x43000014
RECEIVING <<< ISAKMP OAK QM *(HASH, SA, NON, ID, ID,
NOTIFY:STATUS_RESP_LIFETIME) from 10.48.66.109

68     17:08:56.675  01/25/2002  Sev=Info/5     IKE/0x43000044
RESPONDER-LIFETIME notify has value of 28800 seconds

69     17:08:56.675  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK QM *(HASH) to 10.48.66.109

70     17:08:56.675  01/25/2002  Sev=Info/5     IKE/0x43000058
Loading IPsec SA (Message ID = 0x88E9321A OUTBOUND SPI =
```

```
0x333B4239 INBOUND SPI = 0x6B040746)

71     17:08:56.677  01/25/2002  Sev=Info/5     IKE/0x43000025
Loaded OUTBOUND ESP SPI: 0x333B4239

72     17:08:56.677  01/25/2002  Sev=Info/5     IKE/0x43000026
Loaded INBOUND ESP SPI: 0x6B040746

73     17:08:56.678  01/25/2002  Sev=Info/4     CM/0x43100022
Additional Phase 2 SA established.

74     17:08:57.752  01/25/2002  Sev=Info/4     IPSEC/0x43700014
Deleted all keys

75     17:08:57.752  01/25/2002  Sev=Info/4     IPSEC/0x43700010
Created a new key structure

76     17:08:57.752  01/25/2002  Sev=Info/4     IPSEC/0x4370000F
Added key with SPI=0x5ead41f5 into key list

77     17:08:57.753  01/25/2002  Sev=Info/4     IPSEC/0x43700010
Created a new key structure

78     17:08:57.753  01/25/2002  Sev=Info/4     IPSEC/0x4370000F
Added key with SPI=0xe66c759a into key list

79     17:08:57.754  01/25/2002  Sev=Info/4     IPSEC/0x43700010
Created a new key structure

80     17:08:57.754  01/25/2002  Sev=Info/4     IPSEC/0x4370000F
Added key with SPI=0x333b4239 into key list

81     17:08:57.754  01/25/2002  Sev=Info/4     IPSEC/0x43700010
Created a new key structure

82     17:08:57.755  01/25/2002  Sev=Info/4     IPSEC/0x4370000F
Added key with SPI=0x6b040746 into key list

83     17:09:13.752  01/25/2002  Sev=Info/6     IKE/0x4300003D
Sending DPD request to 10.48.66.109, seq# = 2948297981

84     17:09:13.752  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK INFO *(HASH, NOTIFY:DPD_REQUEST)
to 10.48.66.109

85     17:09:13.758  01/25/2002  Sev=Info/5     IKE/0x4300002F
Received ISAKMP packet: peer = 10.48.66.109

86     17:09:13.758  01/25/2002  Sev=Info/4     IKE/0x43000014
RECEIVING <<< ISAKMP OAK INFO *(HASH, NOTIFY:DPD_ACK)
from 10.48.66.109

87     17:09:13.759  01/25/2002  Sev=Info/5     IKE/0x4300003F
Received DPD ACK from 10.48.66.109, seq# received = 2948297981,
seq# expected = 2948297981



debug on the client when disconnecting
88     17:09:16.366  01/25/2002  Sev=Info/4     CLI/0x43900002
Started vpnclient:
Cisco Systems VPN Client Version 3.5 (Rel)
Copyright (C) 1998−2001 Cisco Systems, Inc. All Rights Reserved.
Client Type(s): Solaris
Running on: SunOS 5.6 Generic_105181−11 sun4u
```

```
89     17:09:16.367  01/25/2002  Sev=Info/4     CM/0x4310000A
Secure connections terminated

90     17:09:16.367  01/25/2002  Sev=Info/5     IKE/0x43000018
Deleting IPsec SA: (OUTBOUND SPI = 333B4239 INBOUND SPI = 6B040746)

91     17:09:16.368  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK INFO *(HASH, DEL) to 10.48.66.109

92     17:09:16.369  01/25/2002  Sev=Info/5     IKE/0x43000018
Deleting IPsec SA: (OUTBOUND SPI = 5EAD41F5 INBOUND SPI = E66C759A)

93     17:09:16.369  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK INFO *(HASH, DEL) to 10.48.66.109

94     17:09:16.370  01/25/2002  Sev=Info/4     IKE/0x43000013
SENDING >>> ISAKMP OAK INFO *(HASH, DEL) to 10.48.66.109

95     17:09:16.371  01/25/2002  Sev=Info/4     CM/0x43100013
Phase 1 SA deleted cause by DEL_REASON_RESET_SADB.
0 Phase 1 SA currently in the system

96     17:09:16.371  01/25/2002  Sev=Info/5     CM/0x43100029
Initializing CVPNDrv

97     17:09:16.371  01/25/2002  Sev=Info/6     CM/0x43100035
Tunnel to headend device 10.48.66.109 disconnected:
duration: 0 days 0:0:20

98     17:09:16.375  01/25/2002  Sev=Info/5     CM/0x43100029
Initializing CVPNDrv

99     17:09:16.377  01/25/2002  Sev=Info/5     IKE/0x4300002F
Received ISAKMP packet: peer = 10.48.66.109

100    17:09:16.377  01/25/2002  Sev=Warning/2  IKE/0x83000061
Attempted incoming connection from 10.48.66.109. Inbound
connections are not allowed.

101    17:09:17.372  01/25/2002  Sev=Info/4     IPSEC/0x43700013
Delete internal key with SPI=0x6b040746

102    17:09:17.372  01/25/2002  Sev=Info/4     IPSEC/0x43700013
Delete internal key with SPI=0x333b4239

103    17:09:17.373  01/25/2002  Sev=Info/4     IPSEC/0x43700013
Delete internal key with SPI=0xe66c759a

104    17:09:17.373  01/25/2002  Sev=Info/4     IPSEC/0x43700013
Delete internal key with SPI=0x5ead41f5

105    17:09:17.373  01/25/2002  Sev=Info/4     IPSEC/0x43700014
Deleted all keys

106    17:09:17.374  01/25/2002  Sev=Info/4     IPSEC/0x43700009
IPSec driver already started

107    17:09:17.374  01/25/2002  Sev=Info/4     IPSEC/0x43700014
Deleted all keys

108    17:09:17.375  01/25/2002  Sev=Info/4     IPSEC/0x43700009
IPSec driver already started

109    17:09:17.375  01/25/2002  Sev=Info/4     IPSEC/0x43700014
Deleted all keys
```

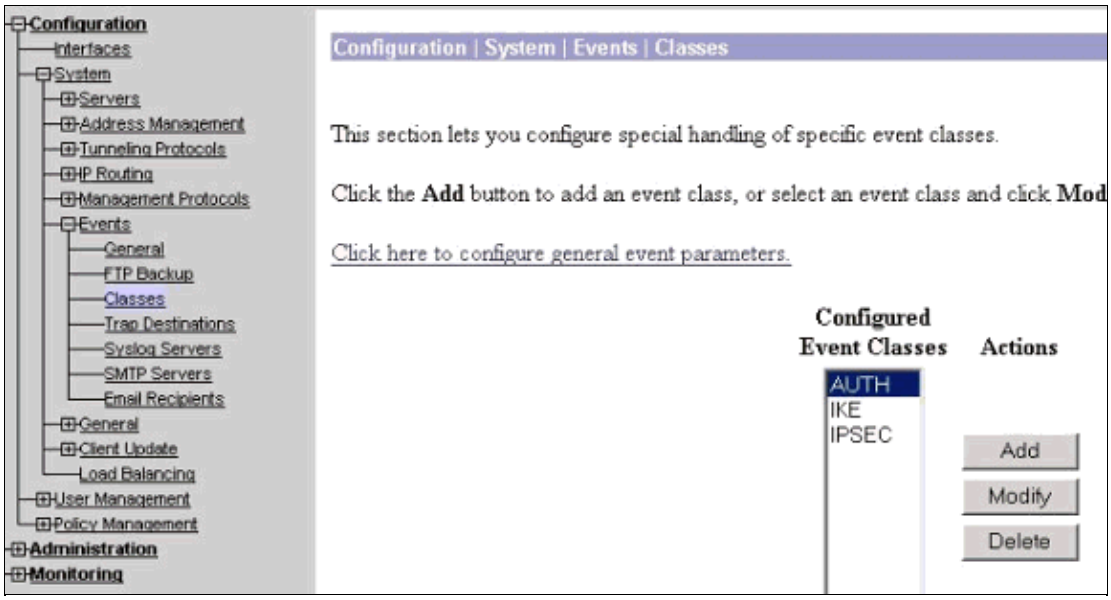
```
110    17:09:17.375  01/25/2002  Sev=Info/4     IPSEC/0x43700009
IPSec driver already started

111    17:09:17.376  01/25/2002  Sev=Info/4     IPSEC/0x43700014
Deleted all keys
```

Debugs on the VPN Concentrator

Select **Configuration > System > Events > Classes** to turn on the following debug if there are event connection failures.

- **AUTH** − Severity to log 1−13
- **IKE** − Severity to log 1−6
- **IPSEC** − Severity to log 1−6



You can view the log by selecting **Monitoring > Event Log**.

Related Information

- **Cisco VPN 3000 Series Concentrator Support Page**
- **Cisco VPN 3000 Series Client Support Page**
- **IPSec Support Page**
- **Technical Support − Cisco Systems**

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