

Configuration d'un routeur Cisco et de clients VPN à l'aide de PPTP et MPPE

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[Introduction](#)

Ce document décrit comment configurer un routeur de Cisco IOS® qui termine des clients du Protocol de canalisation en tunnel point-à-point de Windows 2000 (PPTP), et le cryptage point par point Protocol (MPPE) de Microsoft.

Reportez-vous à [Configuration de Cisco Secure ACS pour l'authentification PPTP de routeurs Windows](#) pour plus d'informations sur l'authentification PPTP avec Cisco Secure Access Control Server (ACS).

[Conditions préalables](#)

[Conditions requises](#)

Aucune spécification déterminée n'est requise pour ce document.

[Composants utilisés](#)

Les informations de ce document sont basées sur les versions de logiciel et matériel suivantes :

- Routeur Cisco 2621 exécutant le logiciel Cisco IOS Version 12.2
- Microsoft Windows 2000

Les informations contenues dans ce document ont été créées à partir des périphériques d'un


```
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#
```

Configuration du routeur avec MPPE et 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
```

Paramètres et configuration du VPN Windows 2000 (PPTP)

Procédez comme suit :

1. Choisissez **Démarrer > Paramètres > Connexions réseau et accès à distance > Établir une nouvelle connexion.**
2. Lorsque la fenêtre Assistant Connexion réseau s'affiche, choisissez **Type de connexion réseau** et **Connexion à un réseau privé via Internet.**
3. Choisissez **Composer automatiquement pour cette connexion initiale.**
4. Spécifiez une adresse de destination dans le champ Hôte ou Adresse IP, puis cliquez sur **Suivant.**
5. Choisissez **Démarrer > Paramètres > Connexions réseau et accès à distance**, puis sélectionnez la connexion récemment configurée.
6. Après l'apparition de cette fenêtre, choisissez **Propriétés > Sécurité** pour définir l'option correctement.
7. Choisissez **Avancés (paramètres personnalisés)**, choisissez les **Paramètres**, puis sélectionnez le niveau de cryptage approprié (Cryptage des données) et l'authentification (Autoriser ces protocoles).
8. Sous Mise en réseau (type de serveur VPN qui est appelé), choisissez **PPTP** et cliquez sur **OK.**
9. La fenêtre Vérification du nom de l'utilisateur et du mot de passe apparaît.
10. La fenêtre Enregistrement de votre ordinateur sur le réseau apparaît.
11. La fenêtre Propriétés de Connexions apparaît.
12. Ces fenêtres affichent l'état de la connexion.

Vérifiez

Cette section fournit des informations qui vous permettront de vérifier que votre configuration fonctionne correctement.

L'[Outil Interpréteur de sortie](#) (clients [enregistrés](#) uniquement) (OIT) prend en charge certaines

commandes **show**. Utilisez l'OIT pour afficher une analyse de la sortie de la commande **show** .

- **show debug** — Affiche les commandes **debug** actuellement activées pour le dépannage.
- **show user** — Affiche les utilisateurs actuellement connectés et leur état.
- **show ip route connected** — Affiche l'état actuel de la table de routage.
- **show vpdn** — Affiche des informations sur le tunnel L2TP (Protocole de tunnellation de niveau 2) ou L2F (Transfert de couche 2) actif et les identificateurs de message dans un réseau privé virtuel à accès commuté (VPDN).

Voici un exemple de sortie de la commande **show debug**.

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

Voici la sortie du débogage avec le protocole PPTP initial configuré.

```
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 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 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#******

Voici la sortie du débogage avec la configuration MPPE et MS-CHAP requise.

```
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

```

Cette sortie **show user** est générée avant l'activation de MS-CHAP et de MPPE.

```

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

```

Cette sortie **show user** est générée après l'activation de MS-CHAP et de MPPE.

```

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

```

Cette sortie **show ip route connected** est générée avant l'activation de MS-CHAP et de MPPE.

```

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

```

Cette sortie **show vpdn** est générée avant l'activation de MS-CHAP et de MPPE.

```

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

```

Cette sortie **show vpdn** est générée après l'activation de MS-CHAP et de MPPE.

```

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

```

Dépannez

Cette section fournit des informations que vous pouvez utiliser pour dépanner votre configuration.

Dépannage des commandes

Certaines commandes **show** sont prises en charge par l'[Output Interpreter Tool](#) (clients enregistrés uniquement), qui vous permet de voir une analyse de la sortie de la commande show.

Remarque: Référez-vous aux [informations importantes sur les commandes de débogage](#) avant d'utiliser les commandes de débogage.

- **clear vpdn tunnel pptp** — Utilisée pour arrêter un tunnel spécifié et toutes les sessions dans le tunnel et effacer le tunnel PPTP spécifié.

```
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
```

Encryption Mismatch — Sortie de débogage du routeur configuré pour le cryptage renforcé 128 bits lorsque le client VPN est configuré pour le cryptage 40 bits.

```
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

```

Authentication Mismatch — Sortie de débogage du routeur configuré pour MS-CHAP et le client VPN configuré pour 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 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
```

[Informations connexes](#)

- [Configuration de Cisco Secure PIX Firewall pour utiliser PPTP](#)
- [Page de support PPTP](#)
- [Support et documentation techniques - Cisco Systems](#)