Configurazione di IPSec over TCP su un concentratore Cisco VPN 3000 con VPN Client release 3.5 e successive

Sommario

Introduzione

In questo documento viene descritto come configurare IP Security (IPSec) su TCP (Transmission Control Protocol). In questo modo un client VPN può funzionare in un ambiente in cui il protocollo ESP (Encapsulating Security Protocol, protocollo 50) o IKE (Internet Key Exchange, User Datagram Protocol) 500 non può funzionare o può funzionare solo modificando le regole del firewall esistenti. IPSec over TCP incapsula i protocolli IKE e IPSec all'interno di un pacchetto TCP e consente il tunneling sicuro tramite dispositivi NAT (Network Address Translation) e PAT (Port Address Translation) e firewall.

Nota: IPSec over TCP non funziona con firewall basati su proxy.

IPSec over TCP funziona sia con il client software VPN sia con il client hardware VPN 3002. Si tratta di un client solo per la funzione di concentrazione. Non funziona con le connessioni LAN-LAN.

VPN 3000 Concentrator può supportare contemporaneamente IPSec standard, IPSec su TCP e IPSec su UDP, in base al client con cui scambia i dati.

Il client hardware VPN 3002, che supporta un tunnel alla volta, può connettersi utilizzando IPSec standard, IPSec su TCP o IPSec su UDP.

Prerequisiti

Requisiti

Ènecessario configurare l'interfaccia pubblica del concentratore VPN 3000. IPSec over TCP è supportato solo sull'interfaccia pubblica su Ethernet 2. Per ulteriori informazioni, consultare le note di rilascio del client VPN Cisco.

Componenti usati

Le informazioni fornite in questo documento si basano sulle seguenti versioni software e hardware:

- VPN 3000 Concentrator versione 3.5 o successive
- VPN Client versione 3.5 o successive

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

Convenzioni

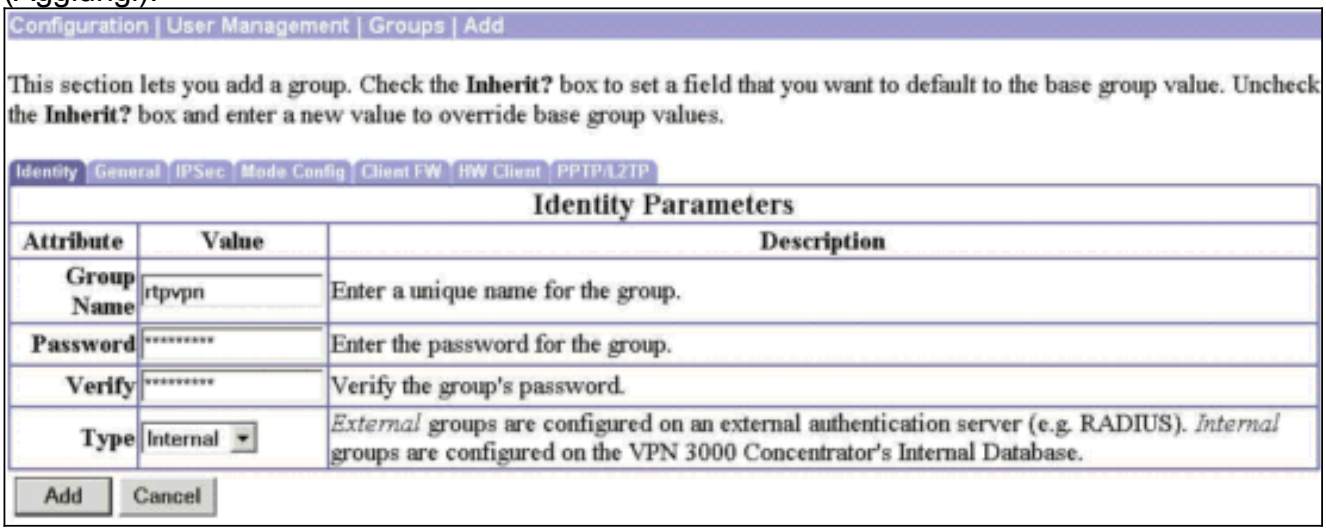
Per ulteriori informazioni sulle convenzioni usate, consultare il documento Cisco sulle convenzioni nei suggerimenti tecnici.

Configurazione di VPN 3000 Concentrator

Istruzioni dettagliate

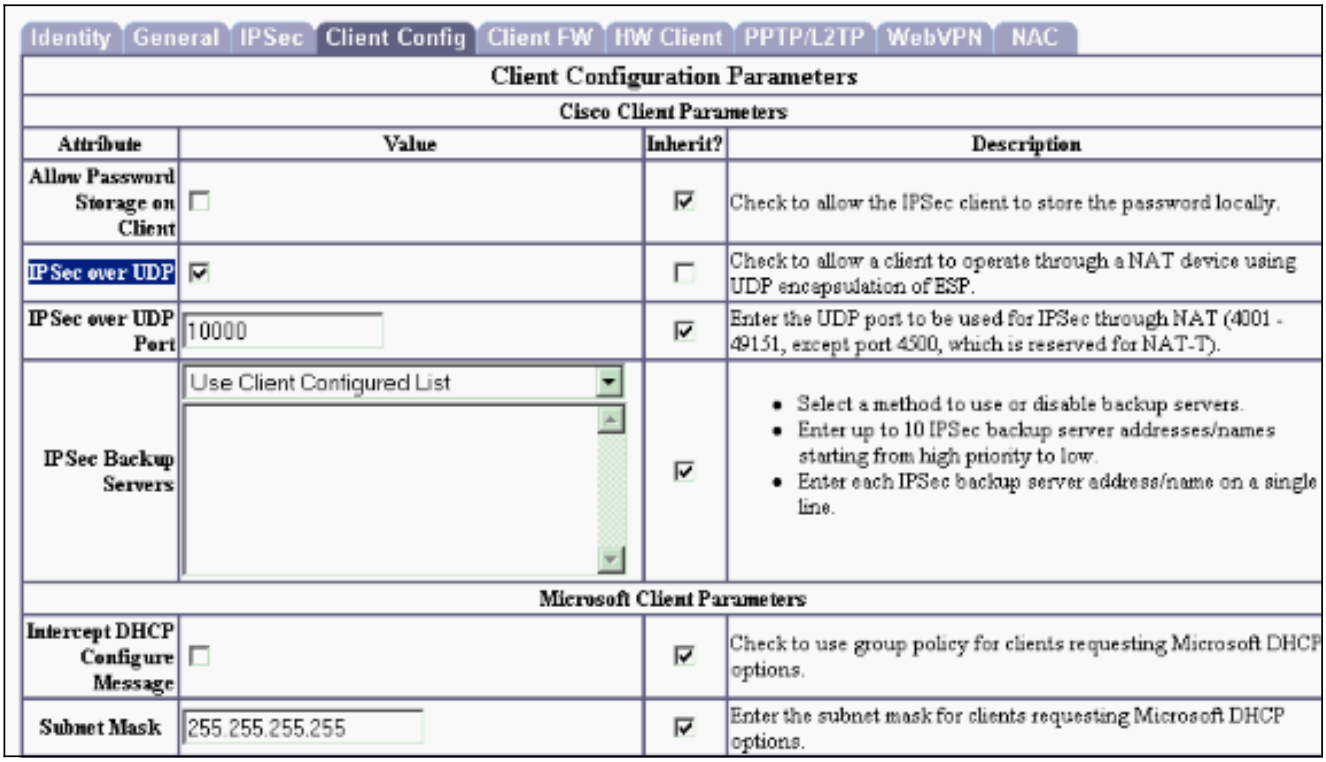
Completare questa procedura per configurare VPN 3000 Concentrator.

1. Selezionare **Configuration > User Management > Groups > Add Group** (Configurazione > **Gestione utenti > Gruppi > Aggiungi gruppo)** e creare un nome e una password per il concentratore VPN. Al termine, fare clic su **Add** (Aggiungi).

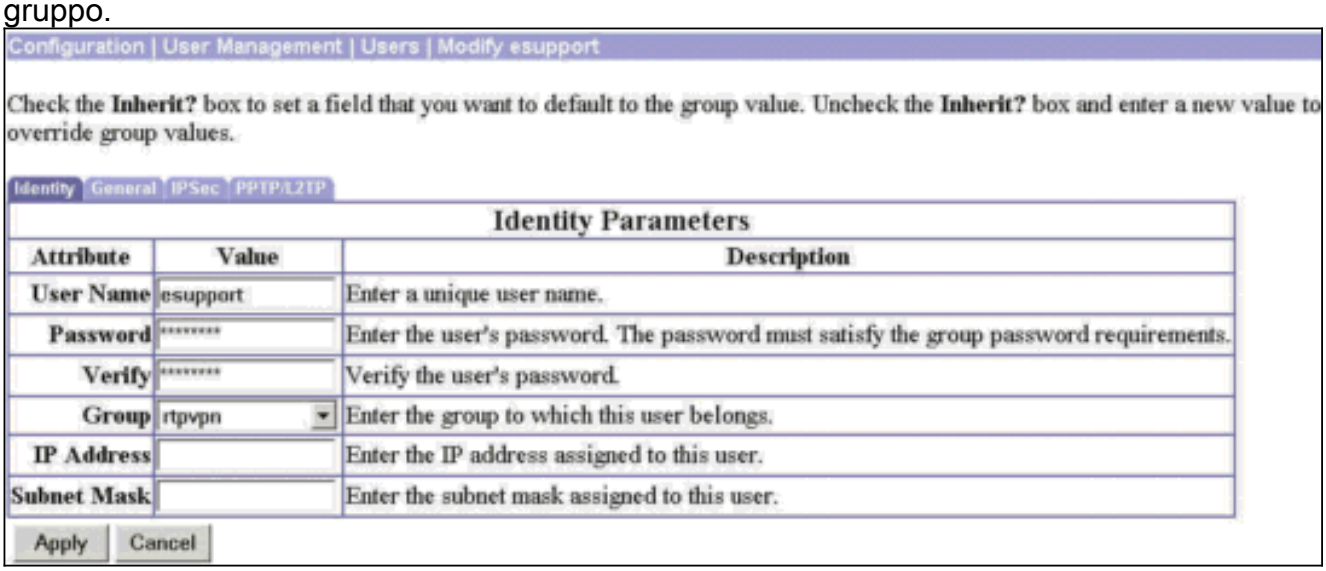


2. Se lo stesso gruppo è utilizzato da utenti di versioni client VPN precedenti alla 3.5 o se si utilizza IPSec su UDP su client VPN, selezionare **IPSec su UDP** nella scheda Configurazione

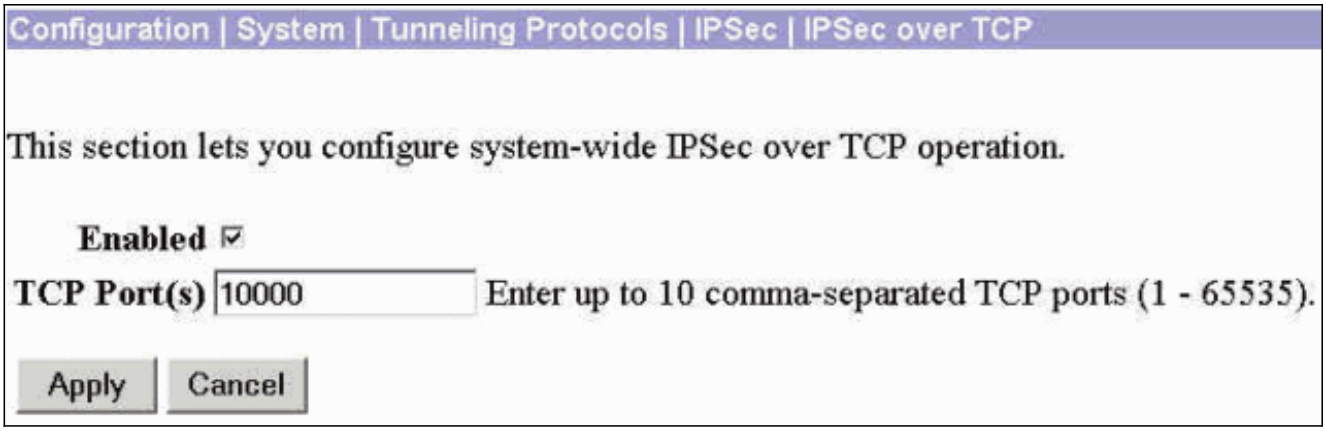
client.



3. Andare a **Configurazione > Gestione utente > Utenti > Modifica esupport**. Se si utilizza l'autenticazione interna, creare un utente per l'autenticazione nel gruppo. Assegnare quindi l'utente a tale
gruppo.



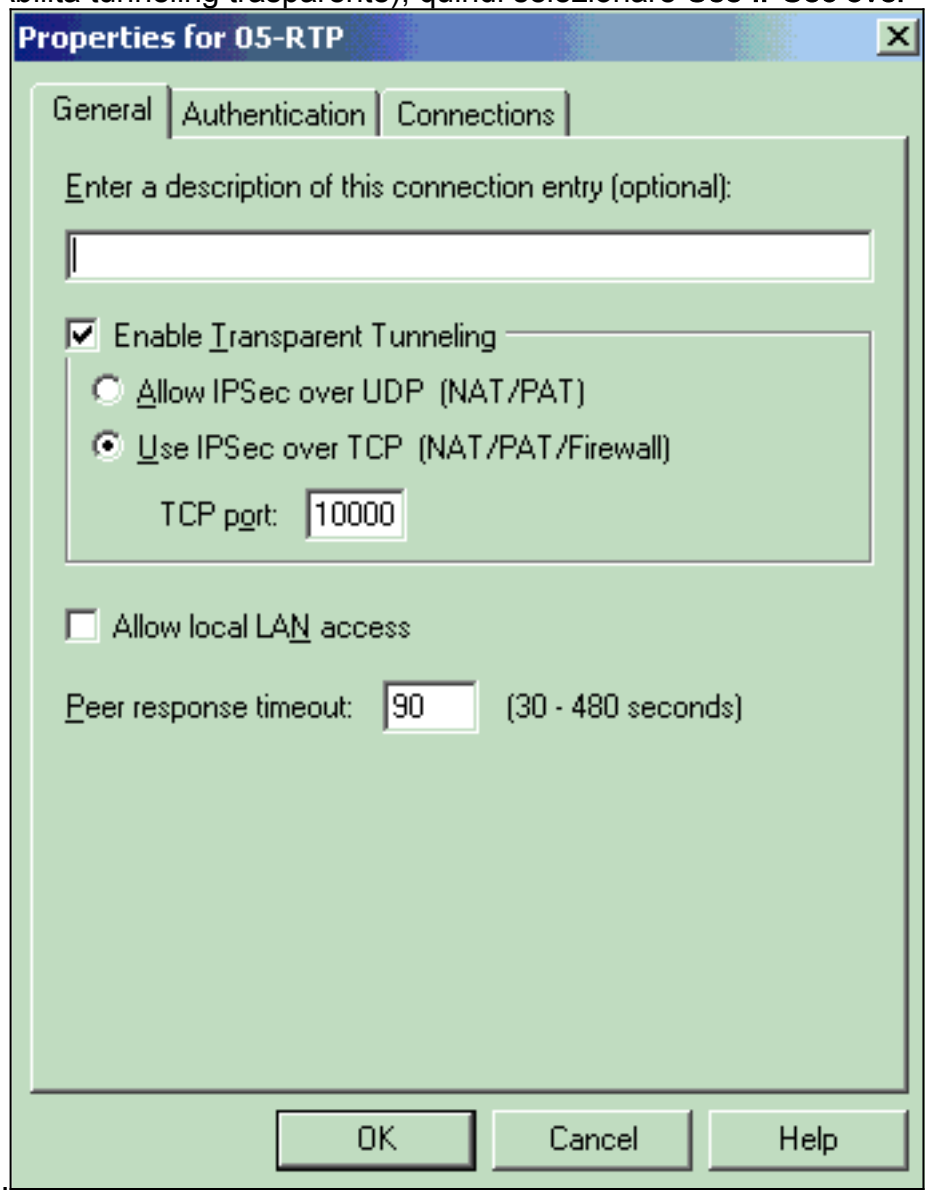
4. Selezionare **Configuration > Tunneling and Security > NAT Transparency** quindi selezionare l'opzione **IPsec over TCP**Immettere fino a 10 porte, separandole con una virgola. Non è necessario utilizzare spazi. La porta predefinita è 10.000. L'intervallo è compreso tra 1 e 65.635.Se si immette una porta conosciuta, ad esempio la porta 80 (HTTP) o la porta 443 (HTTPS), il sistema visualizza un avviso che avvisa che il protocollo associato a tale porta non funziona più sull'interfaccia pubblica. Di conseguenza, non è più possibile utilizzare un browser per gestire VPN 3000 Concentrator tramite l'interfaccia pubblica. Per risolvere il problema, riconfigurare la gestione HTTP/HTTPS su porte diverse.Ènecessario configurare le porte TCP sul client VPN e sul concentratore VPN. La configurazione client deve includere almeno una delle porte impostate per il concentratore
VPN.



Configurare il client VPN

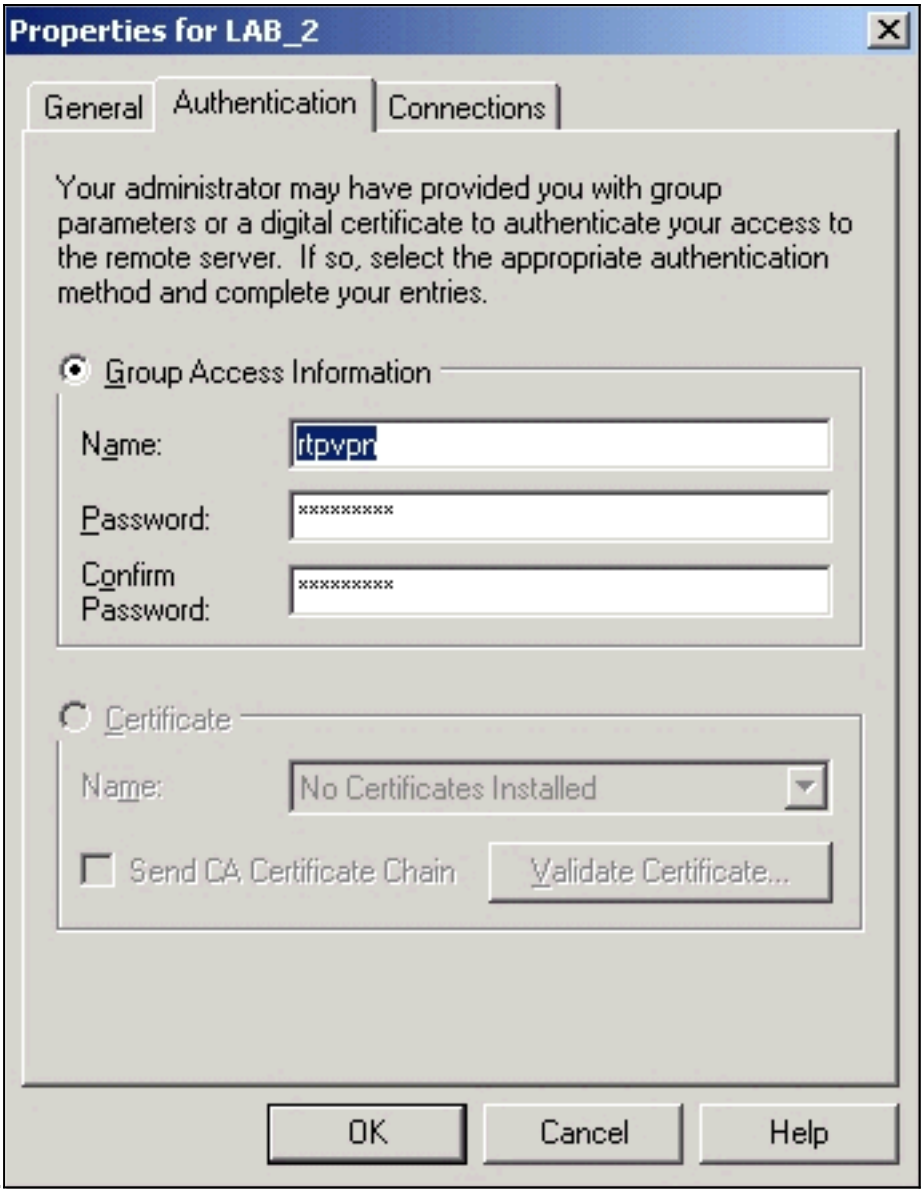
Completare questa procedura per configurare il client VPN.

1. Selezionare **Opzioni > Proprietà**. Nella scheda General (Generale), selezionare **Enable Transparent Tunneling** (Abilita tunneling trasparente), quindi selezionare **Use IPSec over TCP (NAT/PAT/Firewall)**.



2. Nella scheda Autenticazione, configurare un nome di gruppo e una password sul

client.



Verificare le connessioni sul concentratore VPN 3000

Nell'area **Monitoring > Sessions** del VPN 3000 Concentrator viene verificata la connessione degli utenti dello stesso gruppo per IPSec su TCP e IPSec su UDP.

Monitoring | Sessions — Wednesday, 05 December 2001 10:39:0

Reset Refresh

This screen shows statistics for sessions. To refresh the statistics, click **Refresh**. Select a **Group** to filter the sessions. For more information on a session, click on that session's name.

Group --All--

Session Summary

Active LAN-to-LAN Sessions	Active Remote Access Sessions	Active Management Sessions	Total Active Sessions	Peak Concurrent Sessions	Concurrent Sessions Limit	Total Cumulative Sessions
0	2	1	3	3	20	26

LAN-to-LAN Sessions [Remote Access Sessions | Management Sessions]

Connection Name	IP Address	Protocol	Encryption	Login Time	Duration	Bytes Tx	Bytes Rx
No LAN-to-LAN Sessions							

Remote Access Sessions [LAN-to-LAN Sessions | Management Sessions]

Username	Group	Public IP Address	Assigned IP Address	Protocol	Encryption	Login Time	Duration	Bytes Tx	Bytes Rx
esupport	rtpvpn	64.102.55.209	172.18.124.217	IPSec/UDP	3DES-168	Dec 05 10:38:06	0:00:58	22416	1536
esupporttcp	rtpvpn	172.18.124.241	172.18.124.218	IPSec/TCP	3DES-168	Dec 05 10:39:02	0:00:02	64	72

Risoluzione dei problemi

Le informazioni contenute in questa sezione permettono di risolvere i problemi relativi alla configurazione.

Comandi per la risoluzione dei problemi

Alcuni comandi **show sono supportati dallo** strumento Output Interpreter (solo utenti registrati); lo strumento permette di visualizzare un'analisi dell'output del comando **show.**

Nota: prima di usare i comandi di **debug**, consultare le informazioni importanti sui comandi di debug.

Abilitare i debug per AUTH, AUTHDBG, AUTHDECODE, IKE, IKEDBG, IKEDECODE, IPSEC, IPSECDBG, IPSECDECODE per i livelli da 1 a 13 in **Configurazione > Sistema > Eventi > Classi**.

```
1203 12/05/2001 11:40:54.220 SEV=9 IKEDBG/0 RPT=5347 172.18.124.241
Group [rtpvpn] User [esupporttcp]
processing SA payload

1204 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5035 172.18.124.241
SA Payload Decode :
DOI : IPSEC (1)
Situation : Identity Only (1)
Length : 696

1207 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5036 172.18.124.241
Proposal Decode:
Proposal # : 1
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40
```

```
1211 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5037 172.18.124.241
Transform # 1 Decode for Proposal # 1:
Transform # : 1
Transform ID : Triple-DES (3)
Length : 28

1213 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5038 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: MD5 (1)
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1216 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5039 172.18.124.241
Proposal Decode:
Proposal # : 1
Protocol ID : IPCOMP (4)
#of Transforms: 1
Spi : 5D 82
Length : 34

1220 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5040 172.18.124.241
Transform # 1 Decode for Proposal # 1:
Transform # : 1
Transform ID : LZS (3)
Length : 24

1222 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5041 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1224 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5042 172.18.124.241
Proposal Decode:
Proposal # : 2
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40

1228 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5043 172.18.124.241
Transform # 1 Decode for Proposal # 2:
Transform # : 1
Transform ID : Triple-DES (3)
Length : 28

1230 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5044 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: SHA (2)
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1233 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5045 172.18.124.241
Proposal Decode:
Proposal # : 2
Protocol ID : IPCOMP (4)
#of Transforms: 1
Spi : D8 44
Length : 34

1237 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5046 172.18.124.241
Transform # 1 Decode for Proposal # 2:
Transform # : 1
Transform ID : LZS (3)
```

```
Length : 24

1239 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5047 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1241 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5048 172.18.124.241
Proposal Decode:
Proposal # : 3
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40

1245 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5049 172.18.124.241
Transform # 1 Decode for Proposal # 3:
Transform # : 1
Transform ID : Triple-DES (3)
Length : 28

1247 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5050 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: MD5 (1)
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1250 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5051 172.18.124.241
Proposal Decode:
Proposal # : 4
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40

1254 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5052 172.18.124.241
Transform # 1 Decode for Proposal # 4:
Transform # : 1
Transform ID : Triple-DES (3)
Length : 28

1256 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5053 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: SHA (2)
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1259 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5054 172.18.124.241
Proposal Decode:
Proposal # : 5
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40

1263 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5055 172.18.124.241
Transform # 1 Decode for Proposal # 5:
Transform # : 1
Transform ID : DES-CBC (2)
Length : 28

1265 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5056 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: MD5 (1)
```

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Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1268 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5057 172.18.124.241
Proposal Decode:
Proposal # : 5
Protocol ID : IPCOMP (4)
#of Transforms: 1
Spi : 80 07
Length : 34

1272 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5058 172.18.124.241
Transform # 1 Decode for Proposal # 5:
Transform # : 1
Transform ID : LZS (3)
Length : 24

1274 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5059 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1276 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5060 172.18.124.241
Proposal Decode:
Proposal # : 6
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40

1280 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5061 172.18.124.241
Transform # 1 Decode for Proposal # 6:
Transform # : 1
Transform ID : DES-CBC (2)
Length : 28

1282 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5062 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: SHA (2)
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1285 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5063 172.18.124.241
Proposal Decode:
Proposal # : 6
Protocol ID : IPCOMP (4)
#of Transforms: 1
Spi : 1A D4
Length : 34

1289 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5064 172.18.124.241
Transform # 1 Decode for Proposal # 6:
Transform # : 1
Transform ID : LZS (3)
Length : 24

1291 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5065 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1293 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5066 172.18.124.241
Proposal Decode:
Proposal # : 7
```

```
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40

1297 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5067 172.18.124.241
Transform # 1 Decode for Proposal # 7:
Transform # : 1
Transform ID : DES-CBC (2)
Length : 28

1299 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5068 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: MD5 (1)
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1302 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5069 172.18.124.241
Proposal Decode:
Proposal # : 8
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40

1306 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5070 172.18.124.241
Transform # 1 Decode for Proposal # 8:
Transform # : 1
Transform ID : DES-CBC (2)
Length : 28

1308 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5071 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: SHA (2)
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1311 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5072 172.18.124.241
Proposal Decode:
Proposal # : 9
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40

1315 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5073 172.18.124.241
Transform # 1 Decode for Proposal # 9:
Transform # : 1
Transform ID : NULL (11)
Length : 28

1317 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5074 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: MD5 (1)
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1320 12/05/2001 11:40:54.220 SEV=8 IKEDECODE/0 RPT=5075 172.18.124.241
Proposal Decode:
Proposal # : 9
Protocol ID : IPCOMP (4)
#of Transforms: 1
Spi : 7B 9B
Length : 34
```

```
1324 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5076 172.18.124.241
Transform # 1 Decode for Proposal # 9:
Transform # : 1
Transform ID : LZS (3)
Length : 24

1326 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5077 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1328 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5078 172.18.124.241
Proposal Decode:
Proposal # : 10
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40

1332 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5079 172.18.124.241
Transform # 1 Decode for Proposal # 10:
Transform # : 1
Transform ID : NULL (11)
Length : 28

1334 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5080 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: SHA (2)
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1337 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5081 172.18.124.241
Proposal Decode:
Proposal # : 10
Protocol ID : IPCOMP (4)
#of Transforms: 1
Spi : 79 45
Length : 34

1341 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5082 172.18.124.241
Transform # 1 Decode for Proposal # 10:
Transform # : 1
Transform ID : LZS (3)
Length : 24

1343 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5083 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1345 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5084 172.18.124.241
Proposal Decode:
Proposal # : 11
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40

1349 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5085 172.18.124.241
Transform # 1 Decode for Proposal # 11:
Transform # : 1
Transform ID : NULL (11)
Length : 28
```

```
1351 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5086 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: MD5 (1)
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1354 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5087 172.18.124.241
Proposal Decode:
Proposal # : 12
Protocol ID : ESP (3)
#of Transforms: 1
Spi : 98 79 D2 38
Length : 40

1358 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5088 172.18.124.241
Transform # 1 Decode for Proposal # 12:
Transform # : 1
Transform ID : NULL (11)
Length : 28

1360 12/05/2001 11:40:54.230 SEV=8 IKEDECODE/0 RPT=5089 172.18.124.241
Phase 2 SA Attribute Decode for Transform # 1:
HMAC Algorithm: SHA (2)
Encapsulation : Tunnel (1)
Life Time : 2147483 seconds

1363 12/05/2001 11:40:54.230 SEV=9 IKEDBG/1 RPT=666 172.18.124.241
Group [rtpvpn] User [esupporttcp]
processing nonce payload

1364 12/05/2001 11:40:54.230 SEV=9 IKEDBG/1 RPT=667 172.18.124.241
Group [rtpvpn] User [esupporttcp]
Processing ID

1365 12/05/2001 11:40:54.230 SEV=12 IKEDECODE/11 RPT=115
ID_IPV4_ADDR ID received
172.18.124.217

1366 12/05/2001 11:40:54.230 SEV=5 IKE/25 RPT=58 172.18.124.241
Group [rtpvpn] User [esupporttcp]
Received remote Proxy Host data in ID Payload:
Address 172.18.124.217, Protocol 0, Port 0

1369 12/05/2001 11:40:54.230 SEV=9 IKEDBG/1 RPT=668 172.18.124.241
Group [rtpvpn] User [esupporttcp]
Processing ID

1370 12/05/2001 11:40:54.230 SEV=12 IKEDECODE/11 RPT=116
ID_IPV4_ADDR_SUBNET ID received
0.0.0.0
0.0.0.0

1371 12/05/2001 11:40:54.230 SEV=5 IKE/34 RPT=36 172.18.124.241
Group [rtpvpn] User [esupporttcp]
Received local IP Proxy Subnet data in ID Payload:
Address 0.0.0.0, Mask 0.0.0.0, Protocol 0, Port 0

1374 12/05/2001 11:40:54.230 SEV=5 IKE/66 RPT=58 172.18.124.241
Group [rtpvpn] User [esupporttcp]
IKE Remote Peer configured for SA: ESP-3DES-MD5

1376 12/05/2001 11:40:54.230 SEV=9 IKEDBG/0 RPT=5348 172.18.124.241
Group [rtpvpn] User [esupporttcp]
```

```
processing IPSEC SA

1377 12/05/2001 11:40:54.230 SEV=12 IKEDECODE/0 RPT=5090
IKE Decode of received SA attributes follows:
0000: 80050001 80040001 80010001 00020004 ................
0010: 0020C49B . ..

1380 12/05/2001 11:40:54.230 SEV=12 IKEDECODE/0 RPT=5091
IKE Decode of received SA attributes follows:
0000: 80050002 80040001 80010001 00020004 ................
0010: 0020C49B . ..

1383 12/05/2001 11:40:54.230 SEV=8 IKEDBG/0 RPT=5349
Proposal # 2, Transform # 1, Type ESP, Id Triple-DES
Parsing received transform:
Phase 2 failure:
Mismatched attr types for class HMAC Algorithm:
Rcv'd: SHA
Cfg'd: MD5

1387 12/05/2001 11:40:54.230 SEV=12 IKEDECODE/0 RPT=5092
IKE Decode of received SA attributes follows:
0000: 80050001 80040001 80010001 00020004 ................
0010: 0020C49B . ..

1390 12/05/2001 11:40:54.230 SEV=7 IKEDBG/27 RPT=58 172.18.124.241
Group [rtpvpn] User [esupporttcp]
IPSec SA Proposal # 3, Transform # 1 acceptable

1392 12/05/2001 11:40:54.230 SEV=7 IKEDBG/0 RPT=5350 172.18.124.241
Group [rtpvpn] User [esupporttcp]
IKE: requesting SPI!

1393 12/05/2001 11:40:54.230 SEV=9 IPSECDBG/6 RPT=282
IPSEC key message parse - msgtype 6, len 200, vers 1, pid 00000000,
seq 58, 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 707832, lifetime2 0, dsId 300

1397 12/05/2001 11:40:54.230 SEV=9 IPSECDBG/1 RPT=1062
Processing KEY_GETSPI msg!

1398 12/05/2001 11:40:54.230 SEV=7 IPSECDBG/13 RPT=58
Reserved SPI 1889854019

1399 12/05/2001 11:40:54.230 SEV=8 IKEDBG/6 RPT=58
IKE got SPI from key engine: SPI = 0x70a4e243

1400 12/05/2001 11:40:54.230 SEV=9 IKEDBG/0 RPT=5351 172.18.124.241
Group [rtpvpn] User [esupporttcp]
oakley constucting quick mode

1401 12/05/2001 11:40:54.230 SEV=9 IKEDBG/0 RPT=5352 172.18.124.241
Group [rtpvpn] User [esupporttcp]
constructing blank hash

1402 12/05/2001 11:40:54.230 SEV=9 IKEDBG/0 RPT=5353 172.18.124.241
Group [rtpvpn] User [esupporttcp]
constructing ISA_SA for ipsec

1403 12/05/2001 11:40:54.230 SEV=9 IKEDBG/1 RPT=669 172.18.124.241
Group [rtpvpn] User [esupporttcp]
constructing ipsec nonce payload
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1404 12/05/2001 11:40:54.230 SEV=9 IKEDBG/1 RPT=670 172.18.124.241
Group [rtpvpn] User [esupporttcp]
constructing proxy ID

1405 12/05/2001 11:40:54.230 SEV=7 IKEDBG/0 RPT=5354 172.18.124.241
Group [rtpvpn] User [esupporttcp]
Transmitting Proxy Id:
Remote host: 172.18.124.217 Protocol 0 Port 0
Local subnet: 0.0.0.0 mask 0.0.0.0 Protocol 0 Port 0

1409 12/05/2001 11:40:54.230 SEV=9 IKEDBG/0 RPT=5355 172.18.124.241
Group [rtpvpn] User [esupporttcp]
constructing qm hash

1410 12/05/2001 11:40:54.240 SEV=12 IKEDECODE/5 RPT=58
IKE Responder sending 2nd QM pkt: msg id = f2a6ce35

1411 12/05/2001 11:40:54.240 SEV=8 IKEDBG/0 RPT=5356 172.18.124.241
SENDING Message (msgid=f2a6ce35) with payloads :
HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) + NONE (0)
... total length : 152

1414 12/05/2001 11:40:54.250 SEV=8 IKEDECODE/0 RPT=5093 172.18.124.241
ISAKMP HEADER : ( Version 1.0 )
Initiator Cookie(8): E7 AC CD 06 A6 74 A7 1A
Responder Cookie(8): 98 3B 37 97 CA 06 BC 18
Next Payload : HASH (8)
Exchange Type : Oakley Quick Mode
Flags : 1 (ENCRYPT )
Message ID : f2a6ce35
Length : 52

1421 12/05/2001 11:40:54.250 SEV=8 IKEDBG/0 RPT=5357 172.18.124.241
RECEIVED Message (msgid=f2a6ce35) with payloads :
HDR + HASH (8) + NONE (0) ... total length : 48

1423 12/05/2001 11:40:54.250 SEV=9 IKEDBG/0 RPT=5358 172.18.124.241
Group [rtpvpn] User [esupporttcp]
processing hash

1424 12/05/2001 11:40:54.250 SEV=9 IKEDBG/0 RPT=5359 172.18.124.241
Group [rtpvpn] User [esupporttcp]
loading all IPSEC SAs

1425 12/05/2001 11:40:54.250 SEV=9 IKEDBG/1 RPT=671 172.18.124.241
Group [rtpvpn] User [esupporttcp]
Generating Quick Mode Key!

1426 12/05/2001 11:40:54.260 SEV=9 IKEDBG/1 RPT=672 172.18.124.241
Group [rtpvpn] User [esupporttcp]
Generating Quick Mode Key!

1427 12/05/2001 11:40:54.260 SEV=7 IKEDBG/0 RPT=5360 172.18.124.241
Group [rtpvpn] User [esupporttcp]
Loading subnet:
Dst: 0.0.0.0 mask: 0.0.0.0
Src: 172.18.124.217

1429 12/05/2001 11:40:54.260 SEV=4 IKE/49 RPT=58 172.18.124.241
Group [rtpvpn] User [esupporttcp]
Security negotiation complete for User (esupporttcp)
Responder, Inbound SPI = 0x70a4e243, Outbound SPI = 0x9879d238

1432 12/05/2001 11:40:54.260 SEV=9 IPSECDBG/6 RPT=283
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IPSEC key message parse - msgtype 1, len 620, vers 1, pid 00000000,
seq 0, err 0, type 2, mode 1, state 64, label 0, pad 0,
spi 9879d238, encrKeyLen 24, hashKeyLen 16, ivlen 8, alg 2,
hmacAlg 3, lifetype 0, lifetime1 707832, lifetime2 0, dsId 0

1436 12/05/2001 11:40:54.260 SEV=9 IPSECDBG/1 RPT=1063
Processing KEY_ADD msg!

1437 12/05/2001 11:40:54.260 SEV=9 IPSECDBG/1 RPT=1064
key_msghdr2secassoc(): Enter

1438 12/05/2001 11:40:54.260 SEV=7 IPSECDBG/1 RPT=1065
No USER filter configured

1439 12/05/2001 11:40:54.260 SEV=9 IPSECDBG/1 RPT=1066
KeyProcessAdd: Enter

1440 12/05/2001 11:40:54.260 SEV=8 IPSECDBG/1 RPT=1067
KeyProcessAdd: Adding outbound SA

1441 12/05/2001 11:40:54.260 SEV=8 IPSECDBG/1 RPT=1068
KeyProcessAdd: src 0.0.0.0 mask 255.255.255.255, dst
172.18.124.217 mask 0.0.0.0

1442 12/05/2001 11:40:54.260 SEV=8 IPSECDBG/1 RPT=1069
KeyProcessAdd: FilterIpsecAddIkeSa success

1443 12/05/2001 11:40:54.260 SEV=9 IPSECDBG/6 RPT=284
IPSEC key message parse - msgtype 3, len 334, vers 1, pid 00000000,
seq 0, err 0, type 2, mode 1, state 32, label 0, pad 0,
spi 70a4e243, encrKeyLen 24, hashKeyLen 16, ivlen 8, alg 2,
hmacAlg 3, lifetype 0, lifetime1 707832, lifetime2 0, dsId 0

1447 12/05/2001 11:40:54.260 SEV=9 IPSECDBG/1 RPT=1070
Processing KEY_UPDATE msg!

1448 12/05/2001 11:40:54.260 SEV=9 IPSECDBG/1 RPT=1071
Update inbound SA addresses

1449 12/05/2001 11:40:54.260 SEV=9 IPSECDBG/1 RPT=1072
key_msghdr2secassoc(): Enter

1450 12/05/2001 11:40:54.260 SEV=7 IPSECDBG/1 RPT=1073
No USER filter configured

1451 12/05/2001 11:40:54.260 SEV=9 IPSECDBG/1 RPT=1074
KeyProcessUpdate: Enter

1452 12/05/2001 11:40:54.260 SEV=8 IPSECDBG/1 RPT=1075
KeyProcessUpdate: success

1453 12/05/2001 11:40:54.260 SEV=8 IKEDBG/7 RPT=58
IKE got a KEY_ADD msg for SA: SPI = 0x9879d238

1454 12/05/2001 11:40:54.260 SEV=8 IKEDBG/0 RPT=5361
pitcher: rcv KEY_UPDATE, spi 0x70a4e243

1455 12/05/2001 11:40:54.260 SEV=4 IKE/120 RPT=58
172.18.124.241
Group [rtpvpn] User [esupporttcp]
PHASE 2 COMPLETED (msgid=f2a6ce35)

1456 12/05/2001 11:40:55.120 SEV=7 IPSECDBG/1 RPT=1076
IPSec Inbound SA has received data!
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1457 12/05/2001 11:40:55.120 SEV=8 IKEDBG/0 RPT=5362
pitcher: recv KEY_SA_ACTIVE spi 0x709e5f39

1458 12/05/2001 11:40:55.120 SEV=8 IKEDBG/0 RPT=5363
KEY_SA_ACTIVE no old rekey centry found with new spi
0x709e5f39, mess_id 0x0
```

Informazioni correlate

- Cisco VPN serie 3000 Concentrator Support Page
- Pagina di supporto per Cisco VPN Client
- Pagina di supporto per IPSec
- Documentazione e supporto tecnico – Cisco Systems