Configuring the Cisco Router and VPN Clients Using PPTP and MPPE

Document ID: 29781

Contents

Introduction

This document describes how to configure a Cisco IOS® router that terminates Windows 2000 Point−to−Point Tunnelling Protocol (PPTP) Clients, and Microsoft Point−to−Point Encryption Protocol (MPPE).

Refer to Configuring Cisco Secure ACS for Windows Router PPTP Authentication for more information on PPTP authentication with Cisco Secure Access Control Server (ACS).

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on the software and hardware versions:

- Cisco 2621 Router that runs Cisco IOS Software Release 12.2
- Microsoft Windows 2000

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Network Diagram

This document uses this network setup:
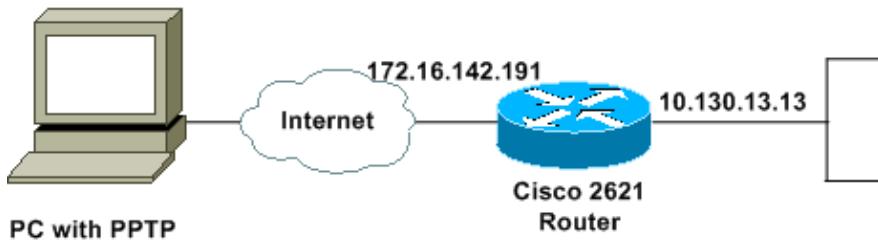
Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

PPTP Router Configuration

These IOS commands are applicable to all platforms that support PPTP.

```
2621#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.

!--- Enable virtual private dial-up networking.


2621(config)#vpdn enable

!--- Enters VPDN group configuration mode for the specified VPDN group.


2621(config)#vpdn-group 1

!--- Enters VPDN accept-dialin configuration mode
!--- and enables the router to accept dial-in requests.

2621(config-vpdn)#accept-dialin

!--- Specifies which PPTP protocol is used.

2621(config-vpdn-acc-in)#protocol pptp

!--- Specifies the virtual template that is used
!--- in order to clone the virtual access interface.

2621(config-vpdn-acc-in)#virtual-template 1
2621(config-vpdn-acc-in)#exit

2621(config)#ip local pool test 192.168.1.1 192.168.1.250

!--- Create virtual-template interface used for cloning
!--- virtual-access interfaces with the use of address pool test
!--- with Challenge Authentication Protocol (CHAP) authentication, PAP, and MS-CHAP.

2621(config)#interface virtual-template 1

2621(config-if)#encapsulation ppp
2621(config-if)#peer default ip address pool test
2621(config-if)#ip unnumbered FastEthernet0/0
2621(config-if)#no keepalive
2621(config-if)#ppp encrypt mppe auto
2621(config-if)#ppp authentication pap chap ms-chap
```

Cisco 2621 Router

```
2621#show run
Building configuration...

Current configuration : 1566 bytes
!
version 12.2
service timestamps debug datetime msec localtime
service timestamps log datetime msec localtime
no service password-encryption
!
hostname 2621
!
boot system flash
logging queue-limit 100
enable secret 5 $1$dGFC$VA28yOWzxlCKyj1dq8SkE/
!
username cisco password 0 cisco123
username client password 0 testclient
ip subnet-zero
ip cef
!
!
no ip domain lookup
ip domain name cisco.com
!
vpdn enable

!--- Enable VDPN.

!
vpdn-group 1

!--- Default PPTP VPDN group.

 accept-dialin
  protocol pptp
  virtual-template 1
!
!
!
!
!
!
!
!
!
!
voice call carrier capacity active
!
!
!
!
!
!
!
no voice hpi capture buffer
no voice hpi capture destination
!
!
mta receive maximum-recipients 0
!
!
controller T1 0/0
 framing sf
 linecode ami
!
```

```
controller T1 0/1
 framing sf
 linecode ami
!
!
!
interface Loopback0
 ip address 10.100.100.1 255.255.255.0
 ip nat inside
!
interface FastEthernet0/0
 ip address 172.16.142.191 255.255.255.0
 no ip route-cache
 no ip mroute-cache
 duplex auto
 speed auto
!
interface FastEthernet0/1
 ip address 10.130.13.13 255.255.0.0
 duplex auto
 speed auto
!

!--- Create virtual-template interface used for cloning
!--- virtual-access interfaces with the use of address pool test
!--- with CHAP authentication, PAP, and MS-CHAP.

interface Virtual-Template1
 ip unnumbered FastEthernet0/0
 peer default ip address pool test
 no keepalive
 ppp encrypt mppe auto
 ppp authentication pap chap ms-chap
!

!--- Create IP pool named test and specify IP range.

ip local pool test 192.168.1.1 192.168.1.250
no ip http server
no ip http secure-server
ip classless
ip route 0.0.0.0 0.0.0.0 172.16.142.1
!
ip pim bidir-enable
!
!
!
call rsvp-sync
!
!
mgcp profile default
!
dial-peer cor custom
!
!
!
!
!
line con 0
 exec-timeout 0 0
line aux 0
line vty 0 4
 password cisco
 login
!
!
```

```
end

2621#
```

Router Configuration with MPPE and MS−CHAP

```
!--- Enter configuration commands, one per line.
!--- End with CNTL/Z.

2621(config)#interface Virtual-Template1
2621(config-if)#ppp authentication ms-chap
2621(config-if)#ppp encrypt mppe ?
  128   128 Bit Encryption only
  40    40 Bit Encryption only
  auto  Will offer 40 and 128 bit if available

2621(config-if)#ppp encrypt mppe auto
2621(config-if)#ppp encrypt mppe auto required
```

# Windows 2000 VPN (PPTP) Settings and Configuration

Complete these steps:

1. Choose **Start > Settings > Network and Dial−up Connections > Make New Connection**.
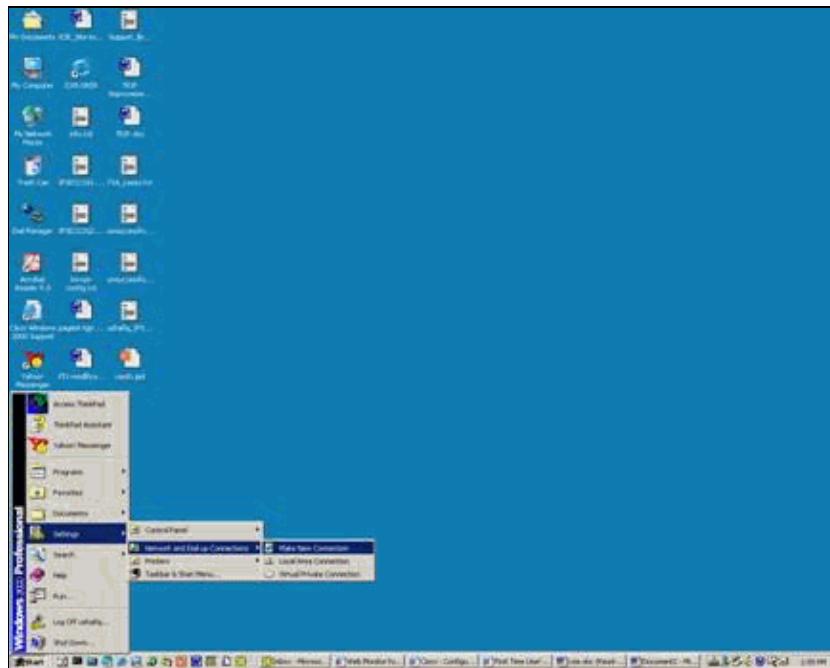

2. After the Network Connection Wizard window appears, choose **Network Connection Type** and **Connect to a private network through the Internet**.
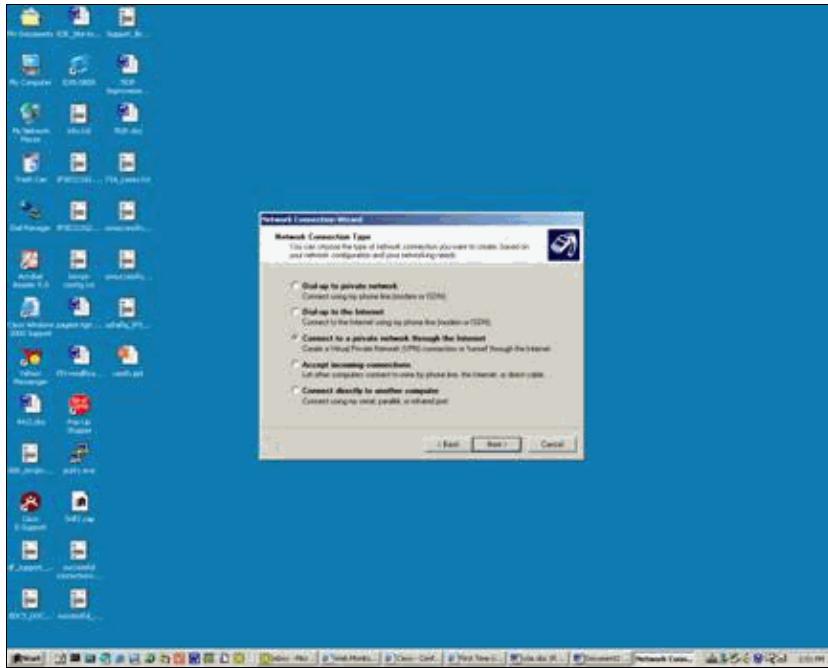
3. Choose **Automatically dial this initial connection**.
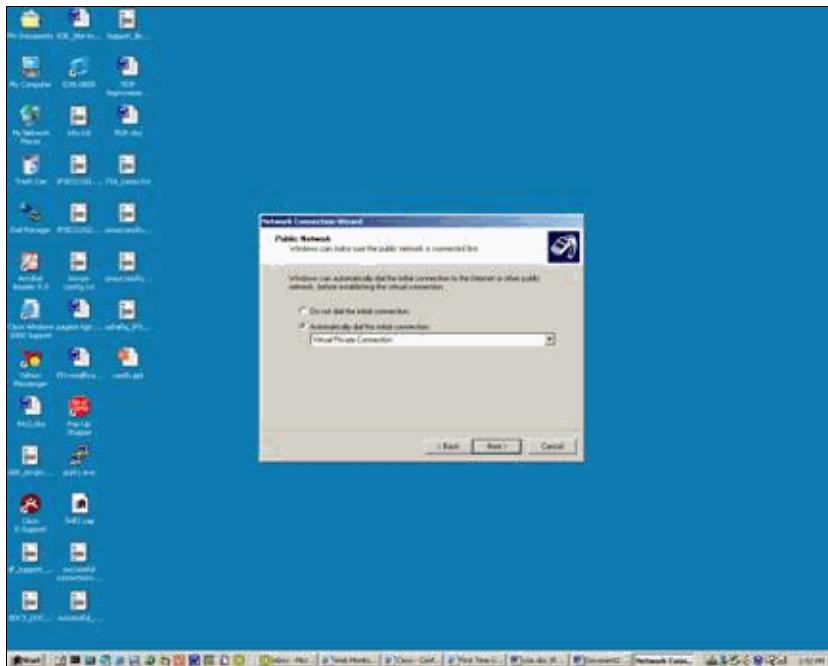
4. Specify a Destination Address in the Host or IP address field and click **Next**.
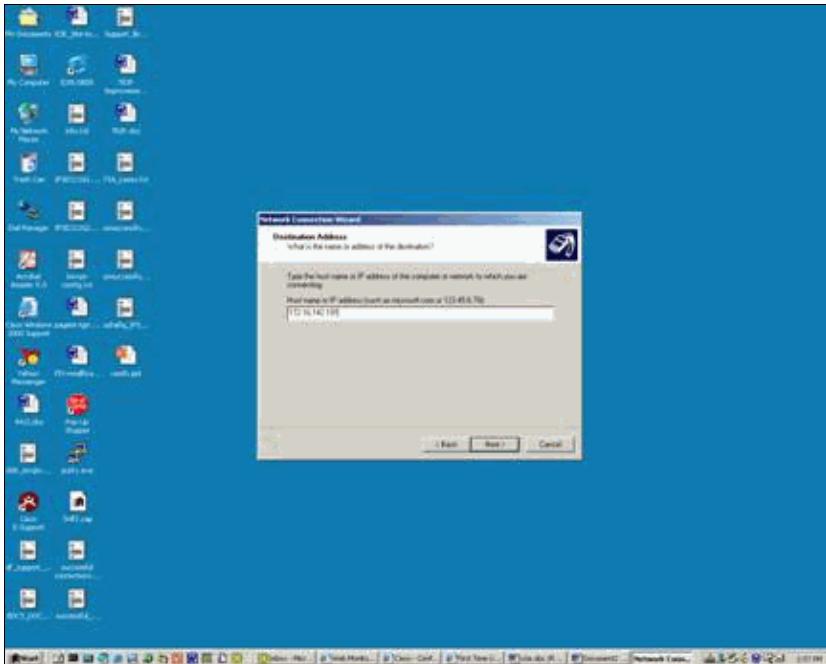
5. Choose **Start > Settings > Network and Dial up connections** and select the recently configured connection.
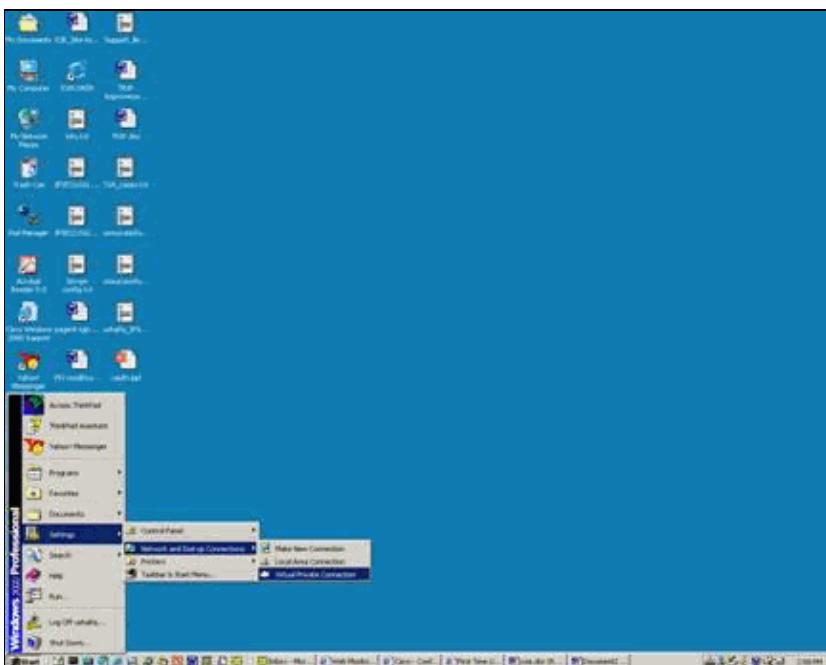
6. After this window appears, choose **Properties > Security** in order to set the option properly.
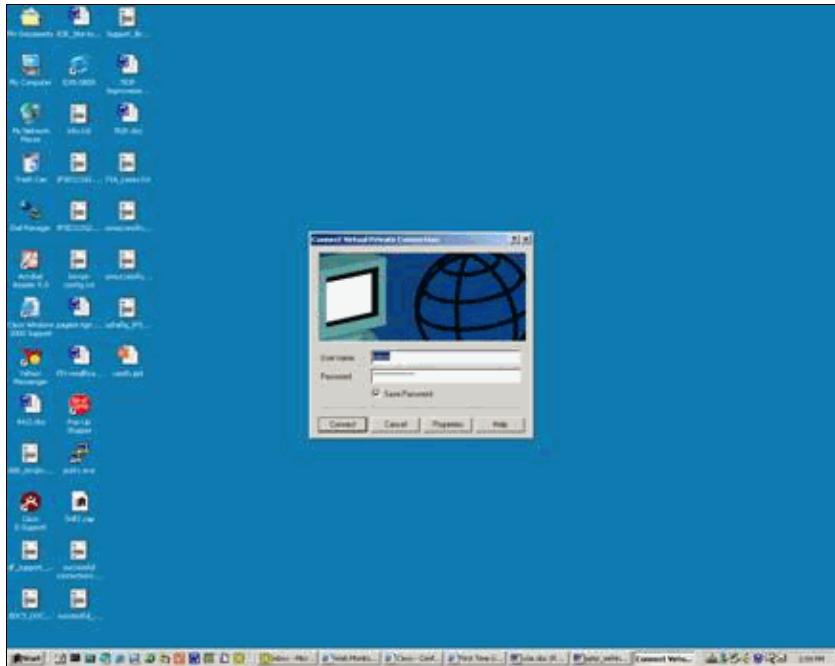
7. Choose **Advanced (customer settings)**, choose **Settings**, and select the appropriate encryption (Data Encryption) level and authentication (allow these protocols).
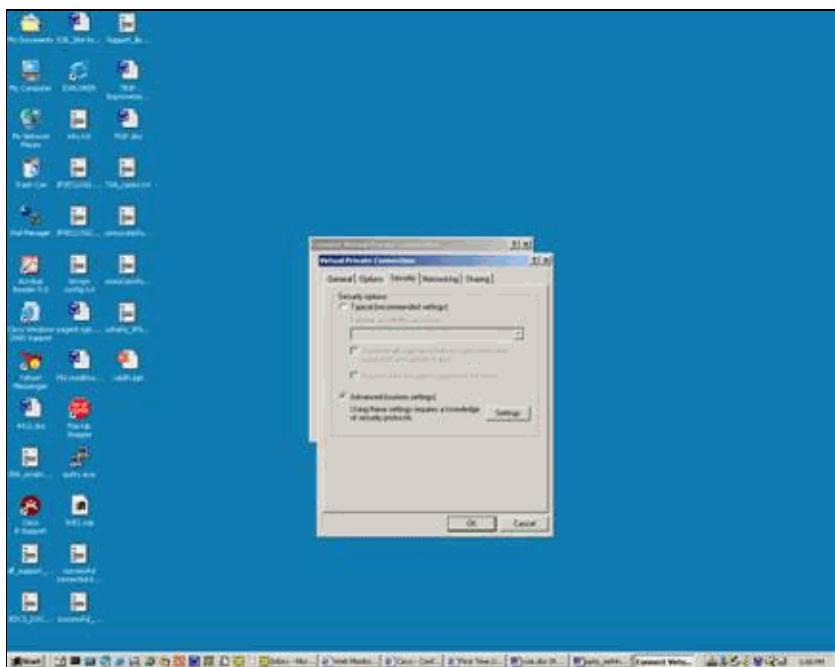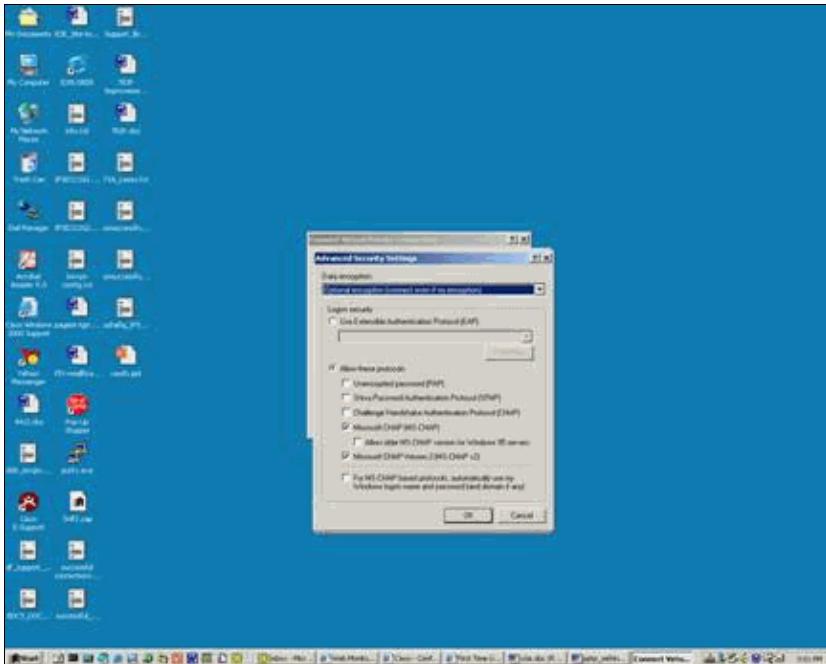
8. Under Networking (type of VPN server that is called) choose **PPTP** and click **OK**.
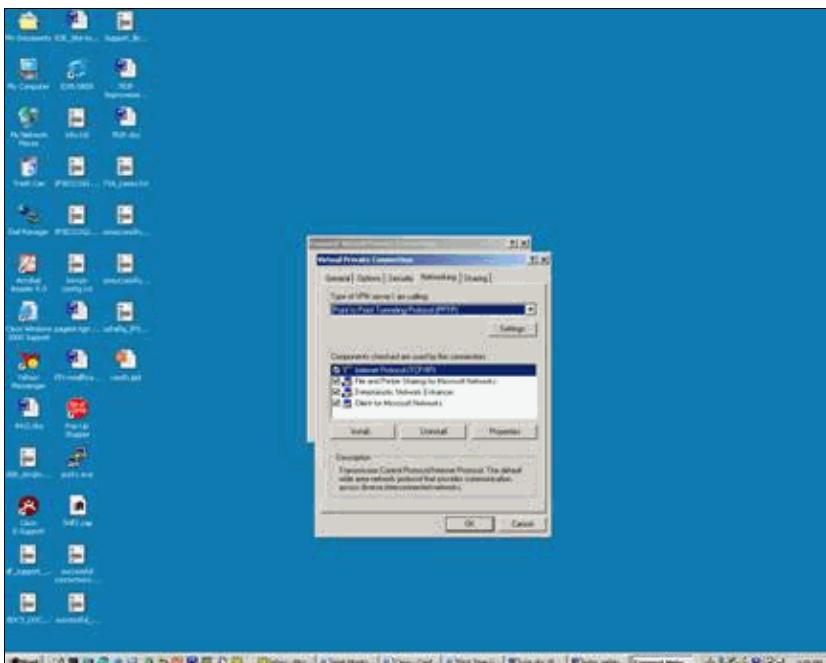
9. The Verifying username and password window appears.
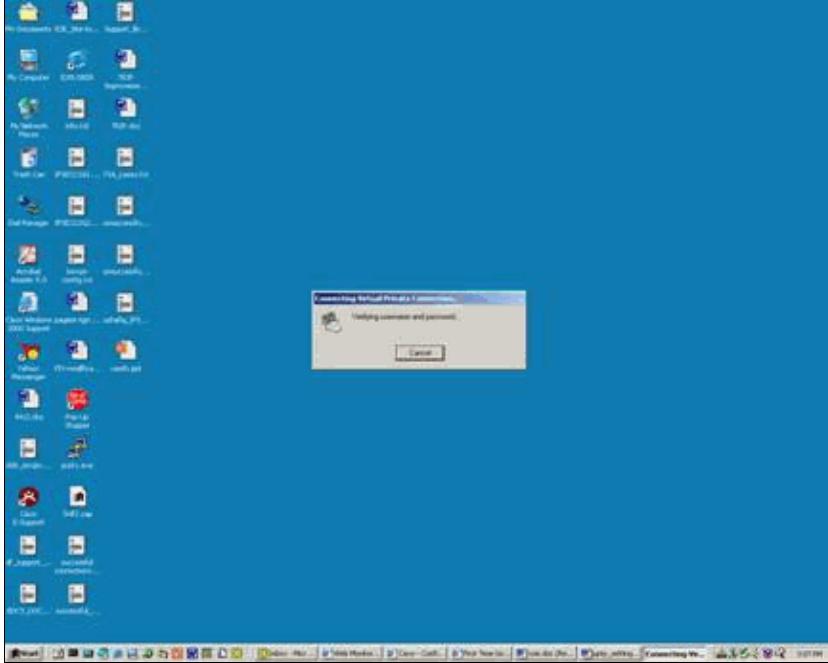
10. The Registering your computer on the network window appears.
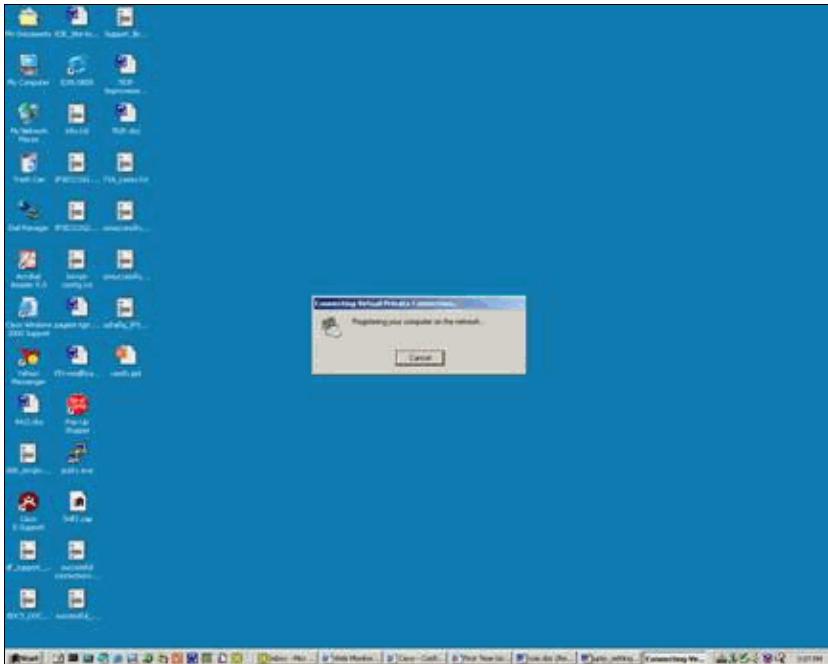
11. The Connections Properties window appears.
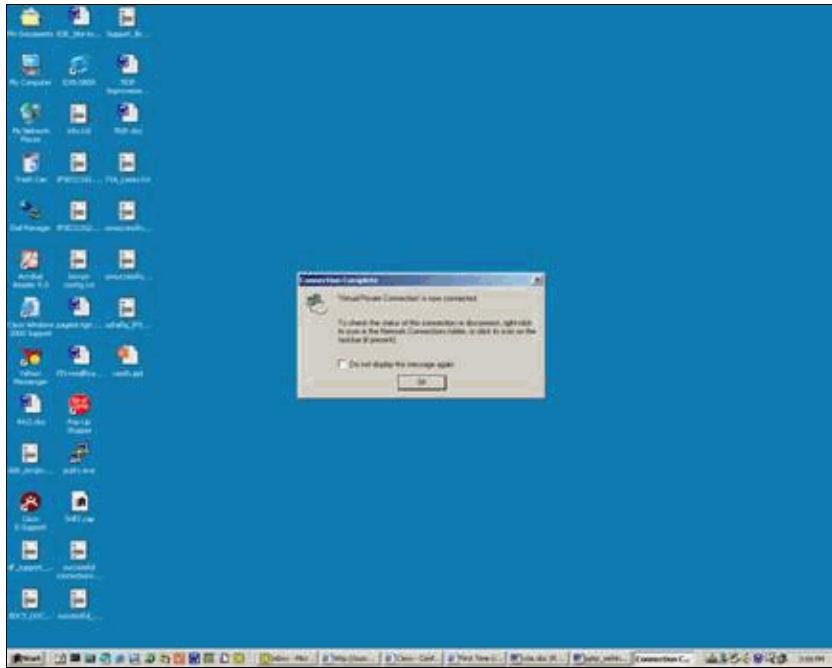
12. These windows display the Connection Status.
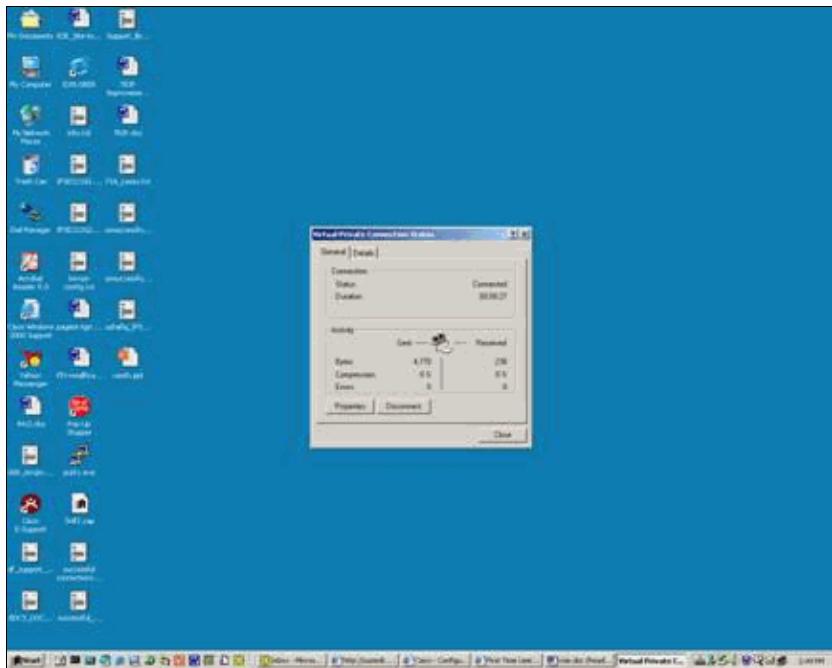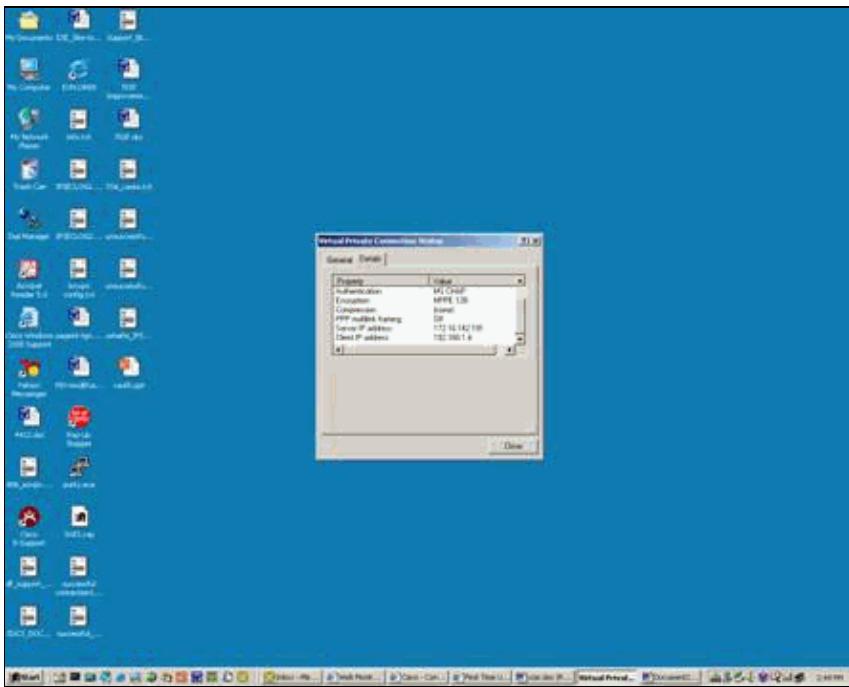
Verify

This section provides information you can use in order to confirm that your configuration works properly.

The Output Interpreter Tool (registered customers only) (OIT) supports certain **show** commands. Use the OIT to view an analysis of **show** command output.

- **show debug** Displays **debug** commands currently enabled in order to troubleshoot
- **show user** Displays users currently logged on and their status
- **show ip route connected** Displays the current state of the routing table
- **show vpdn** Displays information about active Layer 2 Tunnel Protocol (L2TP) or Layer 2 Forwarding (L2F) Protocol tunnel and message identifiers in a virtual private dialup network (VPDN)

This is sample output of the **show debug** command.

```
2621#show debug
PPP:
  PPP authentication debugging is on
  PPP protocol negotiation debugging is on


VPN:
  VPDN events debugging is on
```

This is debug output with the initial PPTP configured.

```
2621#
*Mar  5 02:16:25.675: ppp2 PPP: Using vpn set call direction
*Mar  5 02:16:25.675: ppp2 PPP: Treating connection as a callin
*Mar  5 02:16:25.675: ppp2 PPP: Phase is ESTABLISHING, Passive Open
*Mar  5 02:16:25.675: ppp2 LCP: State is Listen
*Mar  5 02:16:27.663: ppp2 LCP: TIMEout: State Listen
*Mar  5 02:16:27.663: ppp2 PPP: Authorization required
*Mar  5 02:16:27.663: ppp2 LCP: O CONFREQ [Listen] id 1 len 14
*Mar  5 02:16:27.663: ppp2 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:16:27.663: ppp2 LCP:    MagicNumber 0x1658CF62 (0x05061658CF62)
*Mar  5 02:16:27.667: ppp2 LCP: I CONFACK [REQsent] id 1 len 14
```

```
*Mar  5 02:16:27.667: ppp2 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:16:27.667: ppp2 LCP:    MagicNumber 0x1658CF62 (0x05061658CF62)
*Mar  5 02:16:27.695: ppp2 LCP: I CONFREQ [ACKrcvd] id 1 len 44
*Mar  5 02:16:27.695: ppp2 LCP:    MagicNumber 0x131A2427 (0x0506131A2427)
*Mar  5 02:16:27.695: ppp2 LCP:    PFC (0x0702)
*Mar  5 02:16:27.695: ppp2 LCP:    ACFC (0x0802)
*Mar  5 02:16:27.695: ppp2 LCP:    Callback 6  (0x0D0306)
*Mar  5 02:16:27.695: ppp2 LCP:    MRRU 1614 (0x1104064E)
*Mar  5 02:16:27.695: ppp2 LCP:    EndpointDisc 1 Local
*Mar  5 02:16:27.699: ppp2 LCP:     (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:16:27.699: ppp2 LCP:     (0x897EAE00000002)
*Mar  5 02:16:27.699: ppp2 LCP: O CONFREJ [ACKrcvd] id 1 len 11
*Mar  5 02:16:27.699: ppp2 LCP:    Callback 6  (0x0D0306)
*Mar  5 02:16:27.699: ppp2 LCP:    MRRU 1614 (0x1104064E)
*Mar  5 02:16:27.703: ppp2 LCP: I CONFREQ [ACKrcvd] id 2 len 37
*Mar  5 02:16:27.703: ppp2 LCP:    MagicNumber 0x131A2427 (0x0506131A2427)
*Mar  5 02:16:27.703: ppp2 LCP:    PFC (0x0702)
*Mar  5 02:16:27.707: ppp2 LCP:    ACFC (0x0802)
*Mar  5 02:16:27.707: ppp2 LCP:    EndpointDisc 1 Local
*Mar  5 02:16:27.707: ppp2 LCP:     (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:16:27.707: ppp2 LCP:     (0x897EAE00000002)
*Mar  5 02:16:27.707: ppp2 LCP: O CONFACK [ACKrcvd] id 2 len 37
*Mar  5 02:16:27.707: ppp2 LCP:    MagicNumber 0x131A2427 (0x0506131A2427)
*Mar  5 02:16:27.707: ppp2 LCP:    PFC (0x0702)
*Mar  5 02:16:27.707: ppp2 LCP:    ACFC (0x0802)
*Mar  5 02:16:27.711: ppp2 LCP:    EndpointDisc 1 Local
*Mar  5 02:16:27.711: ppp2 LCP:     (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:16:27.711: ppp2 LCP:     (0x897EAE00000002)
*Mar  5 02:16:27.711: ppp2 LCP: State is Open
*Mar  5 02:16:27.711: ppp2 PPP: Phase is AUTHENTICATING, by this end
*Mar  5 02:16:27.715: ppp2 LCP: I IDENTIFY [Open] id 3 len 18 magic
                                0x131A2427 MSRASV5.00
*Mar  5 02:16:27.719: ppp2 LCP: I IDENTIFY [Open] id 4 len 28 magic
                                0x131A2427 MSRAS-1-USHAFIQ-W2K1
*Mar  5 02:16:27.719: ppp2 PAP: I AUTH-REQ id 1 len 19 from "cisco"
*Mar  5 02:16:27.719: ppp2 PAP: Authenticating peer cisco
*Mar  5 02:16:27.719: ppp2 PPP: Phase is FORWARDING, Attempting Forward
*Mar  5 02:16:27.719: ppp2 PPP: Phase is AUTHENTICATING, Unauthenticated User
*Mar  5 02:16:27.719: ppp2 PPP: Sent PAP LOGIN Request
*Mar  5 02:16:27.723: ppp2 PPP: Received LOGIN Response PASS
*Mar  5 02:16:27.723: ppp2 PPP: Phase is FORWARDING, Attempting Forward
*Mar  5 02:16:27.727: Vi4 PPP: Phase is DOWN, Setup
*Mar  5 02:16:27.727:    Tnl/Sn3/3 PPTP: Virtual interface created for
                         bandwidth 100000 Kbps
*Mar  5 02:16:27.731: Vi4  Tnl/Sn3/3 PPTP: VPDN session up
*Mar  5 02:16:27.735: %LINK-3-UPDOWN: Interface Virtual-Access4, changed state to up
*Mar  5 02:16:27.735: Vi4 PPP: Phase is AUTHENTICATING, Authenticated User
*Mar  5 02:16:27.735: Vi4 PAP: O AUTH-ACK id 1 len 5
*Mar  5 02:16:27.739: Vi4 PPP: Phase is UP
*Mar  5 02:16:27.739: Vi4 IPCP: O CONFREQ [Closed] id 1 len 10
*Mar  5 02:16:27.739: Vi4 IPCP:    Address 172.16.142.191 (0x0306AC108EBF)
*Mar  5 02:16:27.739: Vi4 CCP: O CONFREQ [Closed] id 1 len 4
*Mar  5 02:16:27.739: Vi4 PPP: Process pending packets
*Mar  5 02:16:27.747: Vi4 CCP: I CONFREQ [REQsent] id 5 len 10
*Mar  5 02:16:27.747: Vi4 CCP:    MS-PPC supported bits 0x01000001 (0x120601000001)
*Mar  5 02:16:27.747: Vi4 CCP: O CONFNAK [REQsent] id 5 len 10
*Mar  5 02:16:27.751: Vi4 CCP:    MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar  5 02:16:27.751: Vi4 CCP: I CONFACK [REQsent] id 1 len 4
*Mar  5 02:16:27.751: Vi4 IPCP: I CONFREQ [REQsent] id 6 len 34
*Mar  5 02:16:27.751: Vi4 IPCP:    Address 0.0.0.0 (0x030600000000)
*Mar  5 02:16:27.751: Vi4 IPCP:    PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar  5 02:16:27.751: Vi4 IPCP:    PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar  5 02:16:27.755: Vi4 IPCP:    SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar  5 02:16:27.755: Vi4 IPCP:    SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar  5 02:16:27.755: Vi4 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  5 02:16:27.755: Vi4 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 0.0.0.0
```

```
*Mar  5 02:16:27.755: Vi4 IPCP: Pool returned 192.168.1.4
*Mar  5 02:16:27.755: Vi4 IPCP: O CONFREJ [REQsent] id 6 len 28
*Mar  5 02:16:27.759: Vi4 IPCP:    PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar  5 02:16:27.759: Vi4 IPCP:    PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar  5 02:16:27.759: Vi4 IPCP:    SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar  5 02:16:27.759: Vi4 IPCP:    SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar  5 02:16:27.759: Vi4 IPCP: I CONFACK [REQsent] id 1 len 10
*Mar  5 02:16:27.759: Vi4 IPCP:    Address 172.16.142.191 (0x0306AC108EBF)
*Mar  5 02:16:27.763: Vi4 CCP: I CONFREQ [ACKrcvd] id 7 len 4
*Mar  5 02:16:27.767: Vi4 CCP: O CONFACK [ACKrcvd] id 7 len 4
*Mar  5 02:16:27.767: Vi4 CCP: State is Open
*Mar  5 02:16:27.767: Vi4 CCP: Compression not negotiated
*Mar  5 02:16:27.767: Vi4 CCP: Decompression not negotiated
*Mar  5 02:16:27.767: Vi4 CCP: Negotiation mismatch, closing CCP
*Mar  5 02:16:27.767: Vi4 CCP: O TERMREQ [Open] id 2 len 4
*Mar  5 02:16:27.767: Vi4 IPCP: I CONFREQ [ACKrcvd] id 8 len 10
*Mar  5 02:16:27.767: Vi4 IPCP:    Address 0.0.0.0 (0x030600000000)
*Mar  5 02:16:27.771: Vi4 IPCP: O CONFNAK [ACKrcvd] id 8 len 10
*Mar  5 02:16:27.771: Vi4 IPCP:    Address 192.168.1.4 (0x0306C0A80104)
*Mar  5 02:16:27.775: Vi4 CCP: I TERMACK [TERMsent] id 2 len 4
*Mar  5 02:16:27.775: Vi4 CCP: State is Closed
*Mar  5 02:16:27.775: Vi4 IPCP: I CONFREQ [ACKrcvd] id 9 len 10
*Mar  5 02:16:27.775: Vi4 IPCP:    Address 192.168.1.4 (0x0306C0A80104)
*Mar  5 02:16:27.775: Vi4 IPCP: O CONFACK [ACKrcvd] id 9 len 10
*Mar  5 02:16:27.779: Vi4 IPCP:    Address 192.168.1.4 (0x0306C0A80104)
*Mar  5 02:16:27.779: Vi4 IPCP: State is Open
*Mar  5 02:16:27.783: Vi4 IPCP: Install route to 192.168.1.4
*Mar  5 02:16:27.783: Vi4 IPCP: Add link info for cef entry 192.168.1.4
*Mar  5 02:16:28.735: %LINEPROTO-5-UPDOWN: Line protocol on Interface
                       Virtual-Access4, changed state to up
*Mar  5 02:16:37.743: Vi4 CCP: O CONFREQ [Closed] id 3 len 4
2621#
2621#
```

This is debug output with the required MPPE and MS–CHAP configuration.

```
2621#
*Mar  5 02:25:01.815: ppp4 PPP: Using vpn set call direction
*Mar  5 02:25:01.815: ppp4 PPP: Treating connection as a callin
*Mar  5 02:25:01.815: ppp4 PPP: Phase is ESTABLISHING, Passive Open
*Mar  5 02:25:01.815: ppp4 LCP: State is Listen
*Mar  5 02:25:03.823: ppp4 LCP: TIMEout: State Listen
*Mar  5 02:25:03.823: ppp4 PPP: Authorization required
*Mar  5 02:25:03.823: ppp4 LCP: O CONFREQ [Listen] id 1 len 15
*Mar  5 02:25:03.823: ppp4 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:25:03.823: ppp4 LCP:    MagicNumber 0x1660AFA4 (0x05061660AFA4)
*Mar  5 02:25:03.843: ppp4 LCP: I CONFACK [REQsent] id 1 len 15
*Mar  5 02:25:03.843: ppp4 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:25:03.843: ppp4 LCP:    MagicNumber 0x1660AFA4 (0x05061660AFA4)
*Mar  5 02:25:03.843: ppp4 LCP: I CONFREQ [ACKrcvd] id 1 len 44
*Mar  5 02:25:03.843: ppp4 LCP:    MagicNumber 0x4B5A2A81 (0x05064B5A2A81)
*Mar  5 02:25:03.843: ppp4 LCP:    PFC (0x0702)
*Mar  5 02:25:03.847: ppp4 LCP:    ACFC (0x0802)
*Mar  5 02:25:03.847: ppp4 LCP:    Callback 6  (0x0D0306)
*Mar  5 02:25:03.847: ppp4 LCP:    MRRU 1614 (0x1104064E)
*Mar  5 02:25:03.847: ppp4 LCP:    EndpointDisc 1 Local
*Mar  5 02:25:03.847: ppp4 LCP:     (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:25:03.847: ppp4 LCP:     (0x897EAE00000004)
*Mar  5 02:25:03.847: ppp4 LCP: O CONFREJ [ACKrcvd] id 1 len 11
*Mar  5 02:25:03.847: ppp4 LCP:    Callback 6  (0x0D0306)
*Mar  5 02:25:03.851: ppp4 LCP:    MRRU 1614 (0x1104064E)
*Mar  5 02:25:03.851: ppp4 LCP: I CONFREQ [ACKrcvd] id 2 len 37
*Mar  5 02:25:03.855: ppp4 LCP:    MagicNumber 0x4B5A2A81 (0x05064B5A2A81)
*Mar  5 02:25:03.855: ppp4 LCP:    PFC (0x0702)
*Mar  5 02:25:03.855: ppp4 LCP:    ACFC (0x0802)
*Mar  5 02:25:03.855: ppp4 LCP:    EndpointDisc 1 Local
```

```
*Mar  5 02:25:03.855: ppp4 LCP:      (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:25:03.855: ppp4 LCP:      (0x897EAE00000004)
*Mar  5 02:25:03.855: ppp4 LCP: O CONFACK [ACKrcvd] id 2 len 37
*Mar  5 02:25:03.859: ppp4 LCP:     MagicNumber 0x4B5A2A81 (0x05064B5A2A81)
*Mar  5 02:25:03.859: ppp4 LCP:     PFC (0x0702)
*Mar  5 02:25:03.859: ppp4 LCP:     ACFC (0x0802)
*Mar  5 02:25:03.859: ppp4 LCP:     EndpointDisc 1 Local
*Mar  5 02:25:03.859: ppp4 LCP:      (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:25:03.859: ppp4 LCP:      (0x897EAE00000004)
*Mar  5 02:25:03.859: ppp4 LCP: State is Open
*Mar  5 02:25:03.859: ppp4 PPP: Phase is AUTHENTICATING, by this end
*Mar  5 02:25:03.863: ppp4 MS-CHAP: O CHALLENGE id 1 len 21 from "2621    "
*Mar  5 02:25:03.867: ppp4 LCP: I IDENTIFY [Open] id 3 len 18 magic 0x4B5A2A81
                     MSRASV5.00
*Mar  5 02:25:03.867: ppp4 LCP: I IDENTIFY [Open] id 4 len 28 magic 0x4B5A2A81
                     MSRAS-1-USHAFIQ-W2K1
*Mar  5 02:25:03.867: ppp4 MS-CHAP: I RESPONSE id 1 len 59 from "cisco"
*Mar  5 02:25:03.867: ppp4 PPP: Phase is FORWARDING, Attempting Forward
*Mar  5 02:25:03.871: ppp4 PPP: Phase is AUTHENTICATING, Unauthenticated User
*Mar  5 02:25:03.871: ppp4 PPP: Sent MSCHAP LOGIN Request
*Mar  5 02:25:03.963: ppp4 PPP: Received LOGIN Response PASS
*Mar  5 02:25:03.963: ppp4 PPP: Phase is FORWARDING, Attempting Forward
*Mar  5 02:25:03.975: Vi4 PPP: Phase is DOWN, Setup
*Mar  5 02:25:03.975:   Tnl/Sn5/5 PPTP: Virtual interface created for
                     bandwidth 100000 Kbps
*Mar  5 02:25:03.979: Vi4  Tnl/Sn5/5 PPTP: VPDN session up
*Mar  5 02:25:03.983: %LINK-3-UPDOWN: Interface Virtual-Access4, changed state to up
*Mar  5 02:25:03.983: Vi4 PPP: Phase is AUTHENTICATING, Authenticated User
*Mar  5 02:25:03.983: Vi4 MS-CHAP: O SUCCESS id 1 len 4
*Mar  5 02:25:03.987: Vi4 PPP: Phase is UP
*Mar  5 02:25:03.987: Vi4 IPCP: O CONFREQ [Closed] id 1 len 10
*Mar  5 02:25:03.987: Vi4 IPCP:    Address 172.16.142.191 (0x0306AC108EBF)
*Mar  5 02:25:03.987: Vi4 CCP: O CONFREQ [Closed] id 1 len 10
*Mar  5 02:25:03.987: Vi4 CCP:    MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar  5 02:25:03.987: Vi4 PPP: Process pending packets
*Mar  5 02:25:03.995: Vi4 CCP: I CONFREQ [REQsent] id 5 len 10
*Mar  5 02:25:03.995: Vi4 CCP:    MS-PPC supported bits 0x01000001 (0x120601000001)
*Mar  5 02:25:03.999: Vi4 CCP: O CONFNAK [REQsent] id 5 len 10
*Mar  5 02:25:03.999: Vi4 CCP:    MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar  5 02:25:03.999: Vi4 CCP: I CONFNAK [REQsent] id 1 len 10
*Mar  5 02:25:03.999: Vi4 CCP:    MS-PPC supported bits 0x01000040 (0x120601000040)
*Mar  5 02:25:03.999: Vi4 CCP: O CONFREQ [REQsent] id 2 len 10
*Mar  5 02:25:03.999: Vi4 CCP:    MS-PPC supported bits 0x01000040 (0x120601000040)
*Mar  5 02:25:04.003: Vi4 IPCP: I CONFREQ [REQsent] id 6 len 34
*Mar  5 02:25:04.003: Vi4 IPCP:    Address 0.0.0.0 (0x030600000000)
*Mar  5 02:25:04.003: Vi4 IPCP:    PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar  5 02:25:04.003: Vi4 IPCP:    PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar  5 02:25:04.003: Vi4 IPCP:    SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar  5 02:25:04.003: Vi4 IPCP:    SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar  5 02:25:04.003: Vi4 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  5 02:25:04.007: Vi4 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  5 02:25:04.007: Vi4 IPCP: Pool returned 192.168.1.4
*Mar  5 02:25:04.007: Vi4 IPCP: O CONFREJ [REQsent] id 6 len 28
*Mar  5 02:25:04.007: Vi4 IPCP:    PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar  5 02:25:04.007: Vi4 IPCP:    PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar  5 02:25:04.007: Vi4 IPCP:    SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar  5 02:25:04.011: Vi4 IPCP:    SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar  5 02:25:04.011: Vi4 IPCP: I CONFACK [REQsent] id 1 len 10
*Mar  5 02:25:04.011: Vi4 IPCP:    Address 172.16.142.191 (0x0306AC108EBF)
*Mar  5 02:25:04.015: Vi4 CCP: I CONFREQ [REQsent] id 7 len 10
*Mar  5 02:25:04.015: Vi4 CCP:    MS-PPC supported bits 0x01000040 (0x120601000040)
*Mar  5 02:25:04.015: Vi4 CCP: O CONFACK [REQsent] id 7 len 10
*Mar  5 02:25:04.015: Vi4 CCP:    MS-PPC supported bits 0x01000040 (0x120601000040)
*Mar  5 02:25:04.019: Vi4 CCP: I CONFACK [ACKsent] id 2 len 10
*Mar  5 02:25:04.019: Vi4 CCP:    MS-PPC supported bits 0x01000040 (0x120601000040)
*Mar  5 02:25:04.019: Vi4 CCP: State is Open
```

```
*Mar  5 02:25:04.023: Vi4 IPCP: I CONFREQ [ACKrcvd] id 8 len 10
*Mar  5 02:25:04.027: Vi4 IPCP:    Address 0.0.0.0 (0x030600000000)
*Mar  5 02:25:04.027: Vi4 IPCP: O CONFNAK [ACKrcvd] id 8 len 10
*Mar  5 02:25:04.027: Vi4 IPCP:    Address 192.168.1.4 (0x0306C0A80104)
*Mar  5 02:25:04.031: Vi4 IPCP: I CONFREQ [ACKrcvd] id 9 len 10
*Mar  5 02:25:04.031: Vi4 IPCP:    Address 192.168.1.4 (0x0306C0A80104)
*Mar  5 02:25:04.031: Vi4 IPCP: O CONFACK [ACKrcvd] id 9 len 10
*Mar  5 02:25:04.031: Vi4 IPCP:    Address 192.168.1.4 (0x0306C0A80104)
*Mar  5 02:25:04.031: Vi4 IPCP: State is Open
*Mar  5 02:25:04.035: Vi4 IPCP: Install route to 192.168.1.4
*Mar  5 02:25:04.035: Vi4 IPCP: Add link info for cef entry 192.168.1.4
*Mar  5 02:25:04.983: %LINEPROTO-5-UPDOWN: Line protocol on Interface
                      Virtual-Access4, changed state to up
```

This **show user** output is before MS−CHAP and MPPE are enabled.

```
2621#show user
    Line       User        Host(s)              Idle       Location
*  0 con 0                 idle                 00:00:00

  Interface   User                  Mode       Idle    Peer Address
  Vi4         cisco                 PPPoVPDN    00:00:01 192.168.1.4
```

This **show user** output is after MS−CHAP and MPPE are enabled.

```
2621#show user
    Line       User        Host(s)              Idle       Location
*  0 con 0                 idle                 00:00:00

  Interface   User                  Mode       Idle    Peer Address
  Vi4         cisco                 PPPoVPDN    00:00:00 192.168.1.4
```

This **show ip route connected** output is before MS−CHAP and MPPE are enabled.

```
2621#show ip route connected
      172.16.0.0/24 is subnetted, 1 subnets
C        172.16.142.0 is directly connected, FastEthernet0/0
      10.0.0.0/24 is subnetted, 1 subnets
C        10.100.100.0 is directly connected, Loopback0
      192.168.1.0/32 is subnetted, 1 subnets
C        192.168.1.4 is directly connected, Virtual-Access4
```

This **show vpdn** output is before MS−CHAP and MPPE are enabled.

```
2621#show vpdn

%No active L2TP tunnels

%No active L2F tunnels

PPTP Tunnel and Session Information Total tunnels 1 sessions 1

LocID Remote Name     State     Remote Address  Port  Sessions VPDN Group
3                     estabd    171.69.89.81    4737  1        1

LocID RemID TunID Intf    Username      State   Last Chg Uniq ID
3     32768 3     Vi4     cisco         estabd  00:01:44 2

%No active PPPoE tunnels
```

This **show vpdn** output is after MS−CHAP and MPPE are enabled.

```
2621#show vpdn
```

```
%No active L2TP tunnels

%No active L2F tunnels

PPTP Tunnel and Session Information Total tunnels 1 sessions 1

LocID Remote Name      State      Remote Address  Port  Sessions VPDN Group
5                      estabd     171.69.89.81    4893  1        1

LocID RemID TunID Intf     Username        State     Last Chg Uniq ID
5     0     5     Vi4      cisco           estabd    00:00:37 4

%No active PPPoE tunnels
```

Troubleshoot

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

Troubleshooting Commands

Certain **show** commands are supported by the Output Interpreter Tool (registered customers only) , which allows you to view an analysis of **show** command output.

Note: Refer to Important Information on Debug Commands before you use **debug** commands.

- **clear vpdn tunnel pptp** Used to shut down a specified tunnel and all sessions within the tunnel and clears the specified PPTP tunnel

```
2621#clear vpdn tunnel pptp ip remote 171.69.89.81
Starting to clear the tunnel

2621#
*Mar  5 02:27:35.611: Vi4 PPP: Sending Acct Event[Down] id[5]
*Mar  5 02:27:35.611: Vi4 VPDN: Reseting interface
*Mar  5 02:27:35.611: Vi4 PPP: Block vaccess from being freed [0x1D]
*Mar  5 02:27:35.619: %LINK-3-UPDOWN: Interface Virtual-Access4, changed state to down
*Mar  5 02:27:35.619: Vi4 CCP: State is Closed
*Mar  5 02:27:35.623: Vi4 MPPE: Required encryption not negotiated
*Mar  5 02:27:35.623: Vi4 IPCP: Remove link info for cef entry 192.168.1.4
*Mar  5 02:27:35.623: Vi4 PPP: Unlocked by [0x4] Still Locked by [0x1B]
*Mar  5 02:27:35.623: Vi4 PPP: Unlocked by [0x10] Still Locked by [0xB]
*Mar  5 02:27:35.623: Vi4 PPP: Phase is TERMINATING
*Mar  5 02:27:35.627: Vi4 LCP: O TERMREQ [Open] id 2 len 4
*Mar  5 02:27:35.627: Vi4 IPCP: State is Closed
*Mar  5 02:27:35.627: Vi4 PPP: Unlocked by [0x8] Still Locked by [0x3]
*Mar  5 02:27:35.627: Vi4 LCP: State is Closed
*Mar  5 02:27:35.627: Vi4 PPP: Phase is DOWN
*Mar  5 02:27:35.627: Vi4 PPP: Unlocked by [0x2] Still Locked by [0x1]
*Mar  5 02:27:35.639: Vi4 IPCP: Remove route to 192.168.1.4
*Mar  5 02:27:35.639: Vi4 PPP: Unlocked by [0x1] Still Locked by [0x0]
*Mar  5 02:27:35.639: Vi4 PPP: Free previously blocked vaccess
*Mar  5 02:27:36.619: %LINEPROTO-5-UPDOWN: Line protocol on Interface
 Virtual-Access4, changed state to down
```

Ecryption Mismatch Debug output of the router configured for 128 strong encryption when the VPN Client is configured for 40 bit encryption.

```
2621#
2621#
*Mar  5 02:29:36.339: ppp5 PPP: Using vpn set call direction
```

```
*Mar  5 02:29:36.339: ppp5 PPP: Treating connection as a callin
*Mar  5 02:29:36.339: ppp5 PPP: Phase is ESTABLISHING, Passive Open
*Mar  5 02:29:36.343: ppp5 LCP: State is Listen
*Mar  5 02:29:38.351: ppp5 LCP: TIMEout: State Listen
*Mar  5 02:29:38.351: ppp5 PPP: Authorization required
*Mar  5 02:29:38.351: ppp5 LCP: O CONFREQ [Listen] id 1 len 15
*Mar  5 02:29:38.351: ppp5 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:29:38.351: ppp5 LCP:    MagicNumber 0x1664E006 (0x05061664E006)
*Mar  5 02:29:38.359: ppp5 LCP: I CONFACK [REQsent] id 1 len 15
*Mar  5 02:29:38.359: ppp5 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:29:38.359: ppp5 LCP:    MagicNumber 0x1664E006 (0x05061664E006)
*Mar  5 02:29:38.359: ppp5 LCP: I CONFREQ [ACKrcvd] id 1 len 44
*Mar  5 02:29:38.359: ppp5 LCP:    MagicNumber 0x793D5ED8 (0x0506793D5ED8)
*Mar  5 02:29:38.363: ppp5 LCP:    PFC (0x0702)
*Mar  5 02:29:38.363: ppp5 LCP:    ACFC (0x0802)
*Mar  5 02:29:38.363: ppp5 LCP:    Callback 6  (0x0D0306)
*Mar  5 02:29:38.363: ppp5 LCP:    MRRU 1614 (0x1104064E)
*Mar  5 02:29:38.363: ppp5 LCP:    EndpointDisc 1 Local
*Mar  5 02:29:38.363: ppp5 LCP:     (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:29:38.363: ppp5 LCP:     (0x897EAE00000005)
*Mar  5 02:29:38.363: ppp5 LCP: O CONFREJ [ACKrcvd] id 1 len 11
*Mar  5 02:29:38.367: ppp5 LCP:    Callback 6  (0x0D0306)
*Mar  5 02:29:38.367: ppp5 LCP:    MRRU 1614 (0x1104064E)
*Mar  5 02:29:38.367: ppp5 LCP: I CONFREQ [ACKrcvd] id 2 len 37
*Mar  5 02:29:38.371: ppp5 LCP:    MagicNumber 0x793D5ED8 (0x0506793D5ED8)
*Mar  5 02:29:38.371: ppp5 LCP:    PFC (0x0702)
*Mar  5 02:29:38.371: ppp5 LCP:    ACFC (0x0802)
*Mar  5 02:29:38.371: ppp5 LCP:    EndpointDisc 1 Local
*Mar  5 02:29:38.371: ppp5 LCP:     (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:29:38.371: ppp5 LCP:     (0x897EAE00000005)
*Mar  5 02:29:38.371: ppp5 LCP: O CONFACK [ACKrcvd] id 2 len 37
*Mar  5 02:29:38.375: ppp5 LCP:    MagicNumber 0x793D5ED8 (0x0506793D5ED8)
*Mar  5 02:29:38.375: ppp5 LCP:    PFC (0x0702)
*Mar  5 02:29:38.375: ppp5 LCP:    ACFC (0x0802)
*Mar  5 02:29:38.375: ppp5 LCP:    EndpointDisc 1 Local
*Mar  5 02:29:38.375: ppp5 LCP:     (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:29:38.375: ppp5 LCP:     (0x897EAE00000005)
*Mar  5 02:29:38.375: ppp5 LCP: State is Open
*Mar  5 02:29:38.375: ppp5 PPP: Phase is AUTHENTICATING, by this end
*Mar  5 02:29:38.379: ppp5 MS-CHAP: O CHALLENGE id 1 len 21 from "2621    "
*Mar  5 02:29:38.383: ppp5 LCP: I IDENTIFY [Open] id 3 len 18 magic
                      0x793D5ED8 MSRASV5.00
*Mar  5 02:29:38.383: ppp5 LCP: I IDENTIFY [Open] id 4 len 28 magic
                      0x793D5ED8 MSRAS-1-USHAFIQ-W2K1
*Mar  5 02:29:38.383: ppp5 MS-CHAP: I RESPONSE id 1 len 59 from "cisco"
*Mar  5 02:29:38.383: ppp5 PPP: Phase is FORWARDING, Attempting Forward
*Mar  5 02:29:38.387: ppp5 PPP: Phase is AUTHENTICATING, Unauthenticated User
*Mar  5 02:29:38.387: ppp5 PPP: Sent MSCHAP LOGIN Request
*Mar  5 02:29:38.475: ppp5 PPP: Received LOGIN Response PASS
*Mar  5 02:29:38.479: ppp5 PPP: Phase is FORWARDING, Attempting Forward
*Mar  5 02:29:38.483: Vi4 PPP: Phase is DOWN, Setup
*Mar  5 02:29:38.483:   Tnl/Sn6/6 PPTP: Virtual interface created for
                        bandwidth 100000 Kbps
*Mar  5 02:29:38.483: Vi4  Tnl/Sn6/6 PPTP: VPDN session up
*Mar  5 02:29:38.487: %LINK-3-UPDOWN: Interface Virtual-Access4, changed state to up
*Mar  5 02:29:38.487: Vi4 PPP: Phase is AUTHENTICATING, Authenticated User
*Mar  5 02:29:38.487: Vi4 MS-CHAP: O SUCCESS id 1 len 4
*Mar  5 02:29:38.491: Vi4 PPP: Phase is UP
*Mar  5 02:29:38.491: Vi4 IPCP: O CONFREQ [Closed] id 1 len 10
*Mar  5 02:29:38.491: Vi4 IPCP:    Address 172.16.142.191 (0x0306AC108EBF)
*Mar  5 02:29:38.491: Vi4 CCP: O CONFREQ [Closed] id 1 len 10
*Mar  5 02:29:38.491: Vi4 CCP:    MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar  5 02:29:38.491: Vi4 PPP: Process pending packets
*Mar  5 02:29:38.499: Vi4 CCP: I CONFREQ [REQsent] id 5 len 10
*Mar  5 02:29:38.503: Vi4 CCP:    MS-PPC supported bits 0x01000001 (0x120601000001)
*Mar  5 02:29:38.503: Vi4 CCP: O CONFNAK [REQsent] id 5 len 10
```

```
*Mar  5 02:29:38.503: Vi4 CCP:    MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar  5 02:29:38.503: Vi4 CCP: I CONFREJ [REQsent] id 1 len 10
*Mar  5 02:29:38.503: Vi4 CCP:    MS-PPC supported bits 0x01000060 (0x120601000060)
*Mar  5 02:29:38.503: Vi4 MPPE: Required encryption not negotiated
*Mar  5 02:29:38.503: Vi4 PPP: Sending Acct Event[Down] id[6]
*Mar  5 02:29:38.507: Vi4 CCP: State is Closed
*Mar  5 02:29:38.507: Vi4 MPPE: Required encryption not negotiated
*Mar  5 02:29:38.507: Vi4 PPP: Phase is TERMINATING
*Mar  5 02:29:38.507: Vi4 LCP: O TERMREQ [Open] id 2 len 4
*Mar  5 02:29:38.507: Vi4 IPCP: State is Closed
*Mar  5 02:29:38.507: Vi4 LCP: State is Closed
*Mar  5 02:29:38.511: Vi4 PPP: Phase is DOWN
*Mar  5 02:29:38.511: Vi4 VPDN: Reseting interface
*Mar  5 02:29:38.515: Vi4 PPP: Phase is ESTABLISHING, Passive Open
*Mar  5 02:29:38.515: Vi4 LCP: State is Listen
*Mar  5 02:29:38.515: Vi4 CCP: O CONFREQ [Closed] id 2 len 4
*Mar  5 02:29:38.519: %LINK-3-UPDOWN: Interface Virtual-Access4, changed state to down
*Mar  5 02:29:38.519: Vi4 LCP: State is Closed
*Mar  5 02:29:38.519: Vi4 PPP: Phase is DOWN
```

Authentication Mismatch Debug output of the router configured for MS–CHAP and the VPN Client
configured for PAP.

```
*Mar  5 02:30:46.555: ppp6 PPP: Using vpn set call direction
*Mar  5 02:30:46.559: ppp6 PPP: Treating connection as a callin
*Mar  5 02:30:46.559: ppp6 PPP: Phase is ESTABLISHING, Passive Open
*Mar  5 02:30:46.559: ppp6 LCP: State is Listen
*Mar  5 02:30:48.559: ppp6 LCP: TIMEout: State Listen
*Mar  5 02:30:48.559: ppp6 PPP: Authorization required
*Mar  5 02:30:48.559: ppp6 LCP: O CONFREQ [Listen] id 1 len 15
*Mar  5 02:30:48.559: ppp6 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:30:48.559: ppp6 LCP:    MagicNumber 0x1665F247 (0x05061665F247)
*Mar  5 02:30:48.575: ppp6 LCP: I CONFNAK [REQsent] id 1 len 8
*Mar  5 02:30:48.575: ppp6 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:30:48.575: ppp6 LCP: O CONFREQ [REQsent] id 2 len 15
*Mar  5 02:30:48.575: ppp6 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:30:48.575: ppp6 LCP:    MagicNumber 0x1665F247 (0x05061665F247)
*Mar  5 02:30:48.579: ppp6 LCP: I CONFREQ [REQsent] id 1 len 44
*Mar  5 02:30:48.579: ppp6 LCP:    MagicNumber 0x78FD271D (0x050678FD271D)
*Mar  5 02:30:48.579: ppp6 LCP:    PFC (0x0702)
*Mar  5 02:30:48.579: ppp6 LCP:    ACFC (0x0802)
*Mar  5 02:30:48.579: ppp6 LCP:    Callback 6  (0x0D0306)
*Mar  5 02:30:48.579: ppp6 LCP:    MRRU 1614 (0x1104064E)
*Mar  5 02:30:48.579: ppp6 LCP:    EndpointDisc 1 Local
*Mar  5 02:30:48.583: ppp6 LCP:     (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:30:48.583: ppp6 LCP:     (0x897EAE00000006)
*Mar  5 02:30:48.583: ppp6 LCP: O CONFREJ [REQsent] id 1 len 11
*Mar  5 02:30:48.583: ppp6 LCP:    Callback 6  (0x0D0306)
*Mar  5 02:30:48.583: ppp6 LCP:    MRRU 1614 (0x1104064E)
*Mar  5 02:30:48.587: ppp6 LCP: I CONFNAK [REQsent] id 2 len 8
*Mar  5 02:30:48.587: ppp6 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:30:48.587: ppp6 LCP: O CONFREQ [REQsent] id 3 len 15
*Mar  5 02:30:48.587: ppp6 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:30:48.587: ppp6 LCP:    MagicNumber 0x1665F247 (0x05061665F247)
*Mar  5 02:30:48.591: ppp6 LCP: I CONFREQ [REQsent] id 2 len 37
*Mar  5 02:30:48.591: ppp6 LCP:    MagicNumber 0x78FD271D (0x050678FD271D)
*Mar  5 02:30:48.591: ppp6 LCP:    PFC (0x0702)
*Mar  5 02:30:48.591: ppp6 LCP:    ACFC (0x0802)
*Mar  5 02:30:48.591: ppp6 LCP:    EndpointDisc 1 Local
*Mar  5 02:30:48.591: ppp6 LCP:     (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:30:48.595: ppp6 LCP:     (0x897EAE00000006)
*Mar  5 02:30:48.595: ppp6 LCP: O CONFACK [REQsent] id 2 len 37
*Mar  5 02:30:48.595: ppp6 LCP:    MagicNumber 0x78FD271D (0x050678FD271D)
*Mar  5 02:30:48.595: ppp6 LCP:    PFC (0x0702)
*Mar  5 02:30:48.595: ppp6 LCP:    ACFC (0x0802)
```

```
*Mar  5 02:30:48.595: ppp6 LCP:    EndpointDisc 1 Local
*Mar  5 02:30:48.595: ppp6 LCP:     (0x131701E18F20C4D84A435B98EBA4BEA6)
*Mar  5 02:30:48.595: ppp6 LCP:     (0x897EAE00000006)
*Mar  5 02:30:48.599: ppp6 LCP: I CONFNAK [ACKsent] id 3 len 8
*Mar  5 02:30:48.599: ppp6 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:30:48.599: ppp6 LCP: O CONFREQ [ACKsent] id 4 len 15
*Mar  5 02:30:48.599: ppp6 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:30:48.599: ppp6 LCP:    MagicNumber 0x1665F247 (0x05061665F247)
*Mar  5 02:30:48.603: ppp6 LCP: I CONFNAK [ACKsent] id 4 len 8
*Mar  5 02:30:48.603: ppp6 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:30:48.607: ppp6 LCP: O CONFREQ [ACKsent] id 5 len 15
*Mar  5 02:30:48.607: ppp6 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:30:48.607: ppp6 LCP:    MagicNumber 0x1665F247 (0x05061665F247)
*Mar  5 02:30:48.611: ppp6 LCP: I CONFNAK [ACKsent] id 5 len 8
*Mar  5 02:30:48.611: ppp6 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:30:48.611: ppp6 LCP: O CONFREQ [ACKsent] id 6 len 15
*Mar  5 02:30:48.611: ppp6 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:30:48.611: ppp6 LCP:    MagicNumber 0x1665F247 (0x05061665F247)
*Mar  5 02:30:48.615: ppp6 LCP: I CONFNAK [ACKsent] id 6 len 8
*Mar  5 02:30:48.615: ppp6 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:30:48.615: ppp6 LCP: O CONFREQ [ACKsent] id 7 len 15
*Mar  5 02:30:48.615: ppp6 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:30:48.619: ppp6 LCP:    MagicNumber 0x1665F247 (0x05061665F247)
*Mar  5 02:30:48.619: ppp6 LCP: I CONFNAK [ACKsent] id 7 len 8
*Mar  5 02:30:48.619: ppp6 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:30:48.623: ppp6 LCP: O CONFREQ [ACKsent] id 8 len 15
*Mar  5 02:30:48.623: ppp6 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:30:48.623: ppp6 LCP:    MagicNumber 0x1665F247 (0x05061665F247)
*Mar  5 02:30:48.627: ppp6 LCP: I CONFNAK [ACKsent] id 8 len 8
*Mar  5 02:30:48.627: ppp6 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:30:48.627: ppp6 LCP: O CONFREQ [ACKsent] id 9 len 15
*Mar  5 02:30:48.627: ppp6 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:30:48.627: ppp6 LCP:    MagicNumber 0x1665F247 (0x05061665F247)
*Mar  5 02:30:48.631: ppp6 LCP: I CONFNAK [ACKsent] id 9 len 8
*Mar  5 02:30:48.631: ppp6 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:30:48.631: ppp6 LCP: O CONFREQ [ACKsent] id 10 len 15
*Mar  5 02:30:48.635: ppp6 LCP:    AuthProto MS-CHAP (0x0305C22380)
*Mar  5 02:30:48.635: ppp6 LCP:    MagicNumber 0x1665F247 (0x05061665F247)
*Mar  5 02:30:48.635: ppp6 LCP: I CONFNAK [ACKsent] id 10 len 8
*Mar  5 02:30:48.639: ppp6 LCP:    AuthProto PAP (0x0304C023)
*Mar  5 02:30:48.639: ppp6 LCP: Failed to negotiate with peer
*Mar  5 02:30:48.639: ppp6 PPP: Sending Acct Event[Down] id[7]
*Mar  5 02:30:48.639: ppp6 LCP: O TERMREQ [ACKsent] id 11 len 4
*Mar  5 02:30:48.639: ppp6 PPP: Phase is TERMINATING
*Mar  5 02:30:48.647: ppp6 LCP: I TERMACK [TERMsent] id 11 len 4
*Mar  5 02:30:48.647: ppp6 LCP: State is Closed
*Mar  5 02:30:48.647: ppp6 PPP: Phase is DOWN
```

Related Information

- **Configuring the Cisco Secure PIX Firewall to use PPTP**
- **PPTP Support Page**
- **Technical Support & Documentation – Cisco Systems**