有IPSec SDI 认证(服务器版本3.3)的Cisco VPN客户端到VPN 3000集中器

目录

简介

Cisco VPN 3000集中器可配置为通过安全动态国际(SDI)服务器对Cisco VPN客户端进行身份验证。VPN 3000集中器用作SDI客户端，与用户数据包协议(UDP)端口5500上的SDI服务器进行通信。以下文件显示如何确保SDI服务器、VPN 3000集中器和Cisco VPN客户端正常运行，以及如何结合使用上述组件。如果您的VPN 3000集中器尚未配置，请使用命令行界面(CLI)使用安装和配置VPN 3000集中器而不使用SDI的步骤进行初始安装和配置。如果早先配置了您的VPN 3000集中器，则遵从“修改现有配置”的步骤(没有SDI)。

先决条件

要求

本文档没有任何特定的前提条件。

使用的组件

此配置使用下面软件和硬件版本开发并且被测试。

- SDI服务器3.3（UNIX和NT）
- VPN 3000集中器(2.5.2)
- VPN客户端2.5.2.A

本文档中的信息都是基于特定实验室环境中的设备创建的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您是在真实网络上操作，请确保您在使用任何命令前已经了解其潜在影响。

规则

有关文档规则的详细信息，请参阅 Cisco 技术提示规则。

背景信息

本文档适用于Cisco VPN 3000客户端(2.5.x)或Cisco VPN客户端(3.x)。 使用3.0及以上版本，您现在可以为单个组配置单个SDI服务器，单个SDI服务器与全局定义的供全部组使用的SDI服务器正好相反。没有配置各自的SDI服务器的那些组将使用全局定义的SDI服务器。

SDI中有三种新的个人识别码(PIN)模式。VPN 3000集中器支持前两个选项，如下所示。

- 用户选择新的PIN。
- 服务器选择新的PIN并通知用户。
- 服务器选择新的PIN并通知用户；用户可以更改PIN。

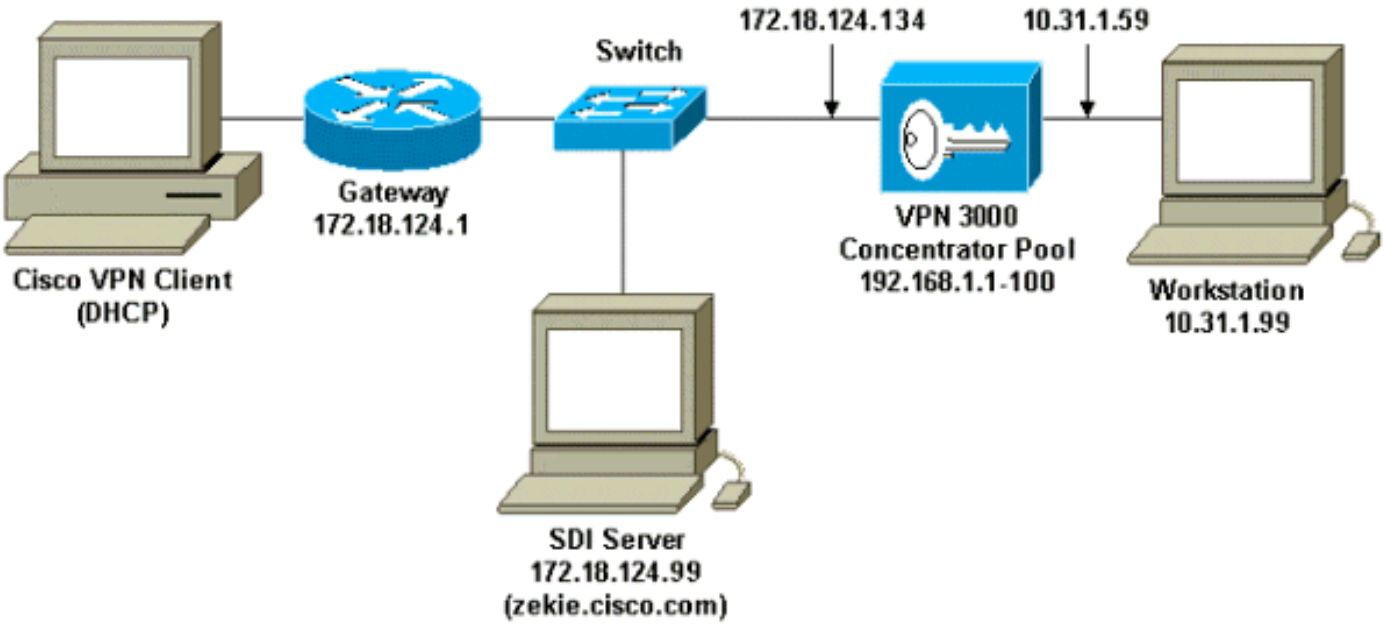
配置

本部分提供有关如何配置本文档所述功能的信息。

注：要查找有关本文档中使用的命令的其他信息，请使用命令查找工具(仅注册客户)。

网络图

本文档使用下图所示的网络设置。



配置

安装和配置不带SDI的VPN 3000集中器

我们配置VPN 3000集中器，以本地验证组中的用户；通过在添加SDI之前执行该操作，我们能够确定思科VPN客户端和VPN 3000集中器之间的IPSec正在运行。我们清除了控制台端口上的VPN 3000集中器，方法是选择Administration>System Reboot>Schedule reboot>Reboot with Factory/Default Configuration。

重新启动后，完成以下初始配置：

VPN 3000集中器集中器配置

```
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
```

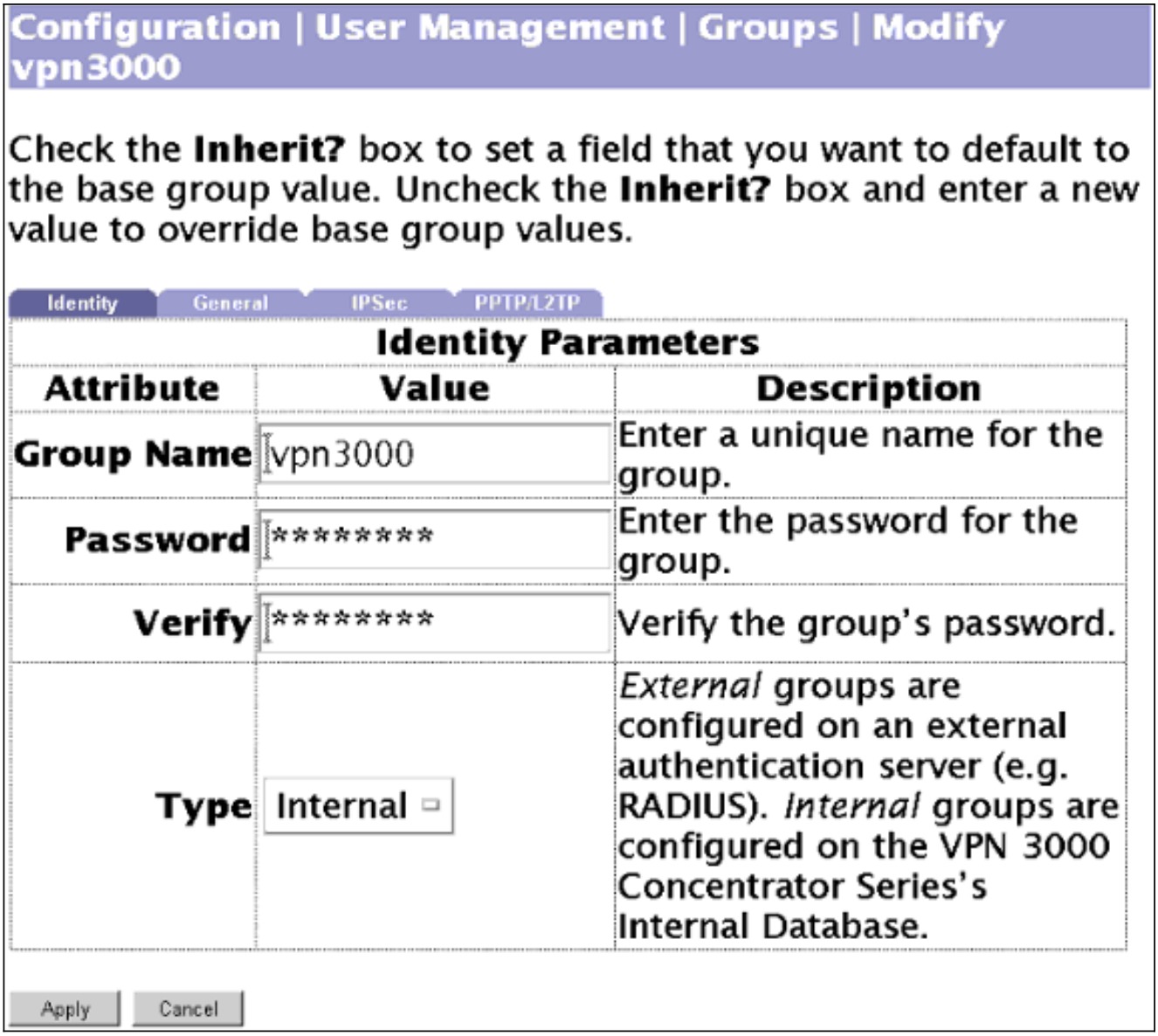
```
Quick -> [ 2 ]

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
```

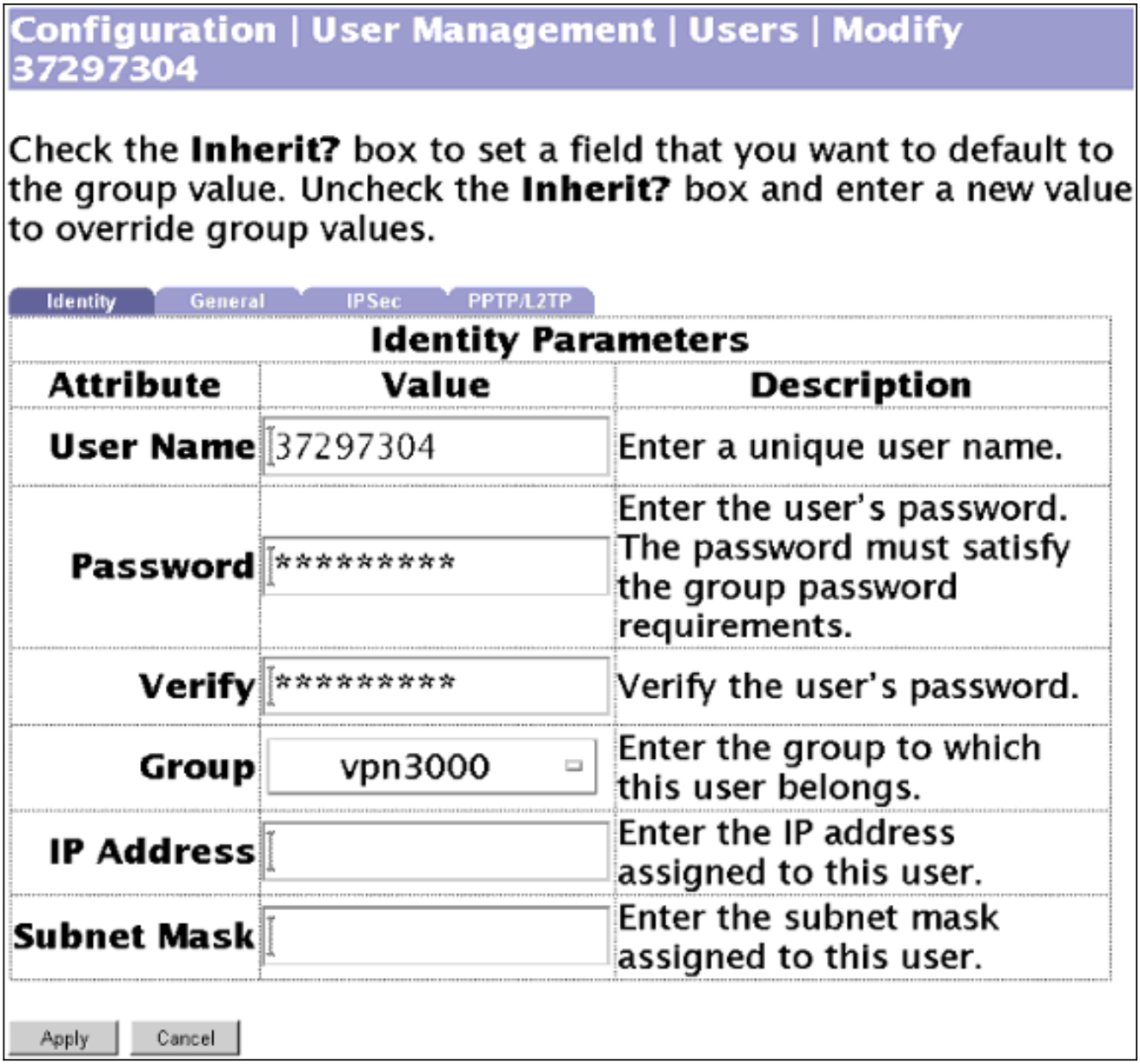
修改现有配置（不使用SDI）

如果早先配置了VPN 3000集中器，则使用以下屏幕检验组、用户和IPSec/IKE设置：

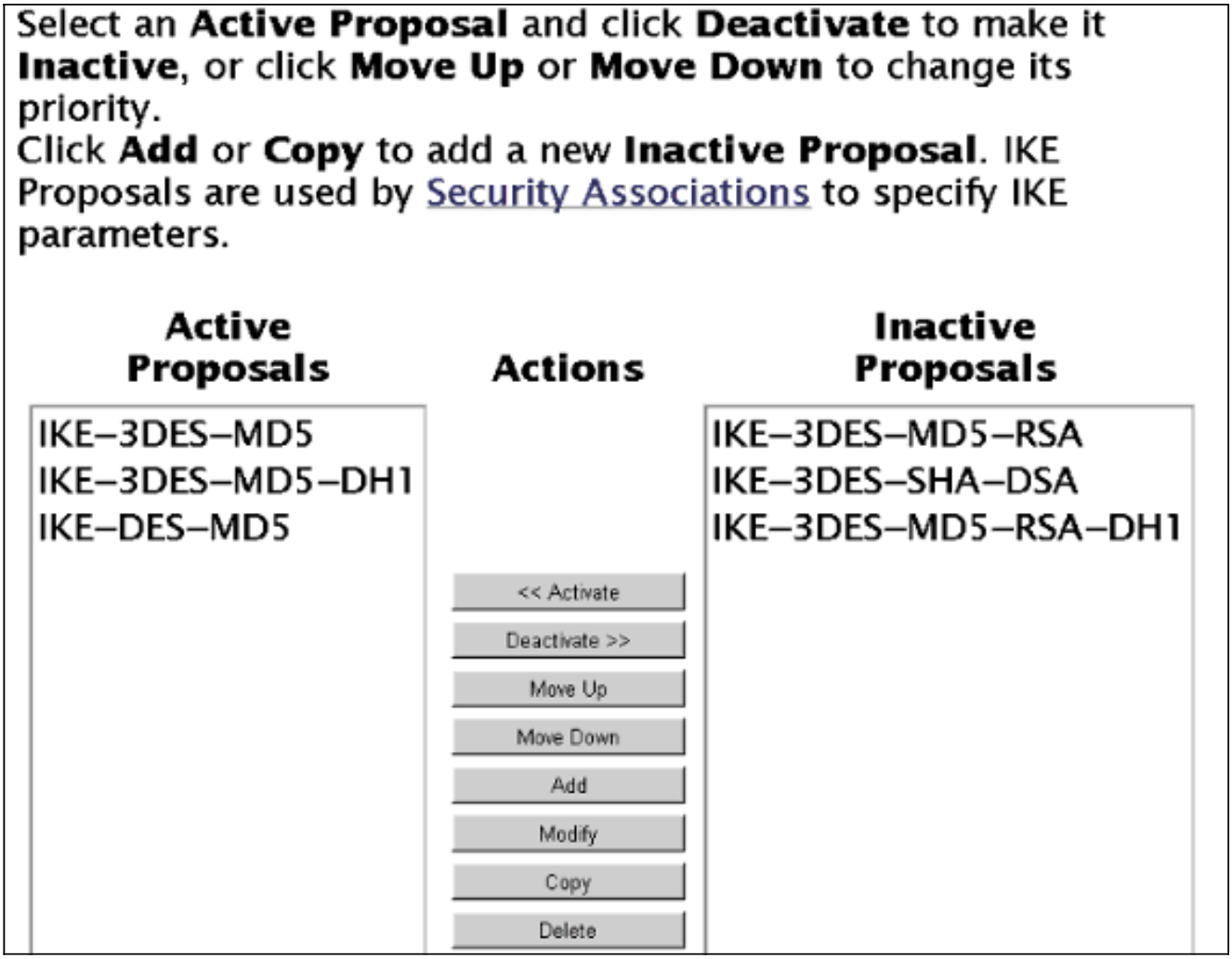
1. 使用此屏幕可添加具有本地身份验证的组
   ：



2. 使用此屏幕可将用户添加到具有本地身份验证的组
   :



3. 使用IPSec > IKE建议屏幕添加IKE设置(显示的设置是系统默认值
) :



测试不带SDI的Cisco VPN客户端和VPN 3000集中器

修改完VPN 3000集中器上的现有配置后，我们安装Cisco VPN客户端，并配置终止在172.18.124.134(集中器的公共接口)的新连接。 我们的组访问信息是“vpn3000” (组名称)，组密码则是该组的密码。当我们点击Connect时，username是“37297304”(用户的名称)，user password是用户的密码(存储在本地VPN 3000集中器中;尚未涉及SDI)。 请参阅IKE、IKEDBG、IKEDECODE、IPSEC、IPSECDBG、IPSECDECODE调试的“使用本地身份验证的良好IPSec调试”。

测试SDI服务器在没有VPN 3000集中器的情况下的运行

UNIX(Solaris)

1. 在SDI服务器上，使用Solaris admintool创建sditest帐户。/etc/passwd条目应如下所示：
   `sditest:x:76:10::/local/0/sditest:/local/0/opt/ace/prog/sdshell`
   注意：值和到用户主目录和“sdshell”的路径取决于系统。
2. 为sditest分配令牌。
3. 尝试以最短身份远程登录到UNIX主机。主机会提示您输入UNIX密码和PASSCODE。在进行身份验证后，它允许您以最新身份进入该主机。

Microsoft Windows NT

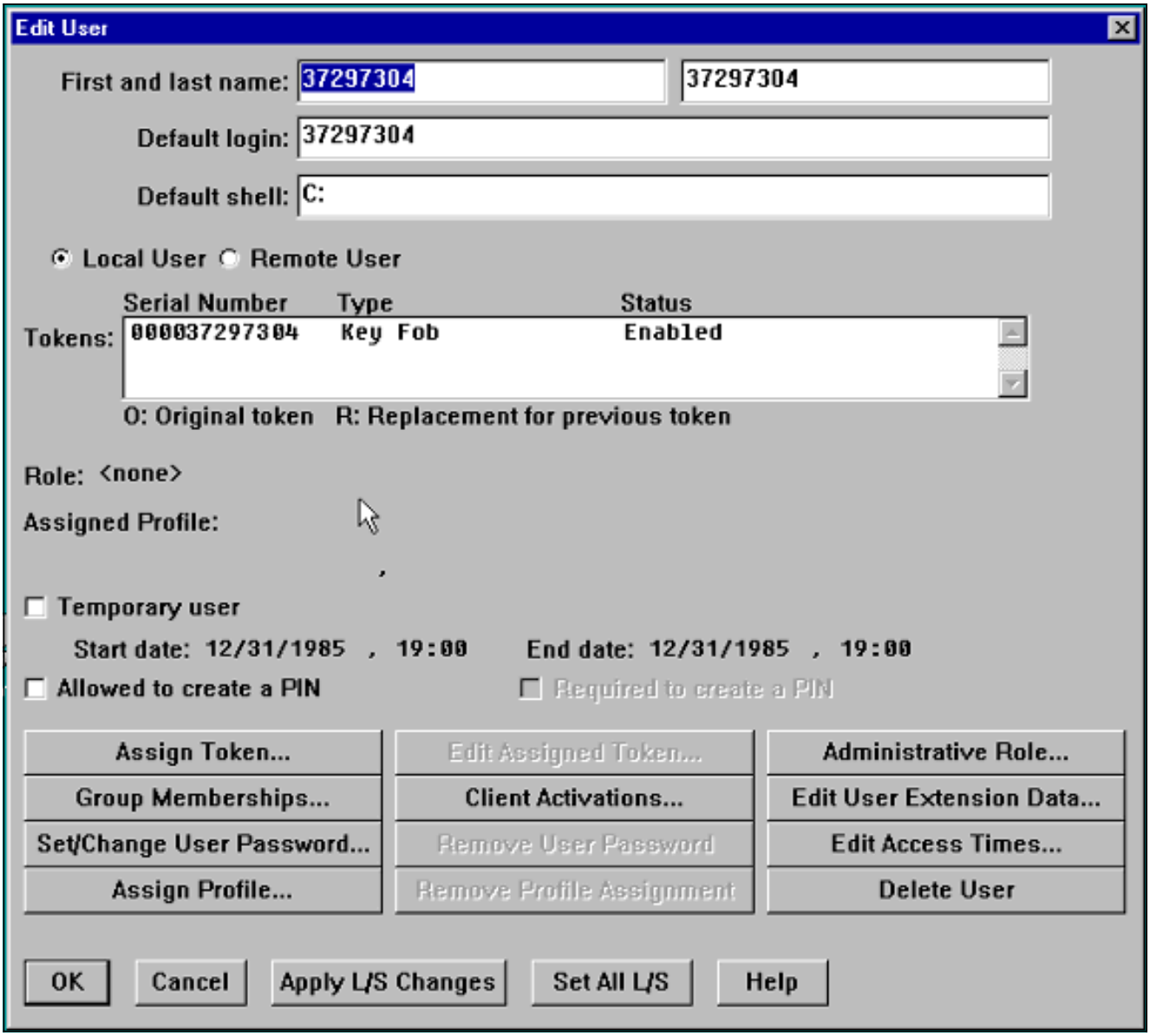
1. 安装SecurSight代理。
2. 选择**程序> SecurSight >测试身份验证**。

配置SDI/用户以与VPN 3000集中器通信

使用以下步骤配置SDI/User以与VPN 3000集中器通信：

1. 在SDI Server Edit Token屏幕上，确认token为“Enabled”，而不是“New PIN‘模式。
2. 单击**Resynchronize Token(重新同步令牌)并将PIN设置为Next Tokencode(下一个令牌代码)**。

3. 在Edit User屏幕上，将令牌分配给用户，并检验“允许创建PIN”是否未被检查。
4. 点击Client Activations（客户端激活）并验证是否包含VPN 3000集中器。



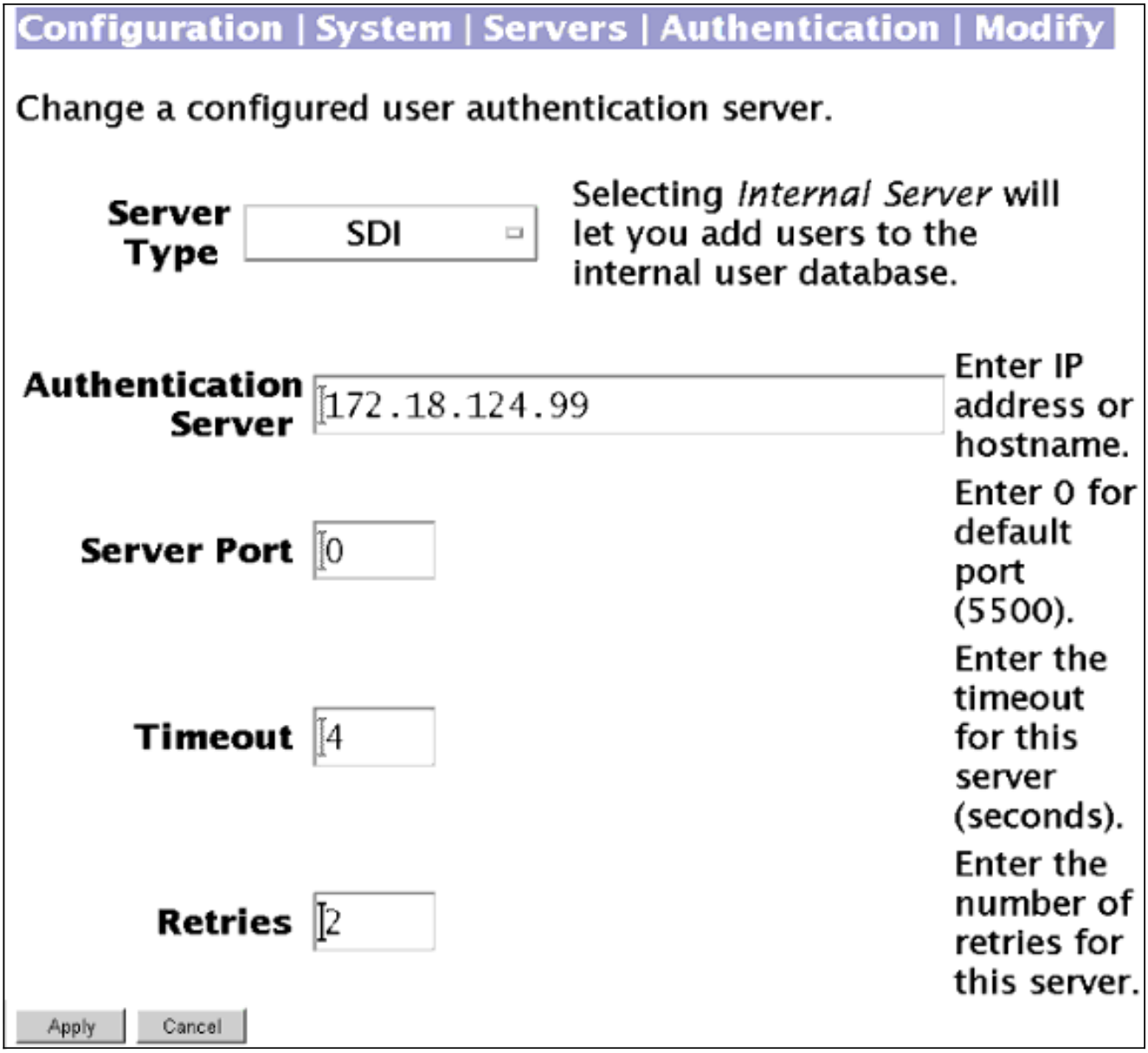
注意：VPN 3000集中器被视为SDI服务器的客户端；下面的屏幕是SDI服务器Add/Edit Client屏幕。由于这是新客户端，因此“Sent Node Secret”（发送节点密钥）框会灰显。SDI服务器没有机会发送“节点秘密”文件到集中器(此文件在集中器的Administration > File Management > Files部分显示为“SECURID”)。 从VPN 3000进行成功验证之后，“节点秘密”文件将显示在VPN 3000集中器上，“被发送的节点秘密”机箱将被检查。

5. 单击**User Activations**并验证是否包含该用户。

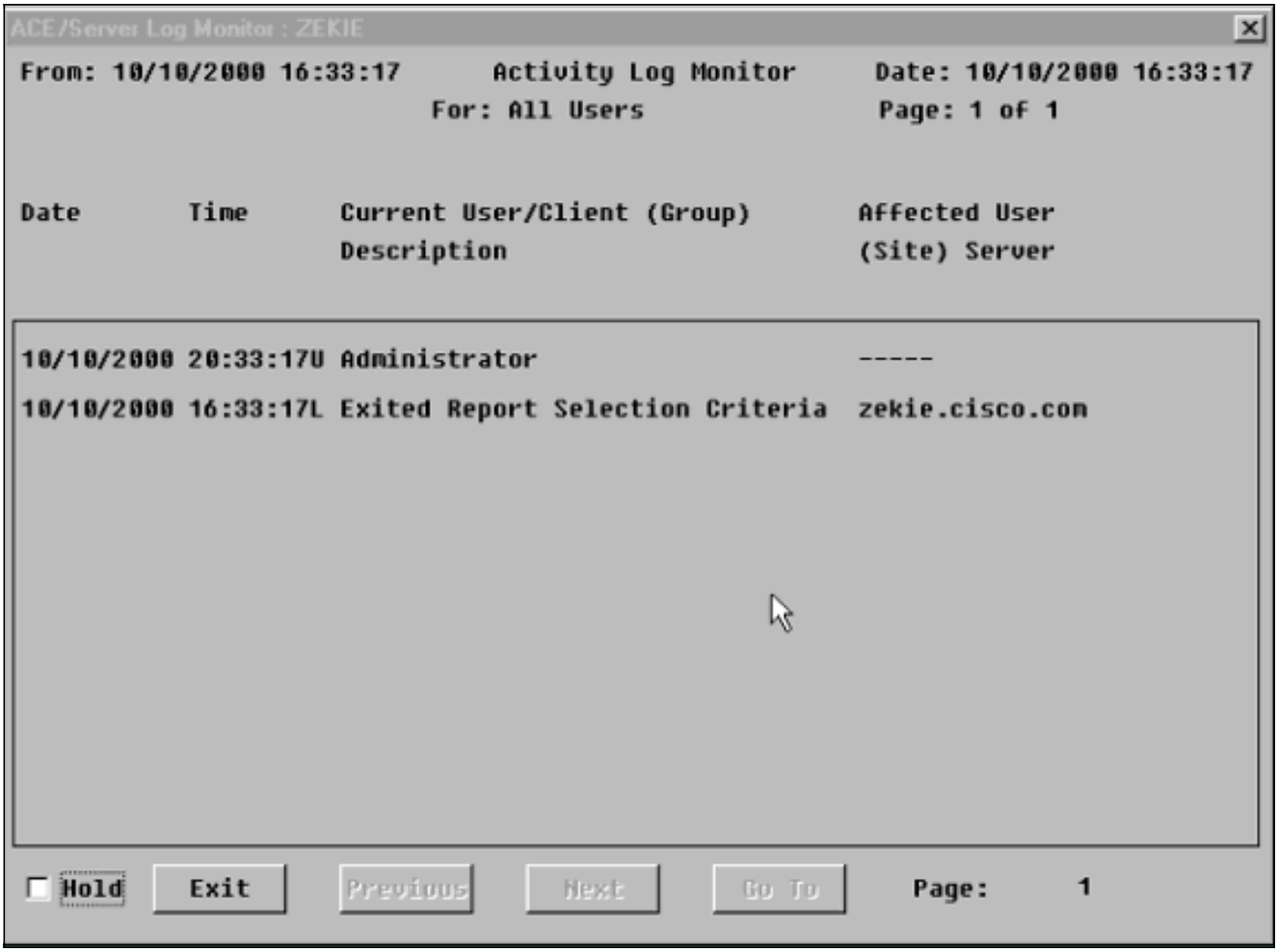
配置并测试VPN 3000集中器到SDI

使用以下步骤配置和测试VPN 3000集中器到SDI。

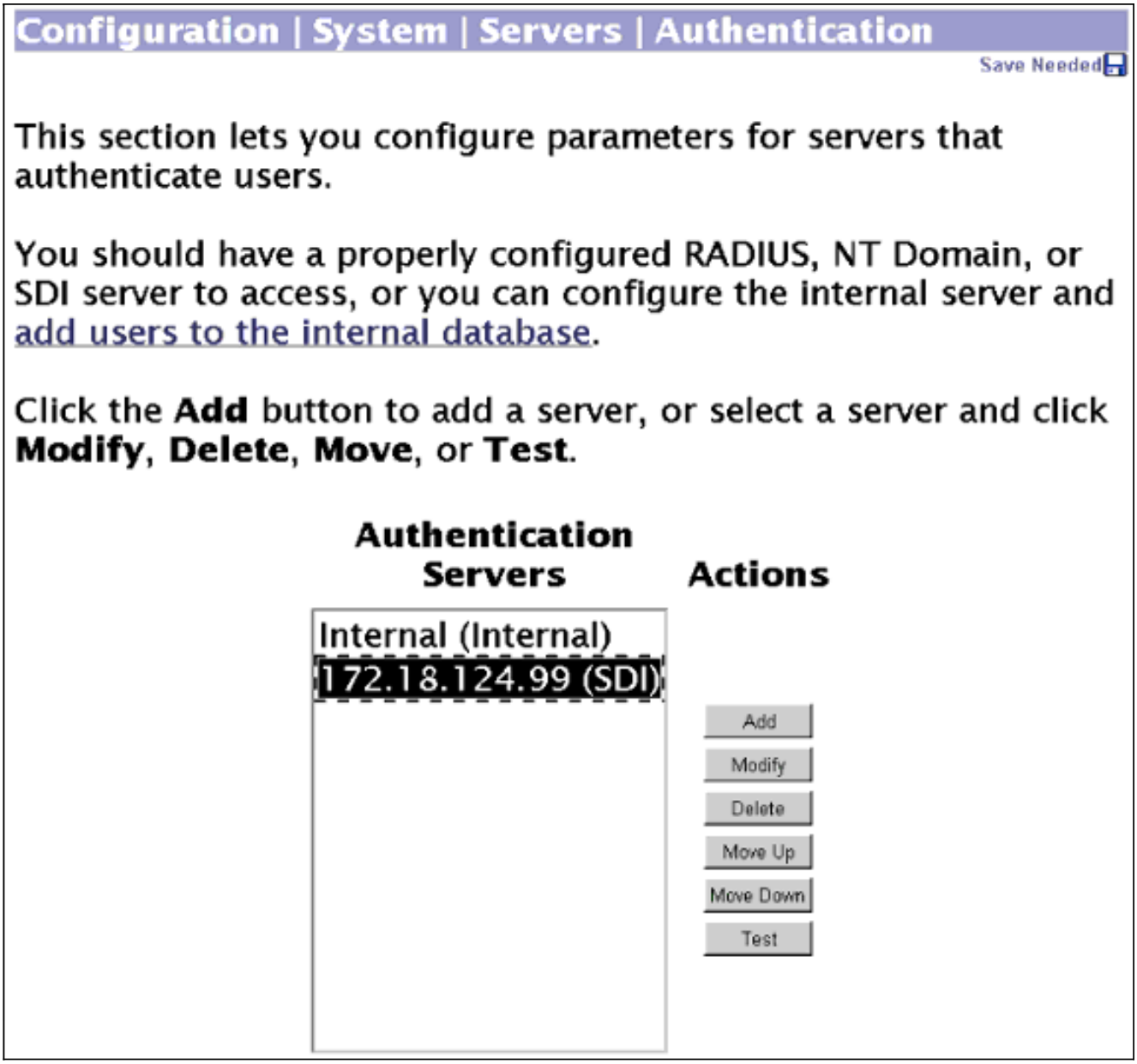
1. 使用以下屏幕配置VPN 3000集中器以向SDI进行身份验证
   ：



2. 从SDI选择Report>Log Monitor>Activity Monitor，并点击OK，遵守流入请求。



3. 在VPN 3000集中器上，单击**Test**以测试连接。



4. 如果身份验证正常，VPN 3000集中器将显示：**身份验证成功**

在上例中，我们定义了一个全局SDI服务器。我们也可以为每组选择性定义各自的SDI服务器，方法是选择Configuration >User Management>Groups，突出显示各自的组，并选择Modify Auth Server。

有关调试信息，请参阅本文档的以下部分：

- 启用 VPN 3000 集中器上的调试
- 成功的使用 SDI 时的调试
- 错误调试

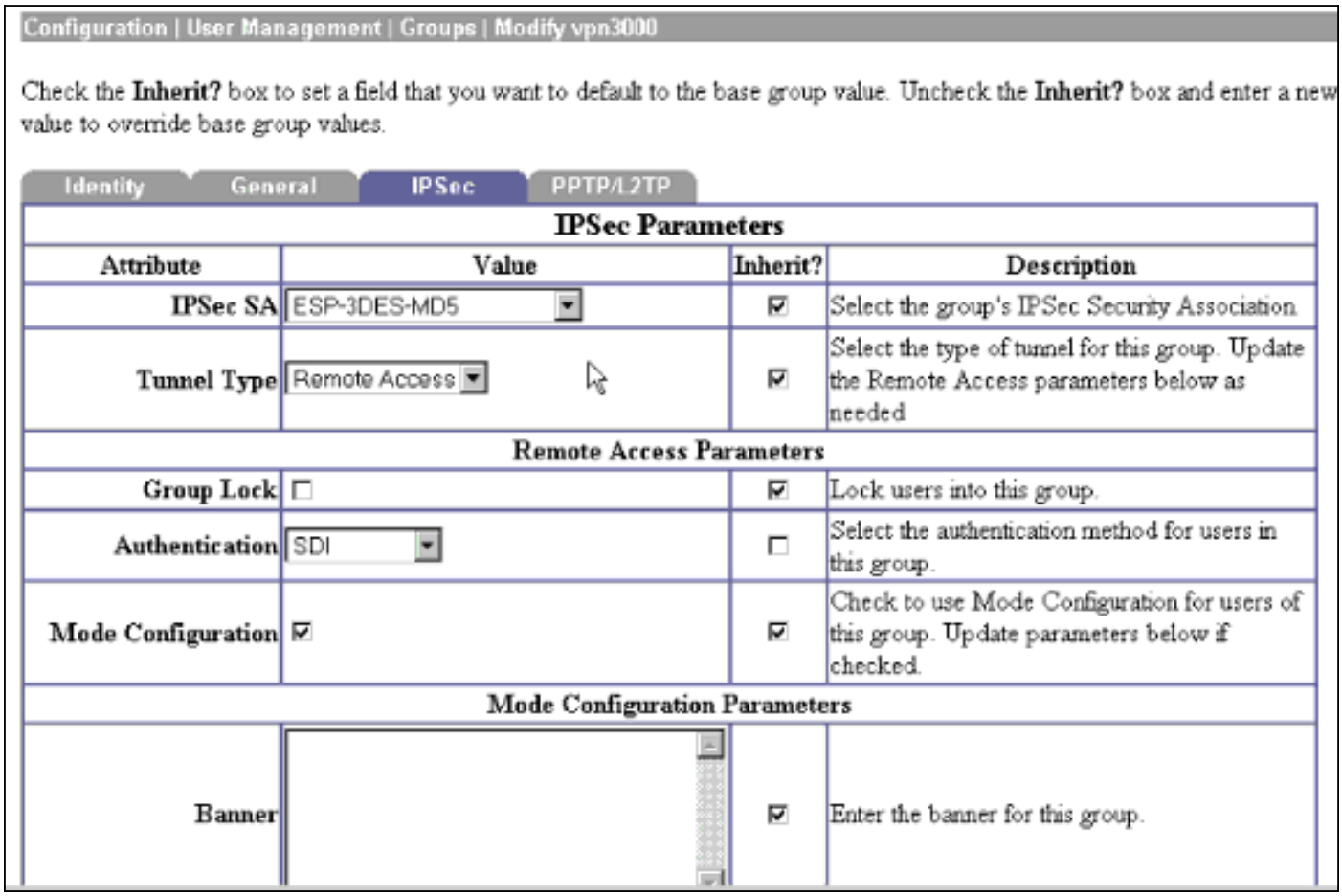
验证

本部分所提供的信息可用于确认您的配置是否正常工作。

测试使用 SDI 时的 Cisco VPN 客户端到VPN 3000 集中器

如果到此点的一切正常运行，便需要结合使用Cisco VPN客户端、VPN 3000集中器和SDI服务器。通过修改我们称之为“vpn3000”的工作组，来发送请求到SDI服务器，我们需要在VPN 3000集中器

上做某种更改。



故障排除

本部分提供的信息可用于对配置进行故障排除。

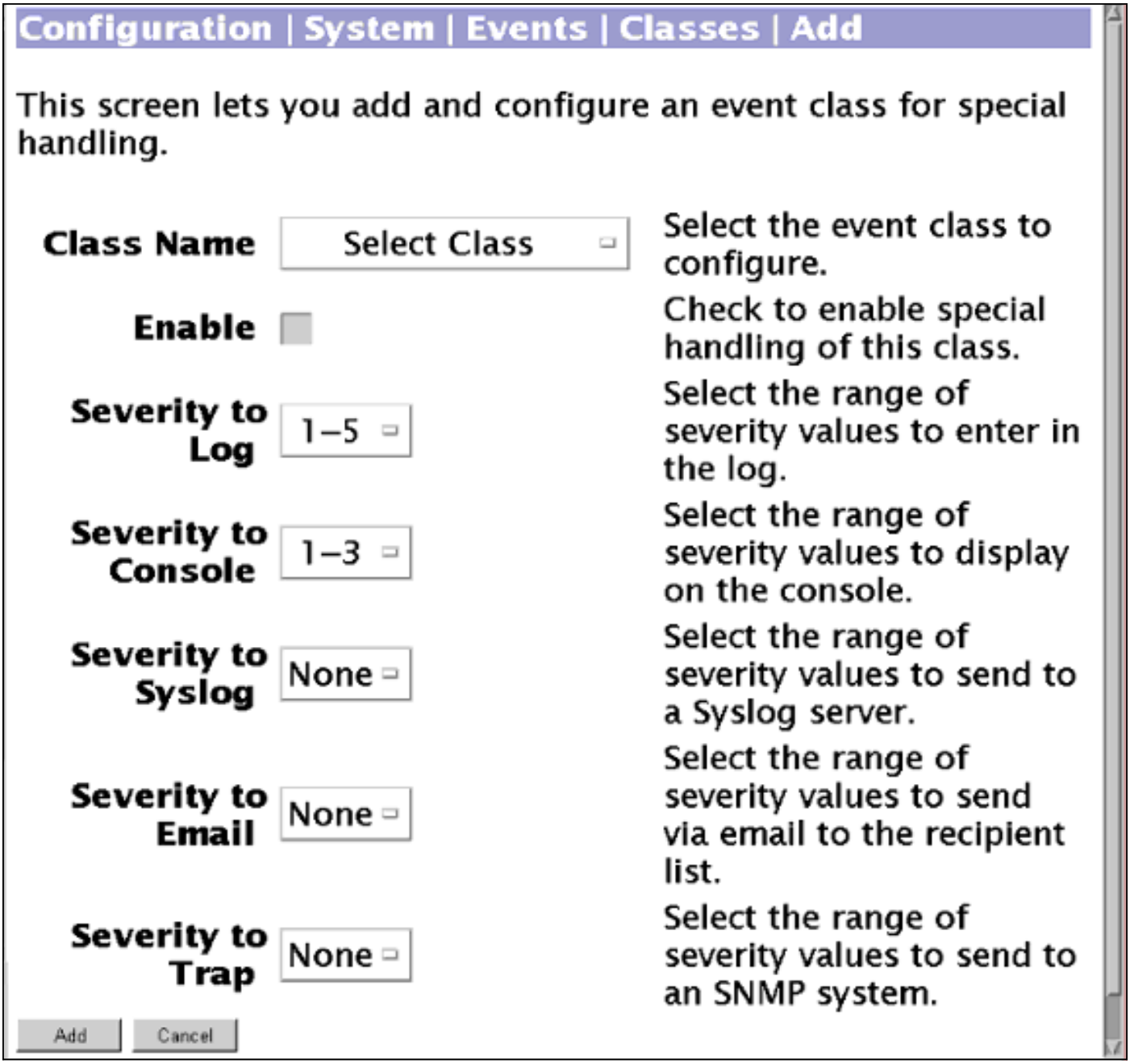
启用 VPN 3000 集中器上的调试

身份验证的类名：

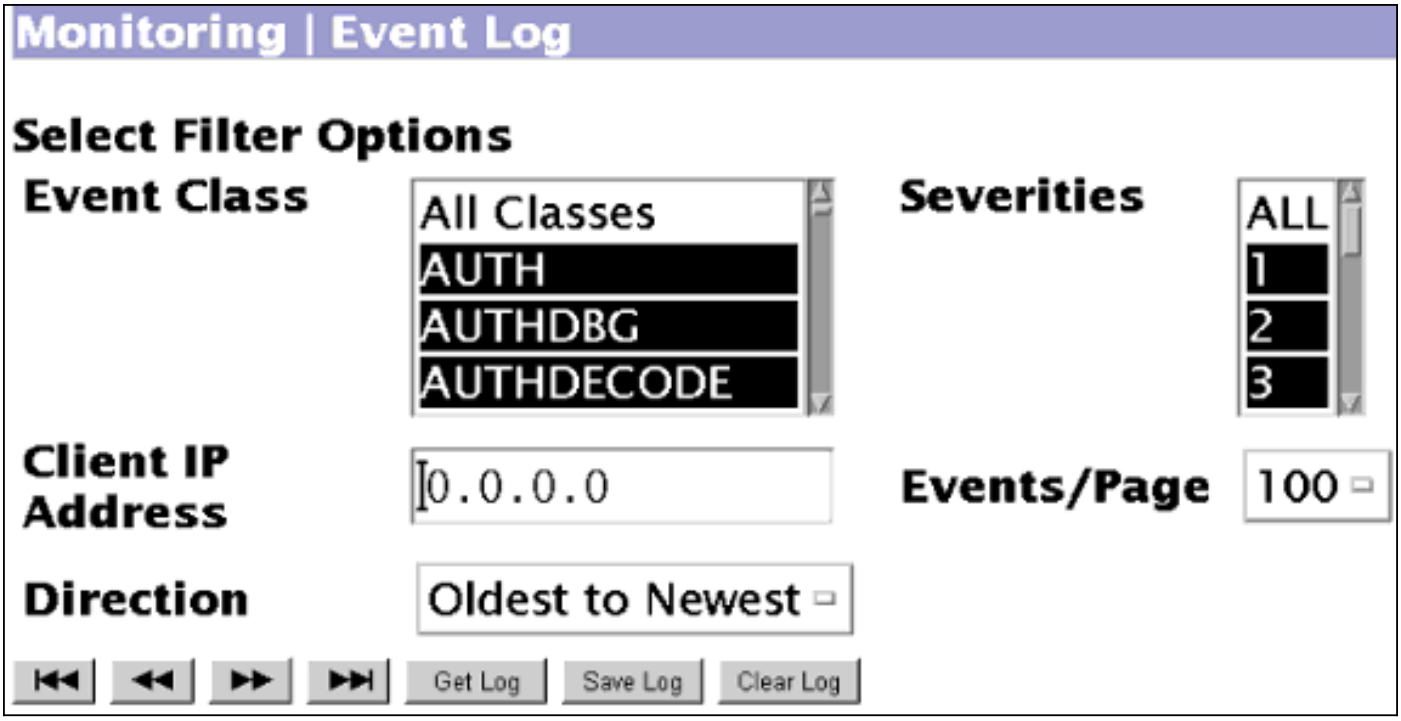
- AUTH
- AUTHDBG
- AUTHDECODE

IPSec的类名：

- IKE、IKEDBG、IKEDECODE
- IPSEC、IPSECDBG、IPSECDECODE
- 日志严重性= 1-9
- Console的严重性=1-3



单击Get Log查看调试操作的结果。



成功的使用本地认证的 IPSec 调试

```
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
```

成功的使用本地认证的 IPSec 调试

```
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
```

成功的使用 SDI 时的调试

SDI调试

如果成功（SDI上的首次身份验证）

```
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上进行第一次身份验证后）

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

VPN 3000集中器调试（测试中）

调试身份验证的“类名”：

- AUTH
- 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
```

错误调试

用户名错误或用户未在客户端上激活

SDI调试

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

VPN 3000 调试

```
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
```

用户名正确，密码错误

SDI调试

```
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 调试

```
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服务器无法访问或守护程序关闭

SDI调试

未显示任何内容（未收到请求）

VPN 3000 调试

```
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未配置为SDI盒上的客户端

SDI调试

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

VPN 3000 调试

```
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
```

从SDI服务器中删除作为客户端的VPN 3000集中器，然后重新添加它

SDI服务器设法发送SECURID文件，以替换旧的SECURID文件，但VPN 3000已经具有此文件。

SDI上的消息

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

VPN 3000 调试

```
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
```

要解决此问题，删除VPN 3000集中器上的SECURID文件，操作方法是选择Administration>File management>Files> SECURID>Delete。在重新测试时，VPN 3000集中器从SDI服务器接受新文件。如果 SDI上的Edit Client > Sent Node Secret复选框变成灰色，那么SDI服务器不能完成交换。一旦VPN 3000集中器具有SECURID文件，“已发送节**点密钥**”复选框将被选中/不灰显。

相关信息

- 通过 IPSec SDI Authentication 5.0 及以上版本配置 Cisco VPN Client到 VPN 3000 集中器的连接
- Cisco VPN 3000 系列集中器支持页
- Cisco VPN 3000 系列客户端支持页
- IPSec 支持页面
- 技术支持 - Cisco Systems