

PPTP および MPPE を使用した Cisco ルータと VPN クライアントの設定

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概要

このドキュメントでは、Windows 2000 Point-to-Point Tunneling Protocol (PPTP) クライアントと Microsoft Point-to-Point Encryption Protocol (MPPE) を終端する Cisco IOS® ルータを設定する方法を説明します。

Cisco Secure Access Control Server (ACS) での PPTP 認証についての詳細は、『[Cisco Secure ACS for Windows とルータの PPTP 認証の設定](#)』を参照してください。

前提条件

要件

このドキュメントに関する固有の要件はありません。

使用するコンポーネント

このドキュメントの情報は、次のソフトウェアとハードウェアのバージョンに基づくものです。

- Cisco IOS ソフトウェア リリース 12.2 が稼働する Cisco 2621 ルータ
- Microsoft Windows 2000

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されたものです。このドキュメントで使用するすべてのデバイスは、クリアな (デフォルト) 設定で作業を開始して

います。ネットワークが稼働中の場合は、コマンドが及ぼす潜在的な影響を十分に理解しておく必要があります。

ネットワーク図

このドキュメントでは、次のネットワーク構成を使用しています。

表記法

ドキュメント表記の詳細は、『[シスコテクニカルティップスの表記法](#)』を参照してください。

PPTP ルータの設定

下記の IOS コマンドは、PPTP がサポートされるすべてのプラットフォームに適用可能です。

```
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 ルータ

```
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$VA28yOWzxlCKyjldq8SkE/ ! 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 VPDN. ! 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-Templatel 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#
```

MPPE および MS-CHAP でのルータの設定

```
!--- 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) の設定

次の手順を実行します。

1. [スタート (Start)] > [設定 (Settings)] > [ネットワークとダイヤルアップ接続 (Network and Dial-up Connections)] > [新しい接続の作成 (Make New Connection)] の順に選択します。
2. Network Connection Wizard ウィンドウが表示されたら、**Network Connection Type** と **Connect to a private network through the Internet** を選択します。
3. **Automatically dial this initial connection** を選択します。
4. Host or IP address フィールドで Destination Address を指定して、**Next** をクリックします。
5. [Start] > [Settings] > [Network and Dial up connections] を選択して、直前に設定した接続を選択します。
6. このウィンドウが表示されたら、適切なオプションを設定するために [Properties] > [Security] を選択します。
7. **Advanced (customer settings)** を選択し、次に **Settings** を選択してから、(これらのプロトコルが許可される) 適切な暗号化 (Data Encryption) レベルと認証を選択します。
8. Networking (呼び出される VPN サーバのタイプ) の基で **PPTP** を選択して、**OK** をクリックします。
9. ユーザ名とパスワードの確認中を示すウィンドウが表示されます。
10. ネットワークへのコンピュータの登録中を示すウィンドウが表示されます。
11. Connections Properties ウィンドウが表示されます。
12. 下記のウィンドウに接続状態が表示されます。

確認

このセクションでは、設定が正しく動作していることを確認するために使用できる情報を提供しています。

[Output Interpreter Tool](#) (OIT) ([登録](#) ユーザ専用) では、特定の **show** コマンドがサポートされています。OIT を使用して、**show** コマンド出力の解析を表示できます。

- **show debug** — 解決するために現在有効になる debug コマンドを表示する
- **show user** — 現在ログインされるユーザおよびステータスを表示する
- **show ip route connected** — ルーティング テーブルの現在のステータスを表示する
- **show vpdn** — アクティブレイヤ 2 トンネルプロトコル (L2TP) についての情報をまたはバーチャルプライベートダイヤルアップネットワーク (VPDN) の Layer 2 Forwarding (L2f) プロトコルトンネルおよびメッセージ識別子 表示する

show debug コマンドの出力例を次に示します。

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

初期設定状態の PPTP の debug 出力を次に示します。

```
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 CONFREQ [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 10000 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 CONFREQ
[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#

```

必要とされる MPPE と MS-CHAP の設定での debug 出力を次に示します。

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 CONFREQ [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 CONFREQ [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
```

次の **show user** 出力は、MS-CHAP と MPPE がイネーブルにされる前のものです。

```
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
```

次の **show user** 出力は、MS-CHAP と MPPE がイネーブルにされた後のものです。

```
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
```

次の **show ip route connected** 出力は、MS-CHAP と MPPE がイネーブルにされる前のものです

。

```
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
```

次の **show vpdn** 出力は、MS-CHAP と MPPE がイネーブルにされる前のものです。

```
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
```

次の **show vpdn** 出力は、MS-CHAP と MPPE がイネーブルにされた後のものです。

```
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
```

[トラブルシューティング](#)

ここでは、設定のトラブルシューティングに役立つ情報について説明します。

[トラブルシューティングのためのコマンド](#)

特定の **show** コマンドは、[Output Interpreter Tool](#) ([登録ユーザ専用](#)) によってサポートされています。このツールを使用すると、**show** コマンド出力の分析を表示できます。

注: [debug](#) コマンドを使用する前に、『[debug コマンドの重要な情報](#)』を参照してください。

- **clear vpdn tunnel pptp** —トンネル内の指定トンネルおよびすべてのセッションをシャットダウンするのに使用し、規定された PPTP トンネルをクリアします

```
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
```

Ecrption ミスマッチ—VPN クライアントが 40 ビット暗号化のために設定される場合の 128 強化暗号化のために設定されるルータのデバッグ 出力。

```
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 CONFREQ [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 CONFREQ [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

```

認証 ミスマッチ— MS-CHAP のために設定されるルータおよび PAP のために設定される VPN クライアントのデバッグ 出力。

```

*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 CONFREQ [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
```

[関連情報](#)

- [Cisco Secure PIX Firewall を PPTP を使用するために設定する方法](#)
- [PPTP に関するサポート ページ](#)
- [テクニカルサポートとドキュメント - Cisco Systems](#)