採用IPSec SDI驗證的Cisco VPN Client to VPN 3000 Concentrator（伺服器版本3.3）

目錄

簡介

可以將Cisco VPN 3000 Concentrator配置為通過Security Dynamics International(SDI)伺服器驗證Cisco VPN客戶端。VPN 3000集中器充當SDI客戶端，在使用者資料包協定(UDP)埠5500上與SDI伺服器通訊。以下文檔顯示如何確保SDI伺服器、VPN 3000 Concentrator和Cisco VPN Client正常工作，以及如何組合這些元件。如果VPN 3000集中器尚未配置，請使用安裝和配置VPN 3000集中器而不使用SDI中的步驟，使用命令列介面(CLI)進行初始安裝和配置。如果您的VPN 3000集中器先前已配置，請按照修改現有配置（不帶SDI）的步驟操作。

必要條件

需求

本文件沒有特定先決條件。

採用元件

此配置是使用下面的軟體和硬體版本開發和測試的。

- SDI伺服器3.3（UNIX和NT）
- VPN 3000集中器(2.5.2)
- VPN使用者端2.5.2.A

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您在即時網路中工作，請確保在使用任何命令之前瞭解其潛在影響。

慣例

如需文件慣例的詳細資訊，請參閱思科技術提示慣例。

背景資訊

本檔案適用於Cisco VPN 3000使用者端(2.5.x)或Cisco VPN使用者端(3.x)。 在3.0及更高版本中，您現在可以為各個組配置單個SDI伺服器，而不是一個全域性定義並由所有組使用的SDI伺服器。未配置單個SDI伺服器的組將使用全域性定義的SDI伺服器。

SDI中有三種型別的新的個人標識號(PIN)模式。VPN 3000 Concentrator支援前兩個選項，如下所示。

- 使用者選擇新的PIN。
- 伺服器選取新的PIN並通知使用者。
- 伺服器選擇新的PIN碼並通知使用者；使用者可以更改PIN。

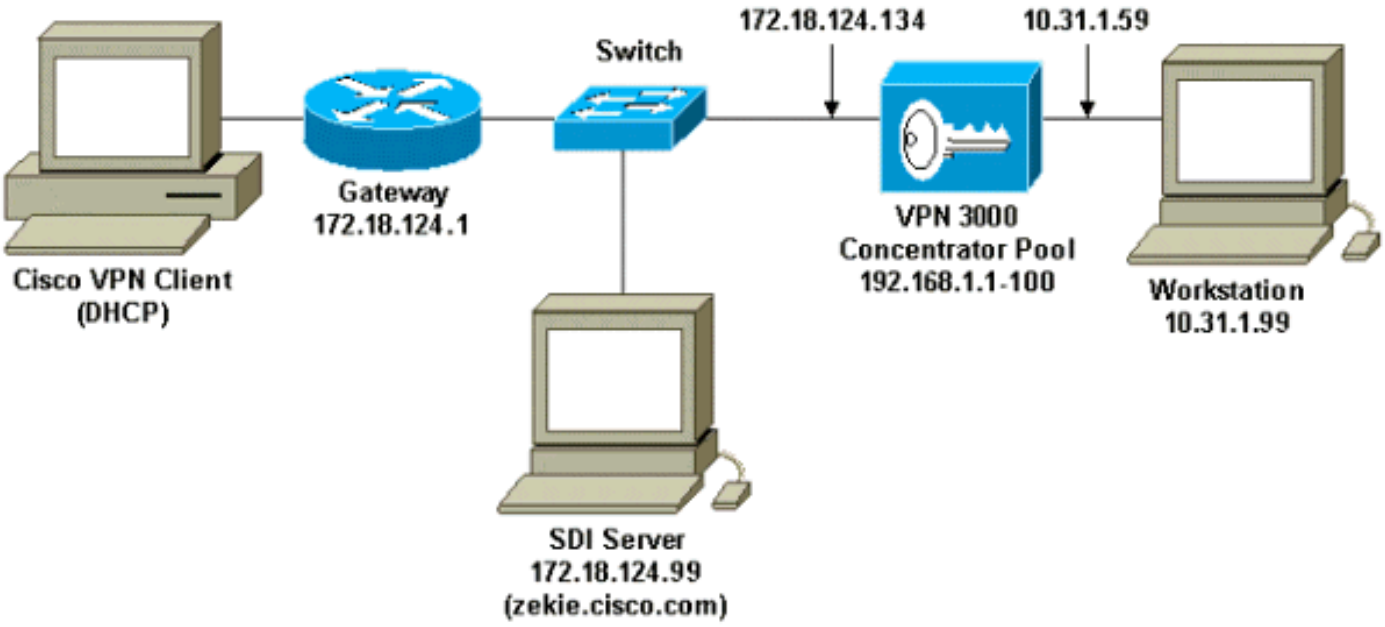
設定

本節提供用於設定本文件中所述功能的資訊。

注意：要查詢有關本文檔中使用的命令的其他資訊，請使用命令查詢工具(僅限註冊客戶)。

網路圖表

本文檔使用下圖所示的網路設定。



組態

安裝和配置不帶SDI的VPN 3000集中器

我們將VPN 3000集中器配置為對組中的使用者進行本地身份驗證；在新增SDI之前執行此操作，可以確定思科VPN客戶端和VPN 3000集中器之間的IPSec工作正常。通過轉至**管理>系統重新啟動>計畫重新啟動>使用工廠/預設配置重新啟動**，我們清除了控制檯埠上的VPN 3000集中器配置。

重新啟動後，完成以下初始配置：

VPN 3000集中器配置

```
Login: admin
Password:

                Welcome to
              Cisco Systems
       VPN 3000 Concentrator Series
          Command Line Interface
Copyright (C) 1998-2000 Cisco Systems, Inc.

 -- : Set the time on your device. The correct time is
very important,
 -- : so that logging and accounting entries are
accurate.

 -- : Enter the system time in the following format:
 -- :       HH:MM:SS.  Example  21:30:00  for 9:30 PM

> Time

Quick -> [ 13:02:39 ]

 -- : Enter the date in the following format.
 -- : MM/DD/YYYY  Example 06/12/1999  for June 12th
1999.

> Date
```

```
Quick -> [ 10/09/2000 ]

 -- : Set the time zone on your device. The correct time
zone is very
 -- : important so that logging and accounting entries
are accurate.

 -- : Enter the time zone using the hour offset from
GMT:
 -- : -12 : Kwajalein  -11 : Samoa    -10 : Hawaii
-9 : Alaska
 -- :  -8 : PST         -7 : MST       -6 : CST
-5 : EST
 -- :  -4 : Atlantic    -3 : Brasilia  -2 : Mid-Atlantic
-1 : Azores
 -- :   0 : GMT         +1 : Paris     +2 : Cairo
+3 : Kuwait
 -- :  +4 : Abu Dhabi   +5 : Karachi   +6 : Almaty
+7 : Bangkok
 -- :  +8 : Singapore   +9 : Tokyo    +10 : Sydney
+11 : Solomon Is.
 -- : +12 : Marshall Is.

> Time Zone

Quick -> [ -5 ] -5

1) Enable DST Support
2) Disable DST Support

Quick -> [ 1 ]

This table shows current IP addresses.

    Interface                  IP Address/Subnet Mask
MAC Address
-------------------------------------------------------
-----------------------
| Ethernet 1 - Private  |         0.0.0.0/0.0.0.0
|
| Ethernet 2 - Public   |         0.0.0.0/0.0.0.0
|

| Ethernet 3 - External |         0.0.0.0/0.0.0.0
|
-------------------------------------------------------
-----------------------

** An address is required for the private interface. **

> Enter IP Address

Quick Ethernet 1 -> [ 0.0.0.0 ] 10.31.1.59

Waiting for Network Initialization...

> Enter Subnet Mask

Quick Ethernet 1 -> [ 255.0.0.0 ] 255.255.255.0

1) Ethernet Speed 10 Mbps
2) Ethernet Speed 100 Mbps
3) Ethernet Speed 10/100 Mbps Auto Detect
```

```
Quick Ethernet 1 -> [ 3 ]

1) Enter Duplex - Half/Full/Auto
2) Enter Duplex - Full Duplex
3) Enter Duplex - Half Duplex

Quick Ethernet 1 -> [ 1 ]

1) Modify Ethernet 1 IP Address (Private)
2) Modify Ethernet 2 IP Address (Public)
3) Modify Ethernet 3 IP Address (External)
4) Configure Expansion Cards
5) Save changes to Config file
6) Continue
7) Exit

Quick -> 2

This table shows current IP addresses.

    Interface                  IP Address/Subnet Mask
MAC Address
-------------------------------------------------------
-----------------------
| Ethernet 1 - Private  |      10.31.1.59/255.255.255.0
|  00.90.A4.00.1C.B4
| Ethernet 2 - Public   |         0.0.0.0/0.0.0.0
|
| Ethernet 3 - External |         0.0.0.0/0.0.0.0
|
-------------------------------------------------------
-----------------------

> Enter IP Address

Quick Ethernet 2 -> [ 0.0.0.0 ] 172.18.124.134

> Enter Subnet Mask

Quick Ethernet 2 -> [ 255.255.0.0 ] 255.255.255.0

1) Ethernet Speed 10 Mbps
2) Ethernet Speed 100 Mbps
3) Ethernet Speed 10/100 Mbps Auto Detect

Quick Ethernet 2 -> [ 3 ]

1) Enter Duplex - Half/Full/Auto
2) Enter Duplex - Full Duplex
3) Enter Duplex - Half Duplex

Quick Ethernet 2 -> [ 1 ]

1) Modify Ethernet 1 IP Address (Private)
2) Modify Ethernet 2 IP Address (Public)
3) Modify Ethernet 3 IP Address (External)
4) Configure Expansion Cards
5) Save changes to Config file
6) Continue
7) Exit

Quick -> 6

 -- : Assign a system name to this device.
```

```
> System Name

Quick -> vpn3000

 -- : Specify a local DNS server, which lets you enter
hostnames
 -- : rather than IP addresses while configuring.

> DNS Server

Quick -> [ 0.0.0.0 ]

 -- : Enter your Internet domain name; e.g.,
yourcompany.com

> Domain

Quick ->

> Default Gateway

Quick -> 172.18.124.1

-- : Configure protocols and encryption options.
-- : This table shows current protocol settings

         PPTP         |        L2TP         |
----------------------------------------------
|       Enabled       |       Enabled       |
|  No Encryption Req  |  No Encryption Req  |
----------------------------------------------

1) Enable  PPTP
2) Disable PPTP

Quick -> [ 1 ]

1) PPTP Encryption Required
2) No Encryption Required

Quick -> [ 2 ]

1) Enable  L2TP
2) Disable L2TP

Quick -> [ 1 ]
1) L2TP Encryption Required
2) No Encryption Required

Quick -> [ 2 ]

1) Enable  IPSec
2) Disable IPSec

Quick -> [ 1 ]

-- : Configure address assignment for PPTP, L2TP and
IPSec.

1) Enable Client Specified Address Assignment
2) Disable Client Specified Address Assignment

Quick -> [ 2 ]
```

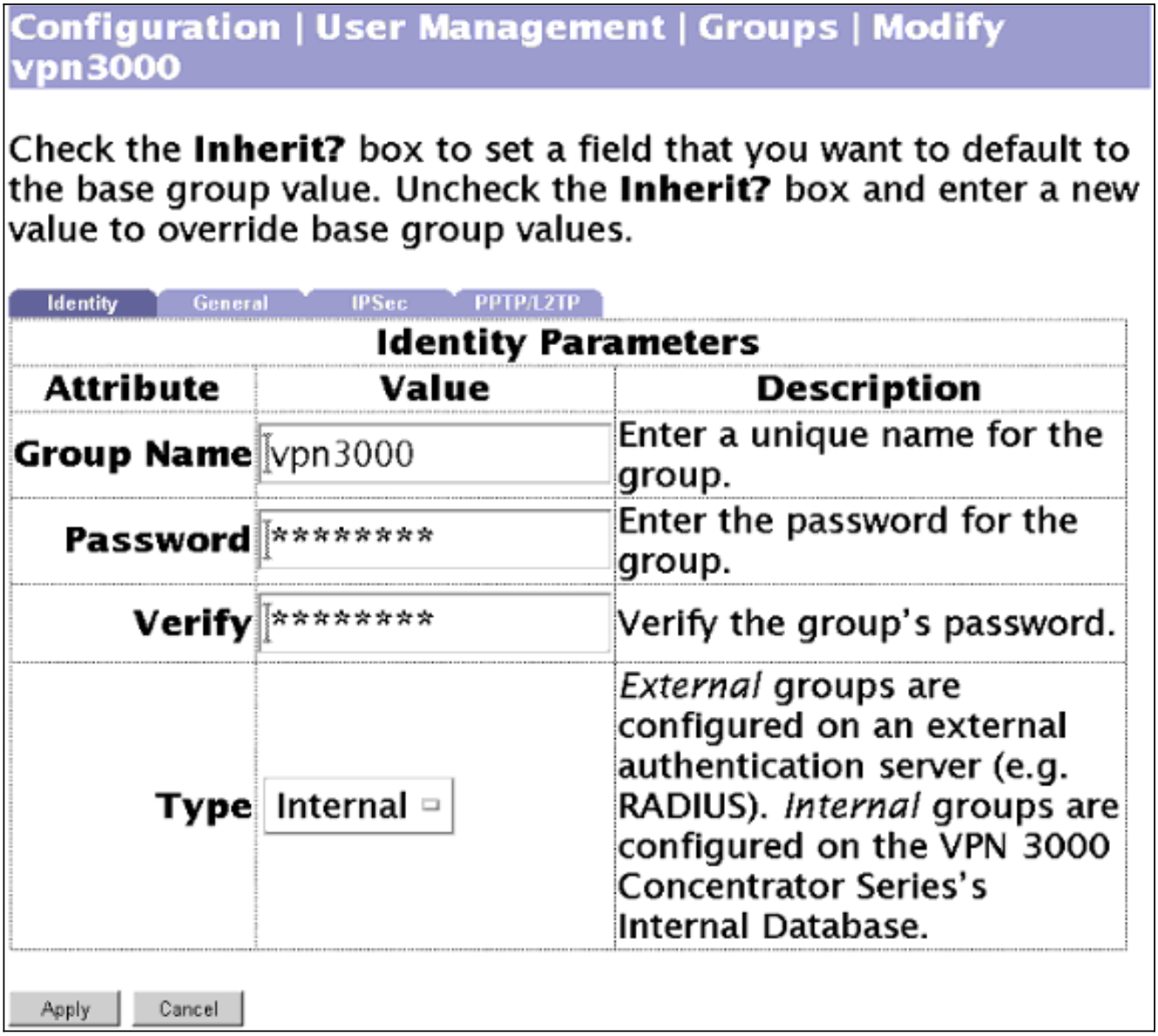
```
1) Enable Per User Address Assignment
2) Disable Per User Address Assignment

Quick -> [ 2 ]

1) Enable DHCP Address Assignment
2) Disable DHCP Address Assignment

Quick -> [ 2 ]

1) Enable Configured Pool Address Assignment
2) Disable Configured Pool Address Assignment

Quick -> [ 2 ] 1

> Configured Pool Range Start Address

Quick -> 192.168.1.1

> Configured Pool Range End Address

Quick -> [ 0.0.0.0 ] 192.168.1.100

-- : Specify how to authenticate users

1) Internal Authentication Server
2) RADIUS Authentication Server
3) NT Domain Authentication Server
4) SDI Authentication Server
5) Continue

Quick -> [ 1 ] 1

                                    Current Users
-------------------------------------------------------------
------------------------
                                      No Users
-------------------------------------------------------------
------------------------

1) Add a User
2) Delete a User
3) Continue

Quick -> 1

> User Name

Quick -> 37297304

> Password

Quick -> *********
Verify -> *********

                                    Current Users
-------------------------------------------------------------
------------------------
| 1. 37297304                               |
|
-------------------------------------------------------------
------------------------
```

```
1) Add a User
2) Delete a User
3) Continue

Quick -> 3

> IPSec Group Name

Quick -> vpn3000

> IPSec Group Password

Quick -> ********
Verify -> ********

-- : We strongly recommend that you change the password
for user admin.

> Reset Admin Password

Quick -> [ ***** ]
Verify ->

1) Goto Main Configuration Menu
2) Save changes to Config file
3) Exit

Quick -> 2

1) Goto Main Configuration Menu
2) Save changes to Config file
3) Exit

Quick -> 3

Done
```

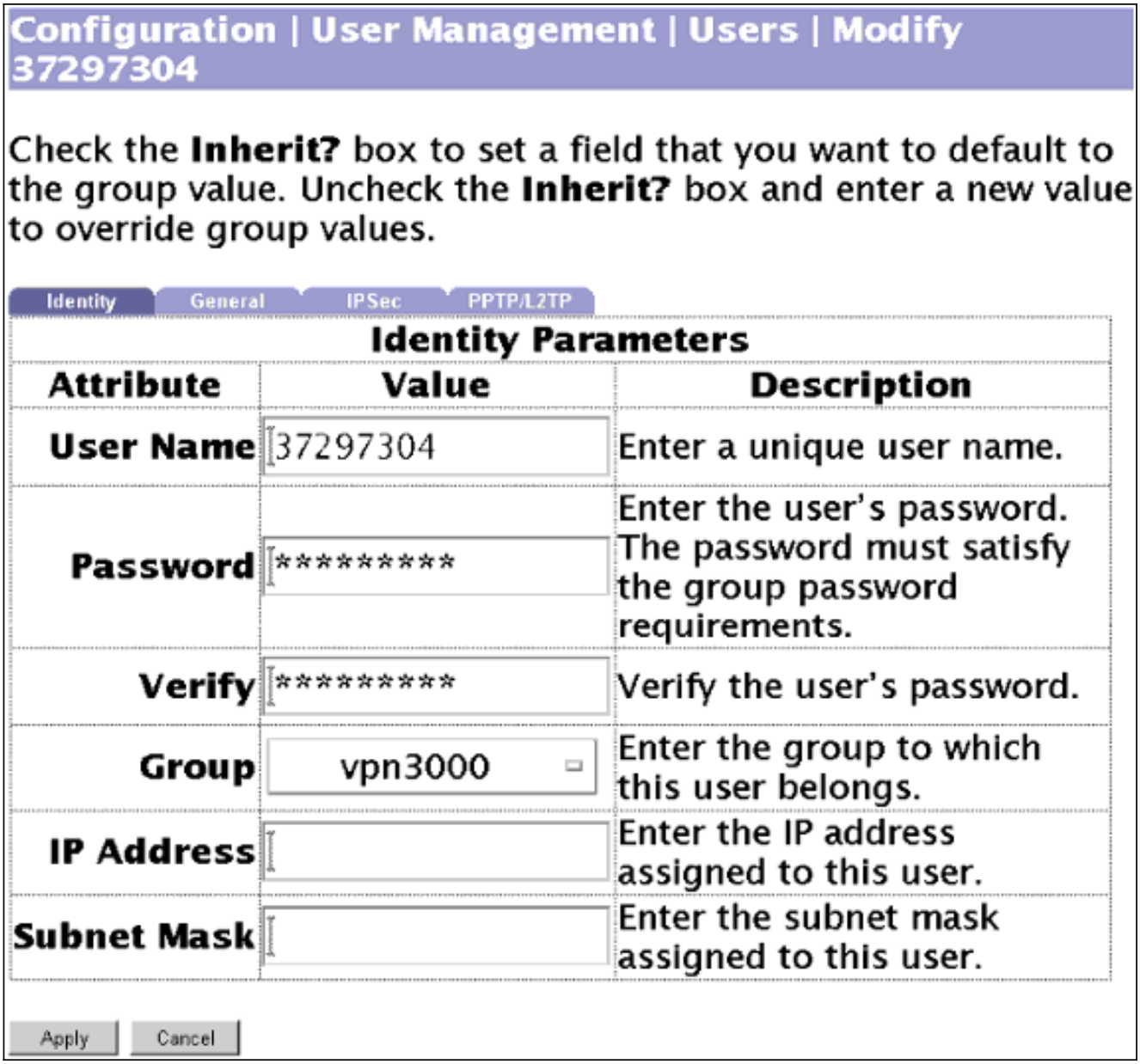
修改現有配置（不帶SDI）

如果先前已配置VPN 3000 Concentrator，則以下螢幕用於驗證組、使用者和IPSec/IKE設定：

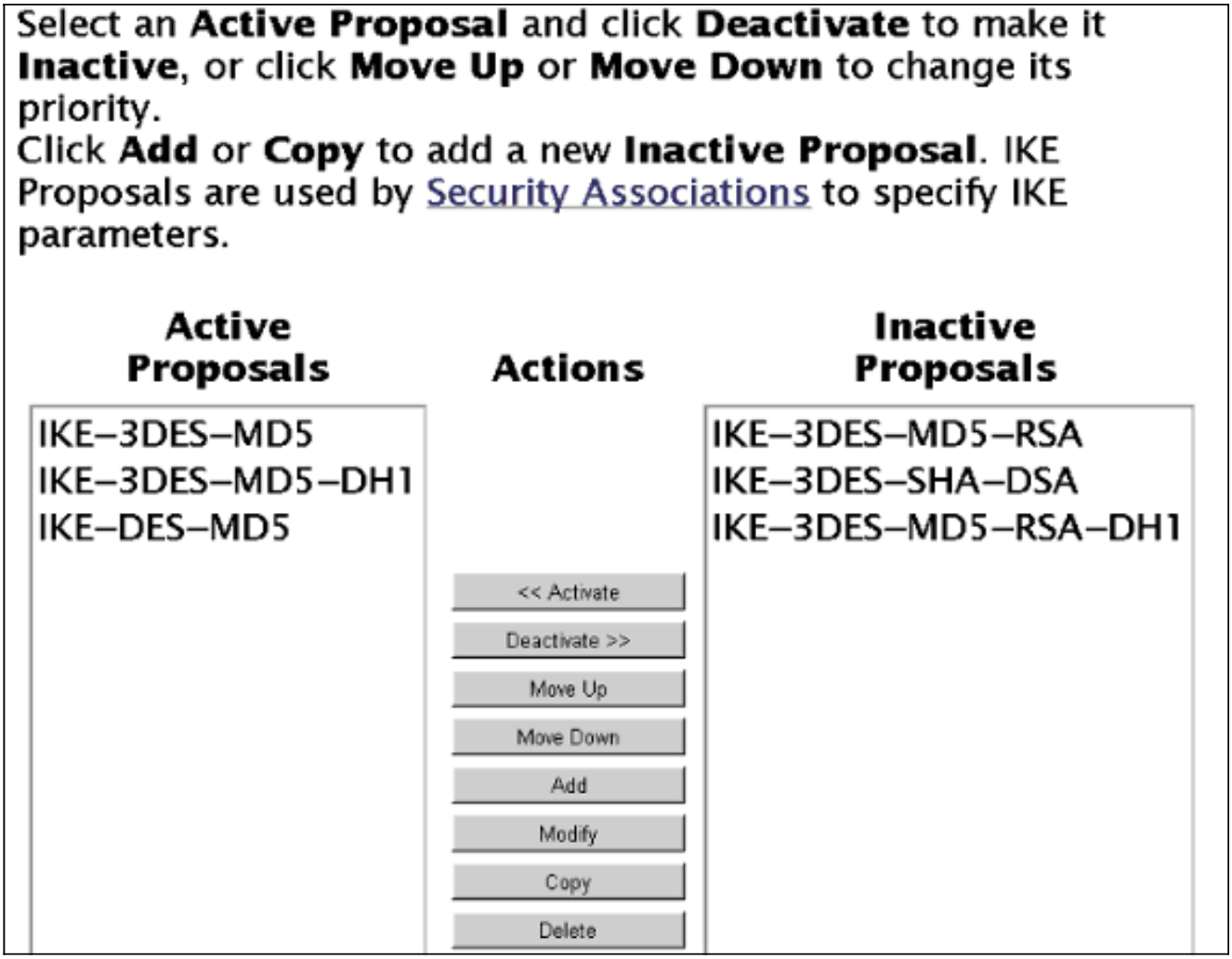
1. 使用此螢幕新增具有本地身份驗證的組
   ：



2. 使用此螢幕將使用者新增到具有本地身份驗證的組
   :



3. 使用IPSec > IKE建議螢幕新增IKE設定（顯示的設定是系統預設值）：



測試不帶SDI的Cisco VPN Client和VPN 3000 Concentrator

修改VPN 3000集中器上的現有配置後，我們將安裝Cisco VPN客戶端，並配置新的連線終止於172.18.124.134（集中器的公共介面）。 我們的組訪問資訊是「vpn3000」（組的名稱），組密碼是該組的密碼。按一下**Connect**時，使用者名稱是「37297304」（使用者名稱），使用者密碼是使用者的密碼(儲存在VPN 3000集中器本地；尚未涉及SDI)。 有關IKE、IKEDBG、IKEDECODE、IPSEC、IPSECDBG、IPSECDECODE調試，請參閱使用本地身份驗證的良好IPSec調試。

測試不使用VPN 3000集中器的SDI伺服器操作

UNIX(Solaris)

1. 在SDI伺服器上，使用Solaris admintool建立sditest帳戶。/etc/passwd條目應如下所示：
   `sditest:x:76:10::/local/0/sditest:/local/0/opt/ace/prog/sdshell`
   注意：使用者的主目錄和「sdshell」的值及路徑取決於系統。
2. 將令牌分配給sditest。
3. 嘗試Telnet到UNIX主機作為最次要的。主機提示您輸入UNIX密碼和PASSCODE。進行驗證後，會允許你作為最弱使用者進入該主機。

Microsoft Windows NT

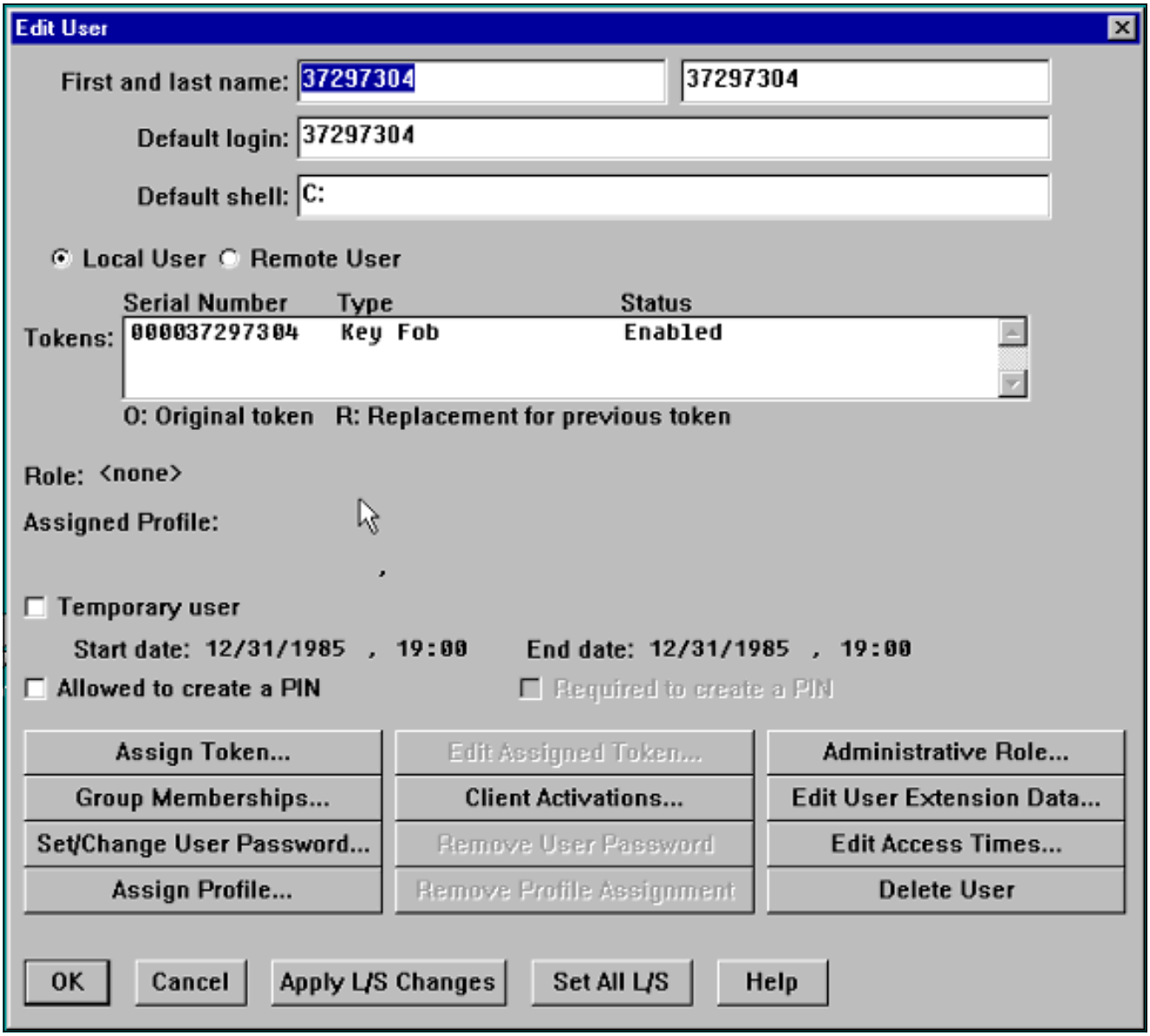
1. 安裝SecurSight代理。
2. 選擇**Programs > SecurSight > Test Authentication**。

配置SDI/使用者與VPN 3000集中器通話

使用以下步驟配置SDI/使用者與VPN 3000集中器通話：

1. 在SDI Server Edit Token螢幕上，驗證令牌是否為「Enabled」，並且未處於新PIN模式。
2. 按一下「**Resynchronize Token**」，然後「**Set PIN to Next Tokencode**」。

3. 在「編輯使用者」螢幕上，為使用者分配令牌，並驗證是否未選中「允許建立PIN」。
4. 點選Client Activations並驗證是否包括VPN 3000 Concentrator。



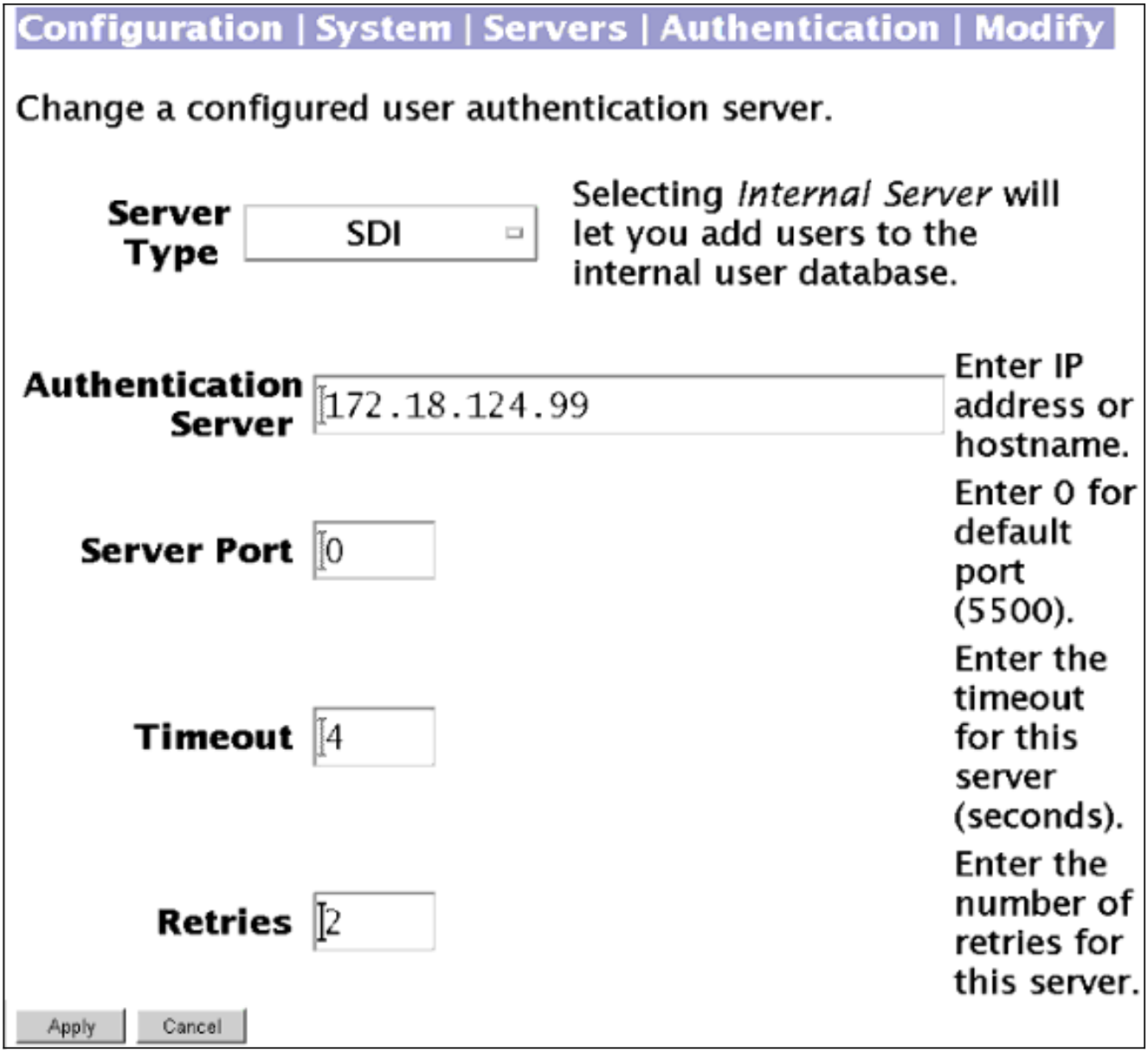
注意：VPN 3000集中器被認為是SDI伺服器的客戶端；下面的螢幕是SDI伺服器新增/編輯客戶端螢幕。由於這是新客戶端，「已傳送的節點金鑰」框呈灰色顯示。SDI伺服器沒有機會將「node secret」檔案傳送到集中器(此檔案將在集中器的**管理>檔案管理>檔案**部分顯示為「SECURID」)。 從VPN 3000成功進行身份驗證後，VPN 3000集中器上會顯示「節點金鑰」檔案，並選中「已傳送節點金鑰」框。

5. 按一下**User Activations**並驗證是否包含該使用者。

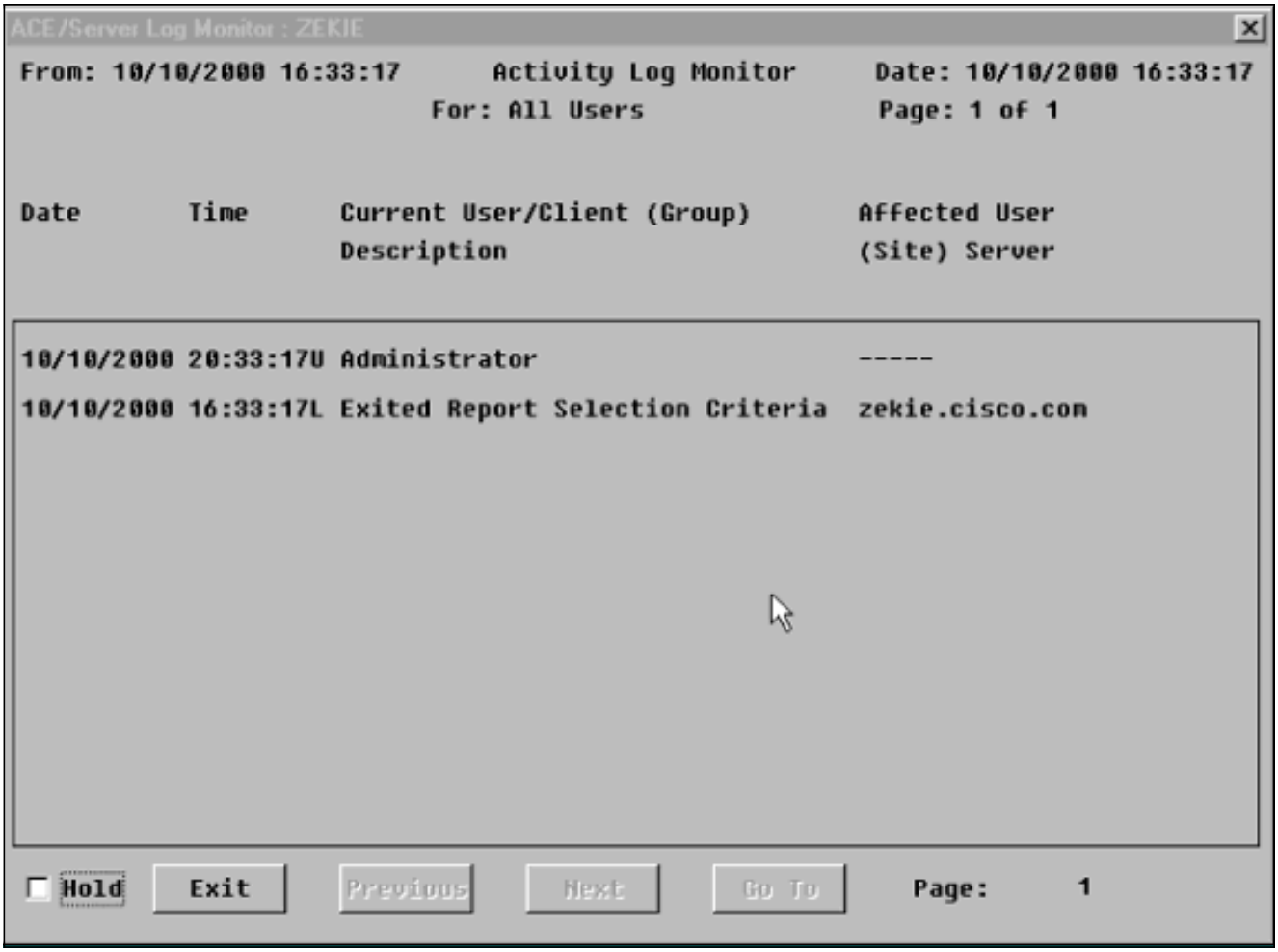
配置並測試VPN 3000集中器到SDI

使用以下步驟配置和測試VPN 3000 Concentrator to SDI。

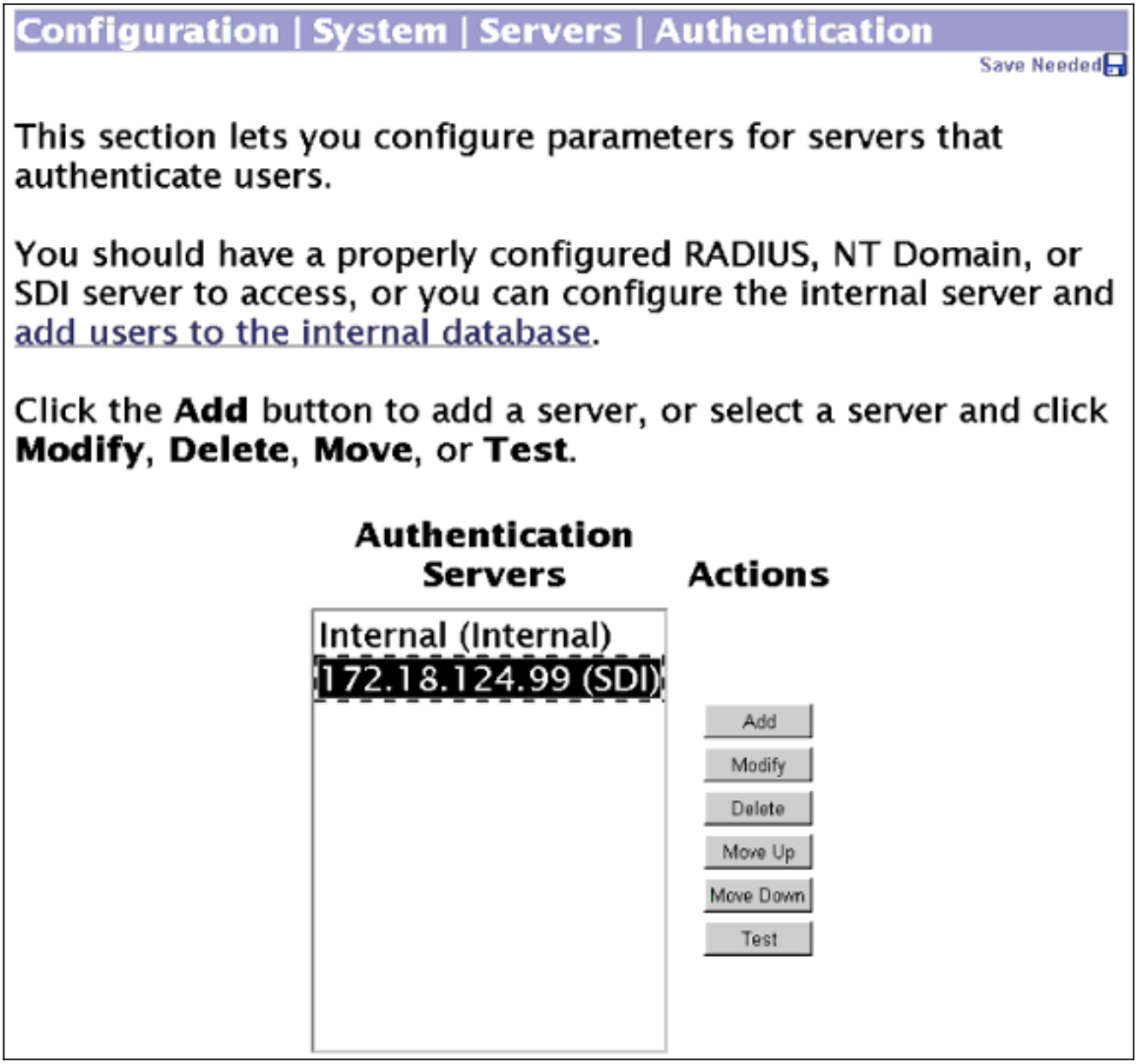
1. 使用以下螢幕配置VPN 3000集中器以向SDI進行身份驗證
   :



2. 在SDI中，轉至Report > Log Monitor > Activity Monitor，然後按一下OK以觀察傳入的請求。



3. 在VPN 3000 Concentrator上，按一下**Test**測試連線。



4. 如果身份驗證正常，VPN 3000集中器顯示：**身份驗證成功**

在上面的示例中，我們定義了一個全域性SDI伺服器。還可以通過轉至**Configuration > User Management > Groups**，突出顯示相應的組，然後選擇**Modify Auth Server**，選擇為每個組定義單個SDI伺服器。

有關偵錯資訊，請參閱本檔案的以下各節：

- 開啟VPN 3000集中器的調試
- 使用SDI進行良好調試
- 調試錯誤

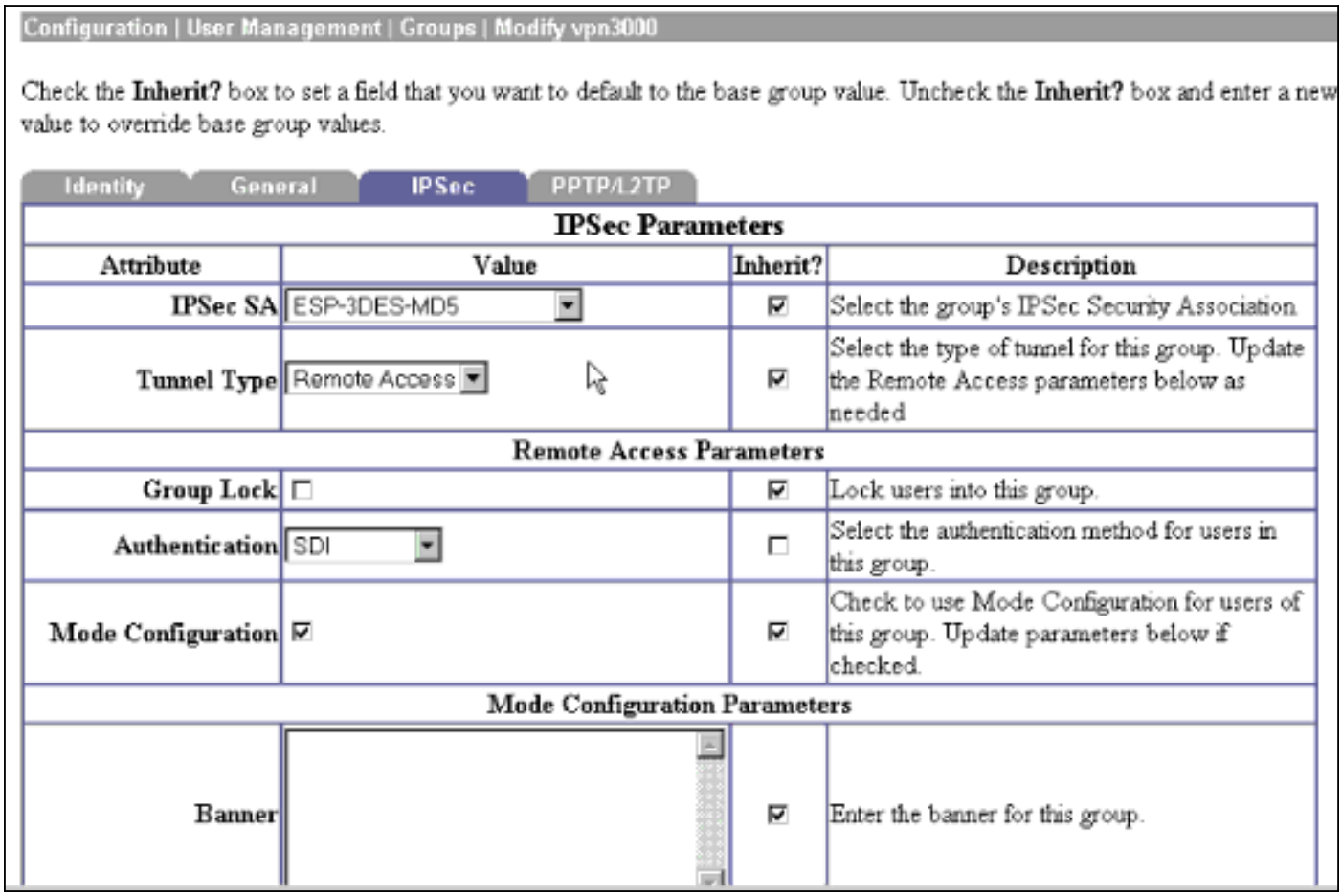
驗證

本節提供的資訊可用於確認您的組態是否正常運作。

使用SDI測試Cisco VPN Client to VPN 3000 Concentrator

如果所有操作都在此之前有效，那麼是時候將Cisco VPN Client、VPN 3000 Concentrator和SDI Server結合使用了。我們需要對VPN 3000集中器進行一次更改，方法是修改我們稱之為「

vpn3000」的工作組，以將請求傳送到SDI伺服器。



疑難排解

本節提供的資訊可用於對組態進行疑難排解。

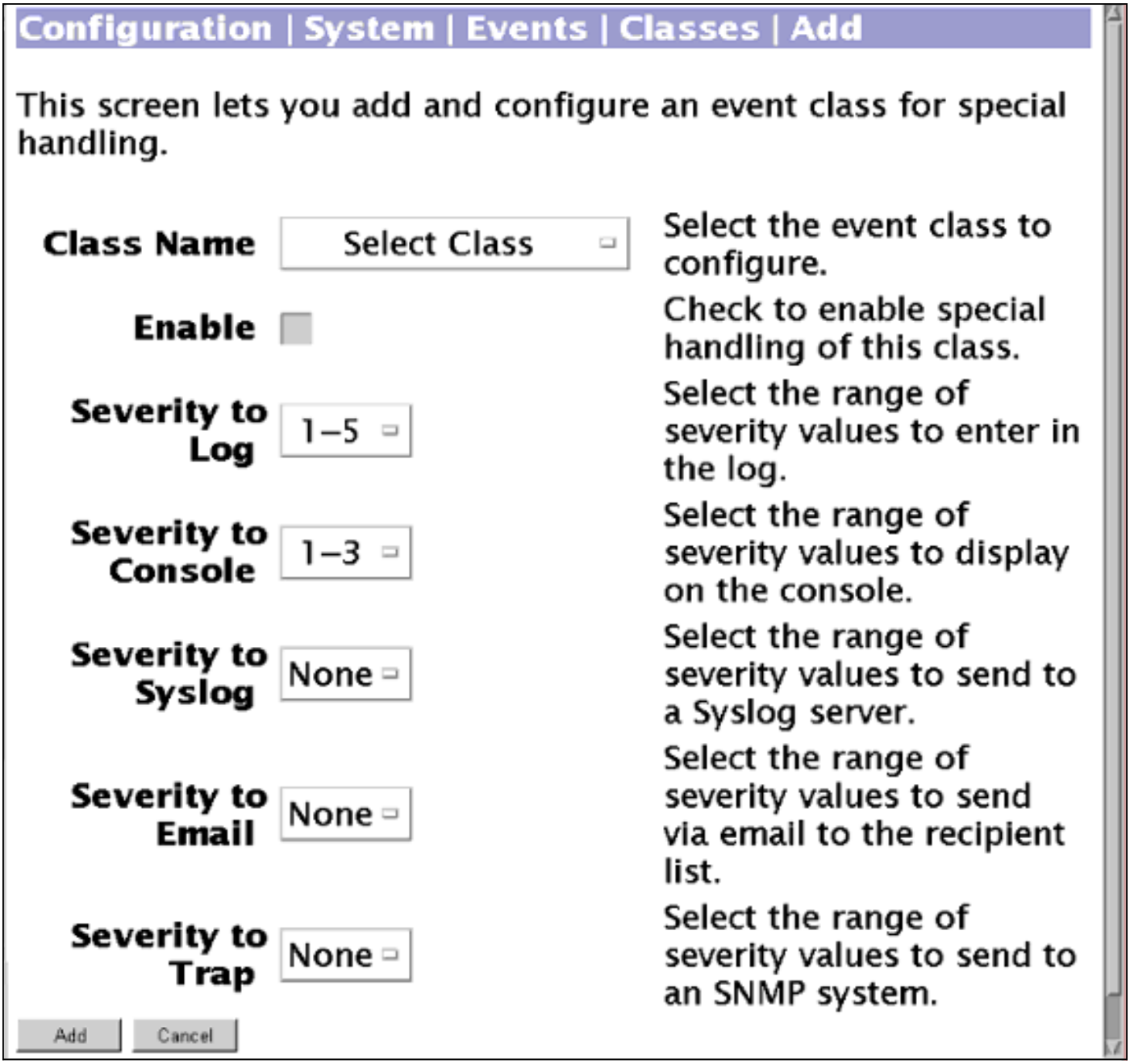
開啟VPN 3000集中器的調試

身份驗證的類名：

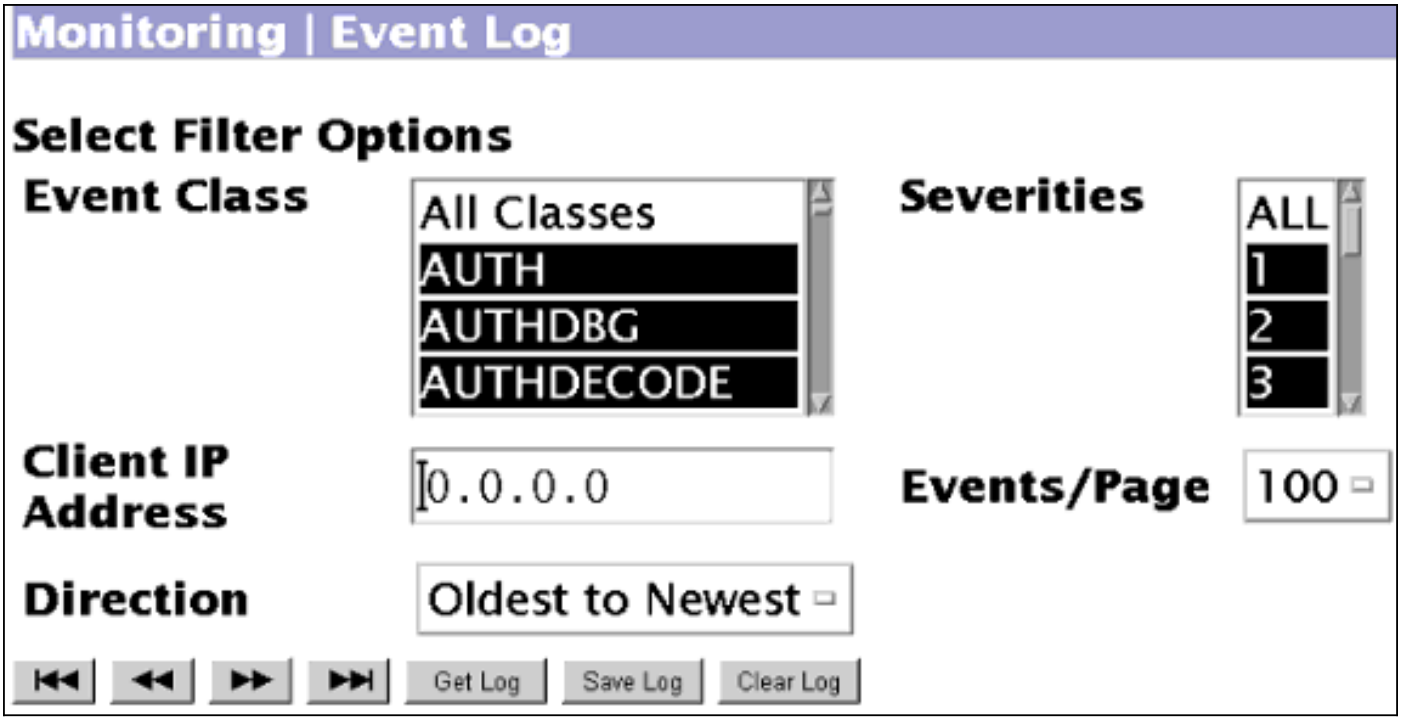
- 身份驗證
- AUTHDBG
- AUTHDECODE

IPSec的類名稱：

- IKE、IKEDBG、IKEDECODE
- IPSEC、IPSECDBG、IPSECDECODE
- 日誌嚴重性= 1-9
- 控制檯嚴重性= 1-3



按一下**Get Log**檢視調試操作的結果。



使用本地身份驗證進行良好的IPSec調試

```
1 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=1 161.44.17.135
ISAKMP HEADER :          ( Version 1.0 )
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  00 00 00 00 00 00 00 00
  Next Payload  :       SA (1)
  Exchange Type :       Oakley Aggressive Mode
  Flags         :       0
  Message ID    :       0
  Length        :       307

7 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=1 161.44.17.135
RECEIVED Message (msgid=0) with payloads :
HDR + SA (1) + KE (4) + NONCE (10) + ID (5) + VENDOR (13) + NONE (0)
... total length : 307

10 10/10/2000 17:12:32.560 SEV=9 IKEDBG/0 RPT=2 161.44.17.135
processing SA payload

11 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=2 161.44.17.135
SA Payload Decode :
  DOI           :       IPSEC (1)
  Situation     :       Identity Only (1)
  Length        :       120

14 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=3 161.44.17.135
Proposal Decode:
  Proposal #    :       1
  Protocol ID   :       ISAKMP (1)
  #of Transforms:       4
  Spi           :       00 00 00 00
  Length        :       108

18 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=4 161.44.17.135
Transform # 1 Decode for Proposal # 1:
  Transform #   :       1
  Transform ID  :       IKE (1)
```

```
  Length        :       24

20 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=5 161.44.17.135
Phase 1 SA Attribute Decode for Transform # 1:
  Encryption Alg:       DES-CBC (1)
  Hash Alg      :       MD5 (1)
  DH Group      :       Oakley Group 1 (1)
  Auth Method   :       Preshared Key (1)

24 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=6 161.44.17.135
Transform # 2 Decode for Proposal # 1:
  Transform #   :       2
  Transform ID  :       IKE (1)
  Length        :       24

26 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=7 161.44.17.135
Phase 1 SA Attribute Decode for Transform # 2:
  Encryption Alg:       Triple-DES (5)
  Hash Alg      :       MD5 (1)
  DH Group      :       Oakley Group 1 (1)
  Auth Method   :       Preshared Key (1)

30 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=8 161.44.17.135
Transform # 3 Decode for Proposal # 1:
  Transform #   :       3
  Transform ID  :       IKE (1)
  Length        :       24

32 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=9 161.44.17.135
Phase 1 SA Attribute Decode for Transform # 3:
  Encryption Alg:       Triple-DES (5)
  Hash Alg      :       SHA (2)
  DH Group      :       Oakley Group 1 (1)
  Auth Method   :       Preshared Key (1)

36 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=10 161.44.17.135
Transform # 4 Decode for Proposal # 1:
  Transform #   :       4
  Transform ID  :       IKE (1)
  Length        :       24

38 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=11 161.44.17.135
Phase 1 SA Attribute Decode for Transform # 4:
  Encryption Alg:       DES-CBC (1)
  Hash Alg      :       SHA (2)
  DH Group      :       Oakley Group 1 (1)
  Auth Method   :       Preshared Key (1)

42 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=3 161.44.17.135
Proposal # 1, Transform # 1, Type ISAKMP, Id IKE
Parsing received transform:
  Phase 1 failure against global IKE proposal # 1:
  Mismatched attr types for class DH Group:
    Rcv'd: Oakley Group 1
    Cfg'd: Oakley Group 2

47 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=4 161.44.17.135
  Phase 1 failure against global IKE proposal # 2:
  Mismatched attr types for class Encryption Alg:
    Rcv'd: DES-CBC
    Cfg'd: Triple-DES

50 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=5 161.44.17.135
Proposal # 1, Transform # 2, Type ISAKMP, Id IKE
```

```
Parsing received transform:
  Phase 1 failure against global IKE proposal # 1:
  Mismatched attr types for class DH Group:
    Rcv'd: Oakley Group 1
    Cfg'd: Oakley Group 2

55 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=6 161.44.17.135
Proposal # 1, Transform # 3, Type ISAKMP, Id IKE
Parsing received transform:
  Phase 1 failure against global IKE proposal # 1:
  Mismatched attr types for class DH Group:
    Rcv'd: Oakley Group 1
    Cfg'd: Oakley Group 2

60 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=7 161.44.17.135
  Phase 1 failure against global IKE proposal # 2:
  Mismatched attr types for class Hash Alg:
    Rcv'd: SHA
    Cfg'd: MD5

62 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=8 161.44.17.135
  Phase 1 failure against global IKE proposal # 3:
  Mismatched attr types for class Encryption Alg:
    Rcv'd: Triple-DES
    Cfg'd: DES-CBC

65 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=9 161.44.17.135
Proposal # 1, Transform # 4, Type ISAKMP, Id IKE
Parsing received transform:
  Phase 1 failure against global IKE proposal # 1:
  Mismatched attr types for class DH Group:
    Rcv'd: Oakley Group 1
    Cfg'd: Oakley Group 2

70 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=10 161.44.17.135
  Phase 1 failure against global IKE proposal # 2:
  Mismatched attr types for class Encryption Alg:
    Rcv'd: DES-CBC
    Cfg'd: Triple-DES

73 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=11 161.44.17.135
  Phase 1 failure against global IKE proposal # 3:
  Mismatched attr types for class Hash Alg:
    Rcv'd: SHA
    Cfg'd: MD5

75 10/10/2000 17:12:32.560 SEV=7 IKEDBG/0 RPT=12 161.44.17.135
Oakley proposal is acceptable

76 10/10/2000 17:12:32.560 SEV=9 IKEDBG/0 RPT=13 161.44.17.135
processing ke payload

77 10/10/2000 17:12:32.560 SEV=9 IKEDBG/0 RPT=14 161.44.17.135
processing ISA_KE

78 10/10/2000 17:12:32.560 SEV=9 IKEDBG/1 RPT=1 161.44.17.135
processing nonce payload

79 10/10/2000 17:12:32.560 SEV=9 IKEDBG/1 RPT=2 161.44.17.135
Processing ID

80 10/10/2000 17:12:32.560 SEV=9 IKEDBG/1 RPT=3 161.44.17.135
processing vid payload
```

```
81 10/10/2000 17:12:32.580 SEV=9 IKEDBG/23 RPT=1 161.44.17.135
Starting group lookup for peer 161.44.17.135

82 10/10/2000 17:12:32.680 SEV=7 IKEDBG/0 RPT=15 161.44.17.135
Found Phase 1 Group (vpn3000)

83 10/10/2000 17:12:32.680 SEV=7 IKEDBG/14 RPT=1 161.44.17.135
Authentication configured for Internal

84 10/10/2000 17:12:32.680 SEV=9 IKEDBG/0 RPT=16 161.44.17.135
constructing ISA_SA for isakmp

85 10/10/2000 17:12:32.680 SEV=9 IKEDBG/0 RPT=17 161.44.17.135
constructing ke payload

86 10/10/2000 17:12:32.680 SEV=9 IKEDBG/1 RPT=4 161.44.17.135
constructing nonce payload

87 10/10/2000 17:12:32.680 SEV=9 IKE/0 RPT=1 161.44.17.135
Generating keys for Responder...

88 10/10/2000 17:12:32.680 SEV=9 IKEDBG/1 RPT=5 161.44.17.135
constructing ID

89 10/10/2000 17:12:32.680 SEV=9 IKEDBG/0 RPT=18
construct hash payload

90 10/10/2000 17:12:32.680 SEV=9 IKEDBG/0 RPT=19 161.44.17.135
computing hash

91 10/10/2000 17:12:32.680 SEV=9 IKEDBG/1 RPT=6 161.44.17.135
constructing vid payload

92 10/10/2000 17:12:32.680 SEV=8 IKEDBG/0 RPT=20 161.44.17.135
SENDING Message (msgid=0) with payloads :
HDR + SA (1)  ... total length : 248

93 10/10/2000 17:12:32.730 SEV=8 IKEDECODE/0 RPT=12 161.44.17.135
ISAKMP HEADER :         ( Version 1.0 )
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  B7 AD 34 D2 74 4D 05 DA
  Next Payload  :       HASH (8)
  Exchange Type :       Oakley Aggressive Mode
  Flags         :       1   (ENCRYPT )
  Message ID    :       0
  Length        :       52

99 10/10/2000 17:12:32.730 SEV=8 IKEDBG/0 RPT=21 161.44.17.135
RECEIVED Message (msgid=0) with payloads :
HDR + HASH (8) + NONE (0) ... total length : 48

101 10/10/2000 17:12:32.730 SEV=9 IKEDBG/0 RPT=22 161.44.17.135
processing hash

102 10/10/2000 17:12:32.730 SEV=9 IKEDBG/0 RPT=23 161.44.17.135
computing hash

103 10/10/2000 17:12:33.410 SEV=8 IKEDECODE/0 RPT=13 161.44.17.135
ISAKMP HEADER :         ( Version 1.0 )
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  B7 AD 34 D2 74 4D 05 DA
  Next Payload  :       HASH (8)
  Exchange Type :       Oakley Quick Mode
  Flags         :       1   (ENCRYPT )
```

```
  Message ID    :       48687ca1
  Length        :       308

110 10/10/2000 17:12:33.410 SEV=9 IKEDBG/21 RPT=1 161.44.17.135
Delay Quick Mode processing, Cert/Trans Exch/RM DSID in progress

111 10/10/2000 17:12:33.410 SEV=9 IKEDBG/0 RPT=24 161.44.17.135
constructing blank hash

112 10/10/2000 17:12:33.410 SEV=9 IKEDBG/0 RPT=25 161.44.17.135
constructing qm hash

113 10/10/2000 17:12:33.410 SEV=8 IKEDBG/0 RPT=26 161.44.17.135
SENDING Message (msgid=fc2ce5eb) with payloads :
HDR + HASH (8)  ... total length : 68

115 10/10/2000 17:12:44.680 SEV=8 IKEDECODE/0 RPT=14 161.44.17.135
ISAKMP HEADER :         ( Version 1.0 )
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  B7 AD 34 D2 74 4D 05 DA
  Next Payload  :       HASH (8)
  Exchange Type :       Oakley Transactional
  Flags         :       1   (ENCRYPT )
  Message ID    :       fc2ce5eb
  Length        :       92

122 10/10/2000 17:12:44.680 SEV=8 IKEDBG/0 RPT=27 161.44.17.135
RECEIVED Message (msgid=fc2ce5eb) with payloads :
HDR + HASH (8) + ATTR (14) + NONE (0) ... total length : 85

124 10/10/2000 17:12:44.680 SEV=9 IKEDBG/1 RPT=7
process_attr(): Enter!

125 10/10/2000 17:12:44.680 SEV=9 IKEDBG/1 RPT=8
Processing cfg reply attributes.

126 10/10/2000 17:12:44.980 SEV=7 IKEDBG/14 RPT=2 161.44.17.135
User [ 37297304 ]
Authentication configured for Internal

127 10/10/2000 17:12:44.980 SEV=4 IKE/52 RPT=7 161.44.17.135
User [ 37297304 ]
User (37297304) authenticated.

128 10/10/2000 17:12:44.980 SEV=9 IKEDBG/31 RPT=1 161.44.17.135
User [ 37297304 ]
Obtained IP addr (192.168.1.1) prior to initiating Mode Cfg (XAuth enabled)

130 10/10/2000 17:12:44.980 SEV=9 IKEDBG/0 RPT=28 161.44.17.135
User [ 37297304 ]
constructing blank hash

131 10/10/2000 17:12:44.980 SEV=9 IKEDBG/0 RPT=29 161.44.17.135
0000: 00010004 C0A80101 F0010000                 ............

132 10/10/2000 17:12:44.980 SEV=9 IKEDBG/0 RPT=30 161.44.17.135
User [ 37297304 ]
constructing QM hash

133 10/10/2000 17:12:44.980 SEV=8 IKEDBG/0 RPT=31 161.44.17.135
SENDING Message (msgid=fc2ce5eb) with payloads :
HDR + HASH (8)  ... total length : 80

135 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=15 161.44.17.135
```

```
ISAKMP HEADER :         ( Version 1.0 )
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  B7 AD 34 D2 74 4D 05 DA
  Next Payload  :       HASH (8)
  Exchange Type :       Oakley Transactional
  Flags         :       1   (ENCRYPT )
  Message ID    :       fc2ce5eb
  Length        :       68

142 10/10/2000 17:12:44.990 SEV=8 IKEDBG/0 RPT=32 161.44.17.135
RECEIVED Message (msgid=fc2ce5eb) with payloads :
HDR + HASH (8) + ATTR (14) + NONE (0) ... total length : 64

144 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=9
process_attr(): Enter!

145 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=10
Processing cfg ACK attributes

146 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=11
Received IPV4 address ack!

147 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=12
Received Save PW ack!

148 10/10/2000 17:12:44.990 SEV=4 AUTH/21 RPT=18
User 37297304 connected

149 10/10/2000 17:12:44.990 SEV=7 IKEDBG/22 RPT=1 161.44.17.135
User [ 37297304 ]
Resume Quick Mode processing, Cert/Trans Exch/RM DSID completed

151 10/10/2000 17:12:44.990 SEV=8 IKEDBG/0 RPT=33 161.44.17.135
RECEIVED Message (msgid=48687ca1) with payloads :
HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) + NOTIFY (11) + NONE (0)
... total length : 304

154 10/10/2000 17:12:44.990 SEV=9 IKEDBG/0 RPT=34 161.44.17.135
User [ 37297304 ]
processing hash

155 10/10/2000 17:12:44.990 SEV=9 IKEDBG/0 RPT=35 161.44.17.135
User [ 37297304 ]
processing SA payload

156 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=16 161.44.17.135
SA Payload Decode :
  DOI           :       IPSEC (1)
  Situation     :       Identity Only (1)
  Length        :       180

159 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=17 161.44.17.135
Proposal Decode:
  Proposal #    :       1
  Protocol ID   :       ESP (3)
  #of Transforms:       1
  Spi           :       99 15 18 B4
  Length        :       28

163 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=18 161.44.17.135
Transform # 1 Decode for Proposal # 1:
  Transform #   :       1
  Transform ID  :       DES-CBC (2)
  Length        :       16
```

```
165 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=19 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       MD5 (1)
  Encapsulation :       Tunnel (1)

167 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=20 161.44.17.135
Proposal Decode:
  Proposal #    :       2
  Protocol ID   :       ESP (3)
  #of Transforms:       1
  Spi           :       99 15 18 B4
  Length        :       28

171 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=21 161.44.17.135
Transform # 1 Decode for Proposal # 2:
  Transform #   :       1
  Transform ID  :       Triple-DES (3)
  Length        :       16

173 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=22 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       MD5 (1)
  Encapsulation :       Tunnel (1)

175 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=23 161.44.17.135
Proposal Decode:
  Proposal #    :       3
  Protocol ID   :       ESP (3)
  #of Transforms:       1
  Spi           :       99 15 18 B4
  Length        :       28

179 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=24 161.44.17.135
Transform # 1 Decode for Proposal # 3:
  Transform #   :       1
  Transform ID  :       DES-CBC (2)
  Length        :       16

181 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=25 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       SHA (2)
  Encapsulation :       Tunnel (1)

183 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=26 161.44.17.135
Proposal Decode:
  Proposal #    :       4
  Protocol ID   :       ESP (3)
  #of Transforms:       1
  Spi           :       99 15 18 B4
  Length        :       28

187 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=27 161.44.17.135
Transform # 1 Decode for Proposal # 4:
  Transform #   :       1
  Transform ID  :       Triple-DES (3)
  Length        :       16

189 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=28 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       SHA (2)
  Encapsulation :       Tunnel (1)

191 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=29 161.44.17.135
```

```
Proposal Decode:
  Proposal #    :       5
  Protocol ID   :       ESP (3)
  #of Transforms:       1
  Spi           :       99 15 18 B4
  Length        :       28

195 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=30 161.44.17.135
Transform # 1 Decode for Proposal # 5:
  Transform #   :       1
  Transform ID  :       NULL (11)
  Length        :       16

197 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=31 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       MD5 (1)
  Encapsulation :       Tunnel (1)

199 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=32 161.44.17.135
Proposal Decode:
  Proposal #    :       6
  Protocol ID   :       ESP (3)
  #of Transforms:       1
  Spi           :       99 15 18 B4
  Length        :       28

203 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=33 161.44.17.135
Transform # 1 Decode for Proposal # 6:
  Transform #   :       1
  Transform ID  :       NULL (11)
  Length        :       16

205 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=34 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       SHA (2)
  Encapsulation :       Tunnel (1)

207 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=13 161.44.17.135
User [ 37297304 ]
processing nonce payload

208 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=14 161.44.17.135
User [ 37297304 ]
Processing ID

209 10/10/2000 17:12:44.990 SEV=5 IKE/25 RPT=13 161.44.17.135
User [ 37297304 ]
Received remote Proxy Host data in ID Payload:
Address 161.44.17.135, Protocol 0, Port 0

212 10/10/2000 17:12:44.990 SEV=7 IKEDBG/1 RPT=15 161.44.17.135
User [ 37297304 ]
Modifying client proxy src address!

213 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=16 161.44.17.135
User [ 37297304 ]
Processing ID

214 10/10/2000 17:12:44.990 SEV=5 IKE/24 RPT=7 161.44.17.135
User [ 37297304 ]
Received local Proxy Host data in ID Payload:
Address 172.18.124.134, Protocol 0, Port 0

217 10/10/2000 17:12:44.990 SEV=9 IKEDBG/0 RPT=36 161.44.17.135
```

```
User [ 37297304 ]
Processing Notify payload

218 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=35 161.44.17.135
Notify Payload Decode :
  DOI           :       IPSEC (1)
  Protocol      :       ISAKMP (1)
  Message       :       Initial contact (24578)
  Spi           :       9D F3 34 FE 89 BF AA B2 B7 AD 34 D2 74 4D 05 DA
  Length        :       28

224 10/10/2000 17:12:44.990 SEV=8 IKEDBG/0 RPT=37
QM IsRekeyed old sa not found by addr

225 10/10/2000 17:12:44.990 SEV=5 IKE/66 RPT=13 161.44.17.135
User [ 37297304 ]
IKE Remote Peer configured for SA: ESP-3DES-MD5

226 10/10/2000 17:12:44.990 SEV=9 IKEDBG/0 RPT=38 161.44.17.135
User [ 37297304 ]
processing IPSEC SA

227 10/10/2000 17:12:44.990 SEV=8 IKEDBG/0 RPT=39
Proposal # 1, Transform # 1, Type ESP, Id DES-CBC
Parsing received transform:
  Phase 2 failure:
  Mismatched transform IDs for protocol ESP:
    Rcv'd: DES-CBC
    Cfg'd: Triple-DES

232 10/10/2000 17:12:45.000 SEV=7 IKEDBG/27 RPT=1 161.44.17.135
User [ 37297304 ]
IPSec SA Proposal # 2, Transform # 1 acceptable

233 10/10/2000 17:12:45.000 SEV=7 IKEDBG/0 RPT=40 161.44.17.135
User [ 37297304 ]
IKE: requesting SPI!

234 10/10/2000 17:12:45.000 SEV=6 IKE/0 RPT=2
AM received unexpected event EV_ACTIVATE_NEW_SA in state AM_ACTIVE

235 10/10/2000 17:12:45.000 SEV=9 IPSECDBG/6 RPT=1
IPSEC key message parse - msgtype 6, len 164, vers 1, pid 00000000, seq 13,
err 0, type 2, mode 0, state 32, label 0, pad 0, spi 00000000, encrKeyLen 0,
hashKeyLen 0, ivlen 0, alg 0, hmacAlg 0, lifetype 0, lifetime1 300,
lifetime2 2000000000, dsId 2

239 10/10/2000 17:12:45.000 SEV=9 IPSECDBG/1 RPT=1
Processing KEY_GETSPI msg!

240 10/10/2000 17:12:45.000 SEV=7 IPSECDBG/13 RPT=1
Reserved SPI 1773955517

241 10/10/2000 17:12:45.000 SEV=8 IKEDBG/6 RPT=1
IKE got SPI from key engine: SPI = 0x69bc69bd

242 10/10/2000 17:12:45.000 SEV=9 IKEDBG/0 RPT=41 161.44.17.135
User [ 37297304 ]
oakley constructing quick mode

243 10/10/2000 17:12:45.000 SEV=9 IKEDBG/0 RPT=42 161.44.17.135
User [ 37297304 ]
constructing blank hash
```

```
244 10/10/2000 17:12:45.000 SEV=9 IKEDBG/0 RPT=43 161.44.17.135
User [ 37297304 ]
constructing ISA_SA for ipsec

245 10/10/2000 17:12:45.000 SEV=9 IKEDBG/1 RPT=17 161.44.17.135
User [ 37297304 ]
constructing ipsec nonce payload

246 10/10/2000 17:12:45.000 SEV=9 IKEDBG/1 RPT=18 161.44.17.135
User [ 37297304 ]
constructing proxy ID

247 10/10/2000 17:12:45.000 SEV=7 IKEDBG/0 RPT=44 161.44.17.135
User [ 37297304 ]
Transmitting Proxy Id:
  Remote host: 192.168.1.1  Protocol 0  Port 0
  Local host:  172.18.124.134  Protocol 0  Port 0

251 10/10/2000 17:12:45.000 SEV=9 IKEDBG/0 RPT=45 161.44.17.135
User [ 37297304 ]
constructing QM hash

252 10/10/2000 17:12:45.000 SEV=8 IKEDBG/0 RPT=46 161.44.17.135
SENDING Message (msgid=48687ca1) with payloads :
HDR + HASH (8)  ... total length : 136

254 10/10/2000 17:12:45.010 SEV=8 IKEDECODE/0 RPT=36 161.44.17.135
ISAKMP HEADER :         ( Version 1.0 )
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  B7 AD 34 D2 74 4D 05 DA
  Next Payload  :       HASH (8)
  Exchange Type :       Oakley Quick Mode
  Flags         :       1   (ENCRYPT )
  Message ID    :       48687ca1
  Length        :       52

261 10/10/2000 17:12:45.010 SEV=8 IKEDBG/0 RPT=47 161.44.17.135
RECEIVED Message (msgid=48687ca1) with payloads :
HDR + HASH (8) + NONE (0) ... total length : 48

263 10/10/2000 17:12:45.010 SEV=9 IKEDBG/0 RPT=48 161.44.17.135
User [ 37297304 ]
processing hash

264 10/10/2000 17:12:45.010 SEV=9 IKEDBG/0 RPT=49 161.44.17.135
User [ 37297304 ]
loading all IPSEC SAs

265 10/10/2000 17:12:45.010 SEV=9 IKEDBG/1 RPT=19 161.44.17.135
User [ 37297304 ]
Generating Quick Mode Key!

266 10/10/2000 17:12:45.010 SEV=9 IKEDBG/1 RPT=20 161.44.17.135
User [ 37297304 ]
Generating Quick Mode Key!

267 10/10/2000 17:12:45.020 SEV=7 IKEDBG/0 RPT=50 161.44.17.135
User [ 37297304 ]
Loading host:
  Dst: 172.18.124.134
  Src: 192.168.1.1

268 10/10/2000 17:12:45.020 SEV=4 IKE/49 RPT=13 161.44.17.135
User [ 37297304 ]
```

```
Security negotiation complete for User (37297304)
Responder, Inbound SPI = 0x69bc69bd, Outbound SPI = 0x991518b4

271 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/6 RPT=2
IPSEC key message parse - msgtype 1, Len 536, vers 1, pid 00000000, seq 0,
err 0, type 2, mode 1, state 64, label 0, pad 0, spi 991518b4, encrKeyLen 24,
hashKeyLen 16, ivlen 8, alg 2, hmacAlg 3, lifetype 0, lifetime1 0,
lifetime2 0, dsId 2

274 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=2
Processing KEY_ADD MSG!

275 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=3
key_msghdr2secassoc(): Enter

276 10/10/2000 17:12:45.020 SEV=7 IPSECDBG/1 RPT=4
No USER filter configured

277 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=5
KeyProcessAdd: Enter

278 10/10/2000 17:12:45.020 SEV=8 IPSECDBG/1 RPT=6
KeyProcessAdd: Adding outbound SA

279 10/10/2000 17:12:45.020 SEV=8 IPSECDBG/1 RPT=7
KeyProcessAdd: src 172.18.124.134 mask 0.0.0.0, dst 192.168.1.1 mask 0.0.0.0

280 10/10/2000 17:12:45.020 SEV=8 IPSECDBG/1 RPT=8
KeyProcessAdd: FilterIpsecAddIkeSa success

281 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/6 RPT=3
IPSEC key message parse - msgtype 3, Len 292, vers 1, pid 00000000, seq 0,
err 0, type 2, mode 1, state 32, label 0, pad 0, spi 69bc69bd, encrKeyLen 24,
hashKeyLen 16, ivlen 8, alg 2, hmacAlg 3, lifetype 0, lifetime1 0,
lifetime2 0, dsId 2

284 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=9
Processing KEY_UPDATE MSG!

285 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=10
Update inbound SA addresses

286 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=11
key_msghdr2secassoc(): Enter

287 10/10/2000 17:12:45.020 SEV=7 IPSECDBG/1 RPT=12
No USER filter configured

288 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=13
KeyProcessUpdate: Enter
289 10/10/2000 17:12:45.020 SEV=8 IPSECDBG/1 RPT=14
KeyProcessUpdate: success

290 10/10/2000 17:12:45.020 SEV=8 IKEDBG/7 RPT=1
IKE got a KEY_ADD MSG for SA: SPI = 0x991518b4

291 10/10/2000 17:12:45.020 SEV=8 IKEDBG/0 RPT=51
pitcher: rcv KEY_UPDATE, spi 0x69bc69bd
```

使用本地身份驗證進行良好的IPSec調試

```
1 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=1 161.44.17.135
ISAKMP HEADER :         ( Version 1.0 )
```

```
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  00 00 00 00 00 00 00 00
  Next Payload  :       SA (1)
  Exchange Type :       Oakley Aggressive Mode
  Flags         :       0
  Message ID    :       0
  Length        :       307

7 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=1 161.44.17.135
RECEIVED Message (msgid=0) with payloads :
HDR + SA (1) + KE (4) + NONCE (10) + ID (5) + VENDOR (13) + NONE (0)
... total length : 307

10 10/10/2000 17:12:32.560 SEV=9 IKEDBG/0 RPT=2 161.44.17.135
processing SA payload

11 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=2 161.44.17.135
SA Payload Decode :
  DOI           :       IPSEC (1)
  Situation     :       Identity Only (1)
  Length        :       120

14 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=3 161.44.17.135
Proposal Decode:
  Proposal #    :       1
  Protocol ID   :       ISAKMP (1)
  #of Transforms:       4
  Spi           :       00 00 00 00
  Length        :       108

18 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=4 161.44.17.135
Transform # 1 Decode for Proposal # 1:
  Transform #   :       1
  Transform ID  :       IKE (1)
  Length        :       24

20 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=5 161.44.17.135
Phase 1 SA Attribute Decode for Transform # 1:
  Encryption Alg:       DES-CBC (1)
  Hash Alg      :       MD5 (1)
  DH Group      :       Oakley Group 1 (1)
  Auth Method   :       Preshared Key (1)

24 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=6 161.44.17.135
Transform # 2 Decode for Proposal # 1:
  Transform #   :       2
  Transform ID  :       IKE (1)
  Length        :       24

26 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=7 161.44.17.135
Phase 1 SA Attribute Decode for Transform # 2:
  Encryption Alg:       Triple-DES (5)
  Hash Alg      :       MD5 (1)
  DH Group      :       Oakley Group 1 (1)
  Auth Method   :       Preshared Key (1)

30 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=8 161.44.17.135
Transform # 3 Decode for Proposal # 1:
  Transform #   :       3
  Transform ID  :       IKE (1)
  Length        :       24

32 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=9 161.44.17.135
Phase 1 SA Attribute Decode for Transform # 3:
```

```
  Encryption Alg:       Triple-DES (5)
  Hash Alg      :       SHA (2)
  DH Group      :       Oakley Group 1 (1)
  Auth Method   :       Preshared Key (1)

36 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=10 161.44.17.135
Transform # 4 Decode for Proposal # 1:
  Transform #   :       4
  Transform ID  :       IKE (1)
  Length        :       24

38 10/10/2000 17:12:32.560 SEV=8 IKEDECODE/0 RPT=11 161.44.17.135
Phase 1 SA Attribute Decode for Transform # 4:
  Encryption Alg:       DES-CBC (1)
  Hash Alg      :       SHA (2)
  DH Group      :       Oakley Group 1 (1)
  Auth Method   :       Preshared Key (1)

42 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=3 161.44.17.135
Proposal # 1, Transform # 1, Type ISAKMP, Id IKE
Parsing received transform:
  Phase 1 failure against global IKE proposal # 1:
  Mismatched attr types for class DH Group:
    Rcv'd: Oakley Group 1
    Cfg'd: Oakley Group 2

47 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=4 161.44.17.135
  Phase 1 failure against global IKE proposal # 2:
  Mismatched attr types for class Encryption Alg:
    Rcv'd: DES-CBC
    Cfg'd: Triple-DES

50 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=5 161.44.17.135
Proposal # 1, Transform # 2, Type ISAKMP, Id IKE
Parsing received transform:
  Phase 1 failure against global IKE proposal # 1:
  Mismatched attr types for class DH Group:
    Rcv'd: Oakley Group 1
    Cfg'd: Oakley Group 2

55 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=6 161.44.17.135
Proposal # 1, Transform # 3, Type ISAKMP, Id IKE
Parsing received transform:
  Phase 1 failure against global IKE proposal # 1:
  Mismatched attr types for class DH Group:
    Rcv'd: Oakley Group 1
    Cfg'd: Oakley Group 2

60 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=7 161.44.17.135
  Phase 1 failure against global IKE proposal # 2:
  Mismatched attr types for class Hash Alg:
    Rcv'd: SHA
    Cfg'd: MD5

62 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=8 161.44.17.135
  Phase 1 failure against global IKE proposal # 3:
  Mismatched attr types for class Encryption Alg:
    Rcv'd: Triple-DES
    Cfg'd: DES-CBC

65 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=9 161.44.17.135
Proposal # 1, Transform # 4, Type ISAKMP, Id IKE
Parsing received transform:
  Phase 1 failure against global IKE proposal # 1:
```

```
  Mismatched attr types for class DH Group:
    Rcv'd: Oakley Group 1
    Cfg'd: Oakley Group 2

70 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=10 161.44.17.135
  Phase 1 failure against global IKE proposal # 2:
  Mismatched attr types for class Encryption Alg:
    Rcv'd: DES-CBC
    Cfg'd: Triple-DES

73 10/10/2000 17:12:32.560 SEV=8 IKEDBG/0 RPT=11 161.44.17.135
  Phase 1 failure against global IKE proposal # 3:
  Mismatched attr types for class Hash Alg:
    Rcv'd: SHA
    Cfg'd: MD5

75 10/10/2000 17:12:32.560 SEV=7 IKEDBG/0 RPT=12 161.44.17.135
Oakley proposal is acceptable

76 10/10/2000 17:12:32.560 SEV=9 IKEDBG/0 RPT=13 161.44.17.135
processing ke payload

77 10/10/2000 17:12:32.560 SEV=9 IKEDBG/0 RPT=14 161.44.17.135
processing ISA_KE

78 10/10/2000 17:12:32.560 SEV=9 IKEDBG/1 RPT=1 161.44.17.135
processing nonce payload

79 10/10/2000 17:12:32.560 SEV=9 IKEDBG/1 RPT=2 161.44.17.135
Processing ID

80 10/10/2000 17:12:32.560 SEV=9 IKEDBG/1 RPT=3 161.44.17.135
processing vid payload

81 10/10/2000 17:12:32.580 SEV=9 IKEDBG/23 RPT=1 161.44.17.135
Starting group lookup for peer 161.44.17.135

82 10/10/2000 17:12:32.680 SEV=7 IKEDBG/0 RPT=15 161.44.17.135
Found Phase 1 Group (vpn3000)

83 10/10/2000 17:12:32.680 SEV=7 IKEDBG/14 RPT=1 161.44.17.135
Authentication configured for Internal

84 10/10/2000 17:12:32.680 SEV=9 IKEDBG/0 RPT=16 161.44.17.135
constructing ISA_SA for isakmp

85 10/10/2000 17:12:32.680 SEV=9 IKEDBG/0 RPT=17 161.44.17.135
constructing ke payload

86 10/10/2000 17:12:32.680 SEV=9 IKEDBG/1 RPT=4 161.44.17.135
constructing nonce payload

87 10/10/2000 17:12:32.680 SEV=9 IKE/0 RPT=1 161.44.17.135
Generating keys for Responder...

88 10/10/2000 17:12:32.680 SEV=9 IKEDBG/1 RPT=5 161.44.17.135
constructing ID

89 10/10/2000 17:12:32.680 SEV=9 IKEDBG/0 RPT=18
construct hash payload

90 10/10/2000 17:12:32.680 SEV=9 IKEDBG/0 RPT=19 161.44.17.135
computing hash
```

```
91 10/10/2000 17:12:32.680 SEV=9 IKEDBG/1 RPT=6 161.44.17.135
constructing vid payload

92 10/10/2000 17:12:32.680 SEV=8 IKEDBG/0 RPT=20 161.44.17.135
SENDING Message (msgid=0) with payloads :
HDR + SA (1)  ... total length : 248

93 10/10/2000 17:12:32.730 SEV=8 IKEDECODE/0 RPT=12 161.44.17.135
ISAKMP HEADER :          ( Version 1.0 )
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  B7 AD 34 D2 74 4D 05 DA
  Next Payload  :       HASH (8)
  Exchange Type :       Oakley Aggressive Mode
  Flags         :       1   (ENCRYPT )
  Message ID    :       0
  Length        :       52

99 10/10/2000 17:12:32.730 SEV=8 IKEDBG/0 RPT=21 161.44.17.135
RECEIVED Message (msgid=0) with payloads :
HDR + HASH (8) + NONE (0) ... total length : 48

101 10/10/2000 17:12:32.730 SEV=9 IKEDBG/0 RPT=22 161.44.17.135
processing hash

102 10/10/2000 17:12:32.730 SEV=9 IKEDBG/0 RPT=23 161.44.17.135
computing hash

103 10/10/2000 17:12:33.410 SEV=8 IKEDECODE/0 RPT=13 161.44.17.135
ISAKMP HEADER :          ( Version 1.0 )
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  B7 AD 34 D2 74 4D 05 DA
  Next Payload  :       HASH (8)
  Exchange Type :       Oakley Quick Mode
  Flags         :       1   (ENCRYPT )
  Message ID    :       48687ca1
  Length        :       308

110 10/10/2000 17:12:33.410 SEV=9 IKEDBG/21 RPT=1 161.44.17.135
Delay Quick Mode processing, Cert/Trans Exch/RM DSID in progress

111 10/10/2000 17:12:33.410 SEV=9 IKEDBG/0 RPT=24 161.44.17.135
constructing blank hash

112 10/10/2000 17:12:33.410 SEV=9 IKEDBG/0 RPT=25 161.44.17.135
constructing qm hash

113 10/10/2000 17:12:33.410 SEV=8 IKEDBG/0 RPT=26 161.44.17.135
SENDING Message (msgid=fc2ce5eb) with payloads :
HDR + HASH (8)  ... total length : 68

115 10/10/2000 17:12:44.680 SEV=8 IKEDECODE/0 RPT=14 161.44.17.135
ISAKMP HEADER :          ( Version 1.0 )
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  B7 AD 34 D2 74 4D 05 DA
  Next Payload  :       HASH (8)
  Exchange Type :       Oakley Transactional
  Flags         :       1   (ENCRYPT )
  Message ID    :       fc2ce5eb
  Length        :       92

122 10/10/2000 17:12:44.680 SEV=8 IKEDBG/0 RPT=27 161.44.17.135
RECEIVED Message (msgid=fc2ce5eb) with payloads :
HDR + HASH (8) + ATTR (14) + NONE (0) ... total length : 85
```

```
124 10/10/2000 17:12:44.680 SEV=9 IKEDBG/1 RPT=7
process_attr(): Enter!

125 10/10/2000 17:12:44.680 SEV=9 IKEDBG/1 RPT=8
Processing cfg reply attributes.

126 10/10/2000 17:12:44.980 SEV=7 IKEDBG/14 RPT=2 161.44.17.135
User [ 37297304 ]
Authentication configured for Internal

127 10/10/2000 17:12:44.980 SEV=4 IKE/52 RPT=7 161.44.17.135
User [ 37297304 ]
User (37297304) authenticated.

128 10/10/2000 17:12:44.980 SEV=9 IKEDBG/31 RPT=1 161.44.17.135
User [ 37297304 ]
Obtained IP addr (192.168.1.1) prior to initiating Mode Cfg (XAuth enabled)

130 10/10/2000 17:12:44.980 SEV=9 IKEDBG/0 RPT=28 161.44.17.135
User [ 37297304 ]
constructing blank hash

131 10/10/2000 17:12:44.980 SEV=9 IKEDBG/0 RPT=29 161.44.17.135
0000: 00010004 C0A80101 F0010000                 ............

132 10/10/2000 17:12:44.980 SEV=9 IKEDBG/0 RPT=30 161.44.17.135
User [ 37297304 ]
constructing QM hash

133 10/10/2000 17:12:44.980 SEV=8 IKEDBG/0 RPT=31 161.44.17.135
SENDING Message (msgid=fc2ce5eb) with payloads :
HDR + HASH (8)  ... total length : 80

135 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=15 161.44.17.135
ISAKMP HEADER :         ( Version 1.0 )
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  B7 AD 34 D2 74 4D 05 DA
  Next Payload  :       HASH (8)
  Exchange Type :       Oakley Transactional
  Flags         :       1   (ENCRYPT )
  Message ID    :       fc2ce5eb
  Length        :       68

142 10/10/2000 17:12:44.990 SEV=8 IKEDBG/0 RPT=32 161.44.17.135
RECEIVED Message (msgid=fc2ce5eb) with payloads :
HDR + HASH (8) + ATTR (14) + NONE (0) ... total length : 64

144 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=9
process_attr(): Enter!

145 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=10
Processing cfg ACK attributes

146 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=11
Received IPV4 address ack!

147 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=12
Received Save PW ack!

148 10/10/2000 17:12:44.990 SEV=4 AUTH/21 RPT=18
User 37297304 connected

149 10/10/2000 17:12:44.990 SEV=7 IKEDBG/22 RPT=1 161.44.17.135
User [ 37297304 ]
```

```
Resume Quick Mode processing, Cert/Trans Exch/RM DSID completed

151 10/10/2000 17:12:44.990 SEV=8 IKEDBG/0 RPT=33 161.44.17.135
RECEIVED Message (msgid=48687ca1) with payloads :
HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) + NOTIFY (11) + NONE (0)
... total length : 304

154 10/10/2000 17:12:44.990 SEV=9 IKEDBG/0 RPT=34 161.44.17.135
User [ 37297304 ]
processing hash

155 10/10/2000 17:12:44.990 SEV=9 IKEDBG/0 RPT=35 161.44.17.135
User [ 37297304 ]
processing SA payload

156 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=16 161.44.17.135
SA Payload Decode :
  DOI           :       IPSEC (1)
  Situation     :       Identity Only (1)
  Length        :       180

159 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=17 161.44.17.135
Proposal Decode:
  Proposal #    :       1
  Protocol ID   :       ESP (3)
  #of Transforms:       1
  Spi           :       99 15 18 B4
  Length        :       28

163 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=18 161.44.17.135
Transform # 1 Decode for Proposal # 1:
  Transform #   :       1
  Transform ID  :       DES-CBC (2)
  Length        :       16

165 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=19 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       MD5 (1)
  Encapsulation :       Tunnel (1)

167 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=20 161.44.17.135
Proposal Decode:
  Proposal #    :       2
  Protocol ID   :       ESP (3)
  #of Transforms:       1
  Spi           :       99 15 18 B4
  Length        :       28

171 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=21 161.44.17.135
Transform # 1 Decode for Proposal # 2:
  Transform #   :       1
  Transform ID  :       Triple-DES (3)
  Length        :       16

173 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=22 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       MD5 (1)
  Encapsulation :       Tunnel (1)

175 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=23 161.44.17.135
Proposal Decode:
  Proposal #    :       3
  Protocol ID   :       ESP (3)
  #of Transforms:       1
```

```
  Spi            :       99 15 18 B4
  Length         :       28

179 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=24 161.44.17.135
Transform # 1 Decode for Proposal # 3:
  Transform #    :       1
  Transform ID   :       DES-CBC (2)
  Length         :       16

181 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=25 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       SHA (2)
  Encapsulation :       Tunnel (1)

183 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=26 161.44.17.135
Proposal Decode:
  Proposal #     :       4
  Protocol ID    :       ESP (3)
  #of Transforms:       1
  Spi            :       99 15 18 B4
  Length         :       28

187 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=27 161.44.17.135
Transform # 1 Decode for Proposal # 4:
  Transform #    :       1
  Transform ID   :       Triple-DES (3)
  Length         :       16

189 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=28 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       SHA (2)
  Encapsulation :       Tunnel (1)

191 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=29 161.44.17.135
Proposal Decode:
  Proposal #     :       5
  Protocol ID    :       ESP (3)
  #of Transforms:       1
  Spi            :       99 15 18 B4
  Length         :       28

195 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=30 161.44.17.135
Transform # 1 Decode for Proposal # 5:
  Transform #    :       1
  Transform ID   :       NULL (11)
  Length         :       16

197 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=31 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       MD5 (1)
  Encapsulation :       Tunnel (1)

199 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=32 161.44.17.135
Proposal Decode:
  Proposal #     :       6
  Protocol ID    :       ESP (3)
  #of Transforms:       1
  Spi            :       99 15 18 B4
  Length         :       28

203 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=33 161.44.17.135
Transform # 1 Decode for Proposal # 6:
  Transform #    :       1
  Transform ID   :       NULL (11)
```

```
  Length        :       16

205 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=34 161.44.17.135
Phase 2 SA Attribute Decode for Transform # 1:
  HMAC Algorithm:       SHA (2)
  Encapsulation :       Tunnel (1)

207 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=13 161.44.17.135
User [ 37297304 ]
processing nonce payload

208 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=14 161.44.17.135
User [ 37297304 ]
Processing ID

209 10/10/2000 17:12:44.990 SEV=5 IKE/25 RPT=13 161.44.17.135
User [ 37297304 ]
Received remote Proxy Host data in ID Payload:
Address 161.44.17.135, Protocol 0, Port 0

212 10/10/2000 17:12:44.990 SEV=7 IKEDBG/1 RPT=15 161.44.17.135
User [ 37297304 ]
Modifying client proxy src address!

213 10/10/2000 17:12:44.990 SEV=9 IKEDBG/1 RPT=16 161.44.17.135
User [ 37297304 ]
Processing ID

214 10/10/2000 17:12:44.990 SEV=5 IKE/24 RPT=7 161.44.17.135
User [ 37297304 ]
Received local Proxy Host data in ID Payload:
Address 172.18.124.134, Protocol 0, Port 0

217 10/10/2000 17:12:44.990 SEV=9 IKEDBG/0 RPT=36 161.44.17.135
User [ 37297304 ]
Processing Notify payload

218 10/10/2000 17:12:44.990 SEV=8 IKEDECODE/0 RPT=35 161.44.17.135
Notify Payload Decode :
  DOI           :       IPSEC (1)
  Protocol      :       ISAKMP (1)
  Message       :       Initial contact (24578)
  Spi           :       9D F3 34 FE 89 BF AA B2 B7 AD 34 D2 74 4D 05 DA
  Length        :       28

224 10/10/2000 17:12:44.990 SEV=8 IKEDBG/0 RPT=37
QM IsRekeyed old sa not found by addr

225 10/10/2000 17:12:44.990 SEV=5 IKE/66 RPT=13 161.44.17.135
User [ 37297304 ]
IKE Remote Peer configured for SA: ESP-3DES-MD5

226 10/10/2000 17:12:44.990 SEV=9 IKEDBG/0 RPT=38 161.44.17.135
User [ 37297304 ]
processing IPSEC SA

227 10/10/2000 17:12:44.990 SEV=8 IKEDBG/0 RPT=39
Proposal # 1, Transform # 1, Type ESP, Id DES-CBC
Parsing received transform:
  Phase 2 failure:
  Mismatched transform IDs for protocol ESP:
    Rcv'd: DES-CBC
    Cfg'd: Triple-DES
```

```
232 10/10/2000 17:12:45.000 SEV=7 IKEDBG/27 RPT=1 161.44.17.135
User [ 37297304 ]
IPSec SA Proposal # 2, Transform # 1 acceptable

233 10/10/2000 17:12:45.000 SEV=7 IKEDBG/0 RPT=40 161.44.17.135
User [ 37297304 ]
IKE: requesting SPI!

234 10/10/2000 17:12:45.000 SEV=6 IKE/0 RPT=2
AM received unexpected event EV_ACTIVATE_NEW_SA in state AM_ACTIVE

235 10/10/2000 17:12:45.000 SEV=9 IPSECDBG/6 RPT=1
IPSEC key message parse - msgtype 6, len 164, vers 1, pid 00000000, seq 13,
err 0, type 2, mode 0, state 32, label 0, pad 0, spi 00000000, encrKeyLen 0,
hashKeyLen 0, ivlen 0, alg 0, hmacAlg 0, lifetype 0, lifetime1 300,
lifetime2 2000000000, dsId 2

239 10/10/2000 17:12:45.000 SEV=9 IPSECDBG/1 RPT=1
Processing KEY_GETSPI msg!

240 10/10/2000 17:12:45.000 SEV=7 IPSECDBG/13 RPT=1
Reserved SPI 1773955517

241 10/10/2000 17:12:45.000 SEV=8 IKEDBG/6 RPT=1
IKE got SPI from key engine: SPI = 0x69bc69bd

242 10/10/2000 17:12:45.000 SEV=9 IKEDBG/0 RPT=41 161.44.17.135
User [ 37297304 ]
oakley constructing quick mode

243 10/10/2000 17:12:45.000 SEV=9 IKEDBG/0 RPT=42 161.44.17.135
User [ 37297304 ]
constructing blank hash

244 10/10/2000 17:12:45.000 SEV=9 IKEDBG/0 RPT=43 161.44.17.135
User [ 37297304 ]
constructing ISA_SA for ipsec

245 10/10/2000 17:12:45.000 SEV=9 IKEDBG/1 RPT=17 161.44.17.135
User [ 37297304 ]
constructing ipsec nonce payload

246 10/10/2000 17:12:45.000 SEV=9 IKEDBG/1 RPT=18 161.44.17.135
User [ 37297304 ]
constructing proxy ID

247 10/10/2000 17:12:45.000 SEV=7 IKEDBG/0 RPT=44 161.44.17.135
User [ 37297304 ]
Transmitting Proxy Id:
  Remote host: 192.168.1.1  Protocol 0  Port 0
  Local host:  172.18.124.134  Protocol 0  Port 0

251 10/10/2000 17:12:45.000 SEV=9 IKEDBG/0 RPT=45 161.44.17.135
User [ 37297304 ]
constructing QM hash

252 10/10/2000 17:12:45.000 SEV=8 IKEDBG/0 RPT=46 161.44.17.135
SENDING Message (msgid=48687ca1) with payloads :
HDR + HASH (8)  ... total length : 136

254 10/10/2000 17:12:45.010 SEV=8 IKEDECODE/0 RPT=36 161.44.17.135
ISAKMP HEADER :          ( Version 1.0 )
  Initiator Cookie(8):  9D F3 34 FE 89 BF AA B2
  Responder Cookie(8):  B7 AD 34 D2 74 4D 05 DA
```

```
  Next Payload  :       HASH (8)
  Exchange Type :       Oakley Quick Mode
  Flags         :       1   (ENCRYPT )
  Message ID    :       48687ca1
  Length        :       52

261 10/10/2000 17:12:45.010 SEV=8 IKEDBG/0 RPT=47 161.44.17.135
RECEIVED Message (msgid=48687ca1) with payloads :
HDR + HASH (8) + NONE (0) ... total length : 48

263 10/10/2000 17:12:45.010 SEV=9 IKEDBG/0 RPT=48 161.44.17.135
User [ 37297304 ]
processing hash

264 10/10/2000 17:12:45.010 SEV=9 IKEDBG/0 RPT=49 161.44.17.135
User [ 37297304 ]
loading all IPSEC SAs

265 10/10/2000 17:12:45.010 SEV=9 IKEDBG/1 RPT=19 161.44.17.135
User [ 37297304 ]
Generating Quick Mode Key!

266 10/10/2000 17:12:45.010 SEV=9 IKEDBG/1 RPT=20 161.44.17.135
User [ 37297304 ]
Generating Quick Mode Key!

267 10/10/2000 17:12:45.020 SEV=7 IKEDBG/0 RPT=50 161.44.17.135
User [ 37297304 ]
Loading host:
  Dst: 172.18.124.134
  Src: 192.168.1.1

268 10/10/2000 17:12:45.020 SEV=4 IKE/49 RPT=13 161.44.17.135
User [ 37297304 ]
Security negotiation complete for User (37297304)
Responder, Inbound SPI = 0x69bc69bd, Outbound SPI = 0x991518b4

271 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/6 RPT=2
IPSEC key message parse - msgtype 1, Len 536, vers 1, pid 00000000, seq 0,
err 0, type 2, mode 1, state 64, label 0, pad 0, spi 991518b4, encrKeyLen 24,
hashKeyLen 16, ivlen 8, alg 2, hmacAlg 3, lifetype 0, lifetime1 0,
lifetime2 0, dsId 2

274 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=2
Processing KEY_ADD MSG!

275 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=3
key_msghdr2secassoc(): Enter

276 10/10/2000 17:12:45.020 SEV=7 IPSECDBG/1 RPT=4
No USER filter configured

277 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=5
KeyProcessAdd: Enter

278 10/10/2000 17:12:45.020 SEV=8 IPSECDBG/1 RPT=6
KeyProcessAdd: Adding outbound SA

279 10/10/2000 17:12:45.020 SEV=8 IPSECDBG/1 RPT=7
KeyProcessAdd: src 172.18.124.134 mask 0.0.0.0, dst 192.168.1.1 mask 0.0.0.0

280 10/10/2000 17:12:45.020 SEV=8 IPSECDBG/1 RPT=8
KeyProcessAdd: FilterIpsecAddIkeSa success
```

```
281 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/6 RPT=3
IPSEC key message parse - msgtype 3, Len 292, vers 1, pid 00000000, seq 0,
err 0, type 2, mode 1, state 32, label 0, pad 0, spi 69bc69bd, encrKeyLen 24,
hashKeyLen 16, ivlen 8, alg 2, hmacAlg 3, lifetype 0, lifetime1 0,
lifetime2 0, dsId 2

284 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=9
Processing KEY_UPDATE MSG!

285 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=10
Update inbound SA addresses

286 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=11
key_msghdr2secassoc(): Enter

287 10/10/2000 17:12:45.020 SEV=7 IPSECDBG/1 RPT=12
No USER filter configured

288 10/10/2000 17:12:45.020 SEV=9 IPSECDBG/1 RPT=13
KeyProcessUpdate: Enter
289 10/10/2000 17:12:45.020 SEV=8 IPSECDBG/1 RPT=14
KeyProcessUpdate: success

290 10/10/2000 17:12:45.020 SEV=8 IKEDBG/7 RPT=1
IKE got a KEY_ADD MSG for SA: SPI = 0x991518b4

291 10/10/2000 17:12:45.020 SEV=8 IKEDBG/0 RPT=51
pitcher: rcv KEY_UPDATE, spi 0x69bc69bd
```

使用SDI進行良好調試

SDI調試

如果成功（SDI上的首次身份驗證）

```
10/06/2000   11:57:04/U   37297304/vpn3000            000037297304/37297304
372
10/06/2000   11:57:04/L   Node Secret Sent to Client   zekie.cisco.com
10/06/2000   15:57:05/U   37297304/vpn3000            000037297304/37297304
372
10/06/2000   11:57:05/U   PASSCODE Accepted            zekie.cisco.com
```

如果成功（在SDI上進行第一次身份驗證之後）

```
10/06/2000   16:06:09U    37297304/vpn3000            000037297304/37297304
372
10/06/2000   12:06:09L    PASSCODE Accepted            zekie.cisco.com
```

VPN 3000 Concentrator Debug(on test)

為身份驗證調試「類名」：

- 身份驗證
- AUTHDBG
- AUTHDECODE

```
4 10/06/2000 14:09:25.000 SEV=8 AUTHDBG/1 RPT=1
AUTH_Open() returns 14
```

```
5 10/06/2000 14:09:25.000 SEV=7 AUTH/12 RPT=1
Authentication session opened: handle = 14

6 10/06/2000 14:09:25.000 SEV=8 AUTHDBG/3 RPT=1
AUTH_PutAttrTable(14, 5a2aa0)

7 10/06/2000 14:09:25.000 SEV=8 AUTHDBG/5 RPT=1
AUTH_Authenticate(14, e5187e0, 306bdc)

8 10/06/2000 14:09:25.000 SEV=8 AUTHDBG/59 RPT=1
AUTH_BindServer(71e097c, 0, 0)

9 10/06/2000 14:09:25.000 SEV=9 AUTHDBG/69 RPT=1
Auth Server 649ab4 has been bound to ACB 71e097c, sessions = 1

10 10/06/2000 14:09:25.000 SEV=8 AUTHDBG/65 RPT=1
AUTH_CreateTimer(71e097c, 0, 0)

11 10/06/2000 14:09:25.000 SEV=9 AUTHDBG/72 RPT=1
Reply timer created: handle = 490011

12 10/06/2000 14:09:25.000 SEV=8 AUTHDBG/61 RPT=1
AUTH_BuildMsg(71e097c, 0, 0)

13 10/06/2000 14:09:25.000 SEV=8 AUTHDBG/51 RPT=1
Sdi_Build(71e097c)

14 10/06/2000 14:09:25.010 SEV=8 AUTHDBG/64 RPT=1
AUTH_StartTimer(71e097c, 0, 0)

15 10/06/2000 14:09:25.010 SEV=9 AUTHDBG/73 RPT=1
Reply timer started: handle = 490011, timestamp = 8553930, timeout = 4000

16 10/06/2000 14:09:25.010 SEV=8 AUTHDBG/62 RPT=1
AUTH_SndRequest(71e097c, 0, 0)

17 10/06/2000 14:09:25.010 SEV=8 AUTHDBG/52 RPT=1

Sdi_Xmt(71e097c)

18 10/06/2000 14:09:25.010 SEV=9 AUTHDBG/71 RPT=1
xmit_cnt = 1

19 10/06/2000 14:09:26.080 SEV=8 AUTHDBG/63 RPT=1
AUTH_RcvReply(71e097c, 0, 0)

20 10/06/2000 14:09:26.080 SEV=8 AUTHDBG/53 RPT=1
Sdi_Rcv(71e097c)

21 10/06/2000 14:09:26.080 SEV=8 AUTHDBG/66 RPT=1
AUTH_DeleteTimer(71e097c, 0, 0)

22 10/06/2000 14:09:26.080 SEV=9 AUTHDBG/74 RPT=1
Reply timer stopped: handle = 490011, timestamp = 8554037

23 10/06/2000 14:09:26.080 SEV=8 AUTHDBG/58 RPT=1
AUTH_Callback(71e097c, 0, 0)

24 10/06/2000 14:09:26.080 SEV=6 AUTH/4 RPT=1
Authentication successful: handle = 14, server = 172.18.124.99, user = 37297304

25 10/06/2000 14:09:26.080 SEV=8 AUTHDBG/2 RPT=1
AUTH_Close(14)
```

```
26 10/06/2000 14:09:26.080 SEV=8 AUTHDBG/60 RPT=1
AUTH_UnbindServer(71e097c, 0, 0)

27 10/06/2000 14:09:26.080 SEV=9 AUTHDBG/70 RPT=1
Auth Server 649ab4 has been unbound from ACB 71e097c, sessions = 0

28 10/06/2000 14:09:26.080 SEV=8 AUTHDBG/10 RPT=1
AUTH_Int_FreeAuthCB(71e097c)

29 10/06/2000 14:09:26.080 SEV=9 AUTHDBG/19 RPT=1
instance = 15, clone_instance = 0

30 10/06/2000 14:09:26.080 SEV=7 AUTH/13 RPT=1
Authentication session closed: handle = 14
```

調試錯誤

使用者名稱錯誤或未在客戶端啟用使用者

SDI調試

```
10/06/2000 16:30:21U junk/vpn3000
10/06/2000 12:30:21L User Not on Client zekie.cisco.com
```

VPN 3000偵錯

```
21 10/06/2000 14:20:06.310 SEV=3 AUTH/5 RPT=5
Authentication rejected: Reason = Unspecified
handle = 15, server = 172.18.124.99, user = junk
```

使用者名稱正確，密碼錯誤

SDI調試

```
10/06/2000 16:33:07U 37297304/vpn3000   000037297304/37297304 372
10/06/2000 12:33:07L ACCESS DENIED, PASSCODE Incorrect zekie.cisco.com
```

VPN 3000偵錯

```
249 10/06/2000 14:22:52.160 SEV=3 AUTH/5 RPT=6
Authentication rejected: Reason = Unspecified
handle = 16, server = 172.18.124.99, user = 37297304
```

SDI伺服器無法訪問或守護程式關閉

SDI調試

不顯示任何內容（未接收請求）

VPN 3000偵錯

```
77 10/06/2000 14:28:55.600 SEV=4 AUTH/9 RPT=7
Authentication failed: Reason = Network error
handle = 17, server = 172.18.124.99, user = 37297304
```

VPN 3000未配置為SDI盒上的客戶端

SDI調試

```
10/06/2000 17:37:42U --/172.18.124.134 -->/
10/06/2000 13:36:42L Client Not Found   zekie.cisco.com
```

VPN 3000偵錯

```
113 10/06/2000 15:26:27.440 SEV=3 AUTH/5 RPT=8
Authentication rejected: Reason = Unspecified
handle = 21, server = 172.18.124.99, user = 37297304
```

從SDI伺服器中刪除了VPN 3000 Concentrator作為客戶端，然後重新新增它

SDI伺服器嘗試下發SECURID檔案以替換舊檔案，但VPN 3000已擁有此檔案。

SDI上的消息

```
10/06/2000 13:42:18L Node Verification Failed zekie.cisco.com
```

VPN 3000偵錯

```
21 10/06/2000 15:32:03.030 SEV=3 AUTH/5 RPT=9
Authentication rejected: Reason = Unspecified
handle = 22, server = 172.18.124.99, user = 37297304
```

要解決此問題，請轉到**管理>檔案管理>檔案> SECURID >刪除**，刪除VPN 3000集中器上的SECURID檔案。重新測試時，VPN 3000集中器從SDI伺服器接受新檔案。如果SDI上的**Edit Client > Sent Node Secret**覈取方塊呈灰色顯示，則SDI伺服器無法完成交換。一旦VPN 3000集中器具有SECURID檔案，**Sent Node Secret**覈取方塊將被選中/未呈灰色顯示。

相關資訊

- 使用IPSec SDI Authentication 5.0及更高版本配置Cisco VPN客戶端到VPN 3000集中器
- Cisco VPN 3000系列集中器支援頁面
- Cisco VPN 3000系列使用者端支援頁面
- IPSec支援頁面
- 技術支援 - Cisco Systems