

Configuration du client PPPoE sur Cisco 2600 pour une connexion à un équipement CPE DSL non-Cisco

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Introduction

Ce document explique comment prendre en charge un client de protocole point-à-point sur Ethernet (PPPoE) sur des routeurs Cisco IOS® connectés par l'intermédiaire d'une interface Ethernet à un modem DSL ou d'équipement CPE (Customer Premises Equipment) DSL d'un autre constructeur.

Les ISP fournissent souvent à leurs clients un modem DSL qui a une interface Ethernet à connecter au segment d'Ethernets de client, et une interface différente pour la Connectivité de ligne DSL. En pareil cas, le modem DSL agit seulement en tant que passerelle si le CPE n'est pas configurable pour aucune connectivité IP ou fonction améliorée au-dessus de DSL. Ceci limite votre Connectivité à seulement un PC de PPPoE Client. En plus d'un routeur Cisco IOS connecté aux Ethernets du modem DSL, vous pouvez exécuter la caractéristique IOS de PPPoE Client sur le routeur de Cisco. Ceci peut connecter le plusieurs PC sur le segment d'Ethernets connecté au routeur Cisco IOS. Avec l'utilisation du routeur Cisco IOS, vous pouvez améliorer vos Connectivités DSL et toutes les caractéristiques IOS, telles que la Sécurité, le Traduction d'adresses de réseau (NAT) et le protocole DHCP (DHCP) aux hôtes internes.

La caractéristique de PPPoE te permet pour initier une session PPP sur un client connecté par Ethernets traversier simple. La session est transportée au-dessus du lien atmosphère par l'intermédiaire des trames Ethernet-jetées un pont sur encapsulées. Vous pouvez terminer la session à un bureau central d'entreprise de téléphonie locale ou à un point de présence ISP.

Conditions préalables

Conditions requises

Aucune spécification déterminée n'est requise pour ce document.

Composants utilisés

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

- Version de logiciel d'IOS Software CPE de Cisco 827-4V 12.1(1)XB
- Routeur de Cisco 2611 qui exécute une image de Logiciel Cisco IOS version 12.2(2)T1
- Le concentrateur d'accès universel de Cisco 6400 (UAC) ce exécute une image de la version du logiciel Cisco IOS 12.1(5)DC1

Les informations contenues dans ce document ont été créées à partir des périphériques d'un environnement de laboratoire spécifique. Tous les périphériques utilisés dans ce document ont démarré avec une configuration effacée (par défaut). Si votre réseau est opérationnel, assurez-vous que vous comprenez l'effet potentiel de toute commande.

Conventions

For more information on document conventions, refer to the [Cisco Technical Tips Conventions](#).

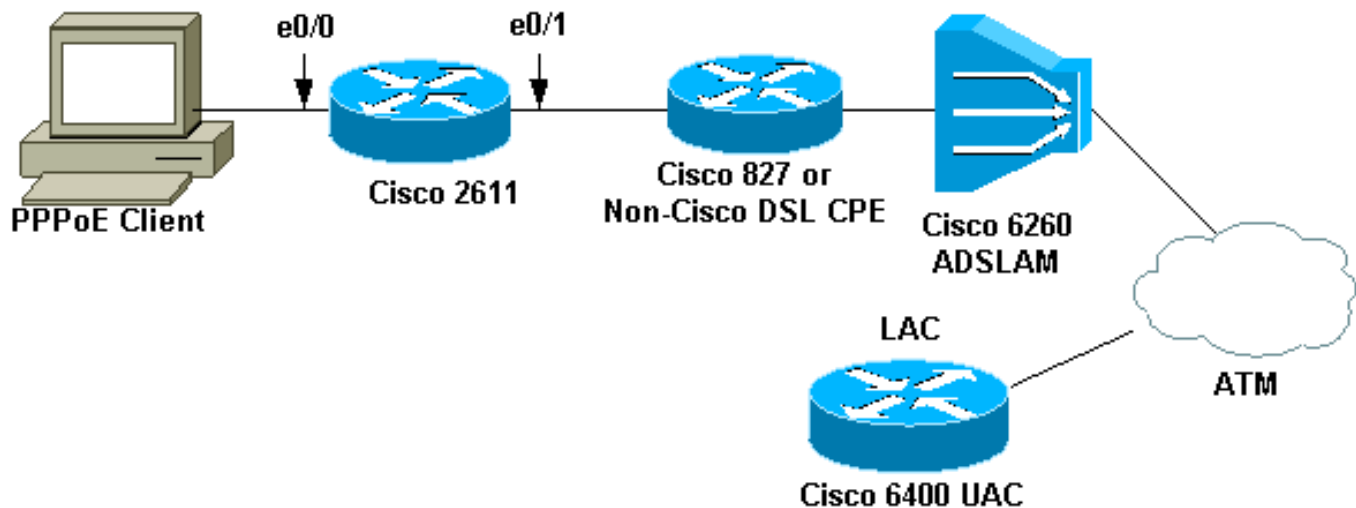
Configurer

Dans cette section, vous êtes présenté avec les informations utilisées afin de configurer les caractéristiques décrites dans ce document.

Remarque: Pour obtenir plus d'informations sur les commandes utilisées dans ce document, utilisez l'[Outil de recherche de commande](#) (clients [enregistrés](#) uniquement).

Diagramme du réseau

Ce document utilise la configuration réseau indiquée dans le diagramme suivant.



Remarque: Dans ce document, la connexion de PPPoE Client est initiée du routeur de Cisco. C'est le routeur de Cisco 2611 dans cette configuration. Le routeur de Cisco 827 dans le diagramme représente la CPE DSL de non-Cisco.

Configurations

Ce document utilise les configurations suivantes.

- [Routeur 2611](#)
- [Routeur de Cisco DSL 827](#)
- [Routeur de Cisco 6400](#)

Routeur 2611

```

!
hostname pooh
ip host rund 172.17.247.195
!
ip subnet-zero
no ip domain-lookup
!
vpdn enable
no vpdn logging
!
vpdn-group 1
request-dialin
protocol pppoe
!
!
!
!
interface Ethernet0/0
ip address 10.200.56.22 255.255.255.0
ip nat inside
no ip mroute-cache
!
!
!
!
interface Ethernet0/1
no ip address

```

```
pppoe enable
pppoe-client dial-pool-number 1
!
interface Dialer1
ip address negotiated
ip nat outside
ip mtu 1492
encapsulation ppp
no ip mroute-cache
dialer pool 1
dialer-group 1
ppp authentication pap
ppp pap sent-username cisco password cisco1
!
ip classless
no ip http server
!
dialer-list 1 protocol ip permit
ip nat inside source list 1 interface Dialer1 overload
ip route 0.0.0.0 0.0.0.0 dialer1
access-list 1 permit 10.200.56.0 0.0.0.255
!
line con 0
exec-timeout 0 0
transport input none
line vty 0 4
login
password ww
!
end
```

Routeur de Cisco DSL 827

```
Building configuration...
Current configuration : 821 bytes
!
version 12.2
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname Chansey
!
!
ip subnet-zero
no ip domain-lookup
!
!
!
interface Ethernet0
no ip address
bridge-group 1
!
interface ATM0
no ip address
no atm ilmi-keepalive
bundle-enable
bridge-group 1
dsl operating-mode auto
!
interface ATM0.1 point-to-point
pvc 53/53
```

```
!--- vpi/vci given by the ISP
!
!
ip classless
ip http server
!
bridge 1 protocol ieee
!
line con 0
  exec-timeout 0 0
  stopbits 1
line vty 0 4
  exec-timeout 0 0
  password ww
  login local
!
scheduler max-task-time 5000
end
```

Routeur de Cisco 6400

```
Current configuration : 3231 bytes
!
version 12.1
no service single-slot-reload-enable
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname alyssa_nrpl
!
logging rate-limit console 10 except errors
aaa new-model
aaa authentication ppp default local
enable password ww
!
username cisco password cisco1
redundancy
main-cpu
auto-sync standard
no secondary console enable
ip subnet-zero
ip cef
vpdn enable
no vpdn logging
!
vpdn-group cisco
accept-dialin
protocol pppoe
virtual-template 2
!
!
!
!
!
!
!
interface Loopback5
ip address 212.93.195.100 255.255.255.0
!
!
interface ATM0/0/0
no ip address
```

```

no ip mroute-cache
load-interval 30
atm pvc 16 0 16 ilmi
no atm ilmi-keepalive
pvc 10/100
!
hold-queue 1000 in
!
interface ATM0/0/0.60 multipoint
pvc 6/60
encapsulation aal5snap
protocol pppoe
!
!
interface Ethernet0/0/1
no ip address
!
interface Ethernet0/0/0
ip address 10.200.56.8 255.255.255.0
!
interface FastEthernet0/0/0
no ip address
full-duplex
!
!
interface Virtual-Template2
ip unnumbered Loopback5
ip mtu 1492
no ip route-cache cef
peer default ip address pool nrp1
ppp authentication pap
!
ip local pool nrp1 212.93.198.1
ip classless
!
!
line con 0
exec-timeout 0 0
password ww
transport input none
line aux 0
line vty 0 4
exec-timeout 0 0
password ww
!
!
end

```

Vérifier

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

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.

- le **show vpdn session** affiche **entièrement les** informations de session VPDN. Ces informations incluent l'interface, le tunnel, le nom d'utilisateur, les paquets, l'état, et les statistiques de fenêtre.

- **affichez les Ethernets 0/1 d'interface** — Affiche des informations au sujet de l'interface Ethernet sur le routeur.
- **affichez le numéroteur 1 d'interfaces** — Affiche des informations au sujet du numéroteur sur le routeur.
- **show ip local pool nrp1** — Affiche des informations au sujet de l'ip local pool.
- **show ip route** — Affiche des informations au sujet de l'artère IP sur le routeur.

C'est le **show vpdn session** toute la sortie de commande sur Cisco 2611.

```
pooh#show vpdn session all
%No active L2TP tunnels
%No active L2F tunnels
%No active PPTP tunnels
PPPoE Session Information Total tunnels 1 sessions 1
session id: 1
!--- Local MAC address. local MAC address: 0030.9424.af21, remote MAC address: 0050.736f.4c37
virtual access interface: Vil, outgoing interface: Et0/1 599 packets sent, 599 received 9202
bytes sent, 8154 received !--- Verify that the outgoing interface for the PPPoE session !--- is
Ethernet0/1 and the local MAC address that displays is the !--- MAC address of Ethernet0/1. The
remote MAC address that displays !--- is the MAC address of the Aggregator device (6400). !---
You can see it on the 6400 as the local MAC address in the !--- show vpdn session on the 6400.
```

C'est l'**Ethernet d'interface d'exposition 0/1** sortie de commande sur Cisco 2611.

```
pooh#show interface ethernet 0/1
Ethernet0/1 is up, line protocol is up
Hardware is AmdP2, address is 0030.9424.af21 (bia 0030.9424.af21
MTU 1500 bytes, BW 10000 Kbit, DLY 1000 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:40, output 00:00:01, output hang never
Last clearing of "show interface" counters never
Queueing strategy: fifo
Output queue 0/40, 0 drops; input queue 0/75, 0 drops
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
739 packets input, 64127 bytes, 0 no buffer
Received 57 broadcasts, 0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 input packets with dribble condition detected
1153 packets output, 89766 bytes, 0 underruns(1/0/0)
0 output errors, 1 collisions, 1 interface resets
0 babbles, 0 late collision, 2 deferred
0 lost carrier, 0 no carrier
0 output buffer failures, 0 output buffers swapped out
```

C'est la sortie de commande du **numéroteur 1 d'interfaces d'exposition** sur Cisco 2611.

```
pooh#show interfaces dialer 1
Dialer1 is up, line protocol is up (spoofing)
Hardware is Unknown
Internet address is 212.93.198.1/32
MTU 1500 bytes, BW 56 Kbit, DLY 20000 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation PPP, loopback not set
```

```

DTR is pulsed for 1 seconds on reset
Interface is bound to Vi1
Last input never, output never, output hang never
Last clearing of "show interface" counters 01:38:43
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: weighted fair
Output queue: 0/1000/64/0 (size/max total/threshold/drops)
Conversations 0/0/16 (active/max active/max total)
Reserved Conversations 0/0 (allocated/max allocated)
Available Bandwidth 42 kilobits/sec
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
403 packets input, 6082 bytes
403 packets output, 6978 bytes
Bound to:
Virtual-Access1 is up, line protocol is up
Hardware is Virtual Access interface
MTU 1500 bytes, BW 100000 Kbit, DLY 100000 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation PPP, loopback not set
Keepalive set (10 sec)
Interface is bound to Di1 (Encapsulation PPP)
LCP Open
Listen: CDPCP
Open: IPCP
Last input 00:00:09, output never, output hang never
Last clearing of "show interface" counters 00:35:16
Queueing strategy: fifo
Output queue 0/40, 0 drops; input queue 0/75, 0 drops
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
430 packets input, 6453 bytes, 0 no buffer
Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
430 packets output, 7400 bytes, 0 underruns
0 output errors, 0 collisions, 0 interface resets
0 output buffer failures, 0 output buffers swapped out
0 carrier transitions

```

C'est le show vpdn session toute la sortie de commande sur le Cisco 6400.

```

alyssa_nrpl#show vpdn session all
%No active L2TP tunnels
%No active L2F tunnels
%No active PPTP tunnels
PPPoE Session Information Total tunnels 1 sessions 1
session id: 1
local MAC address: 0050.736f.4c37, remote MAC address: 0030.9424.af21
virtual access interface: Vi3, outgoing interface: AT0/0/0, vc: 6/60
495 packets sent, 494 received
7369 bytes sent, 7346 received

```

C'est la sortie de commande du show ip local pool nrp1 sur le Cisco 6400.

```

alyssa_nrpl#show ip local pool nrp1
Pool          Begin          End            Free   In use
nrp1          212.93.198.1  212.93.198.1    0      1
Available addresses:
None
Inuse addresses:
212.93.198.1      Vi3                nrp1

```

C'est la sortie de commande de show ip route sur le Cisco 6400.


```
alyssa_nrpl#show ip route
```

```
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
```

```
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
```

```
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
```

```
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
```

```
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
```

```
* - candidate default, U - per-user static route, o - ODR
```

```
P - periodic downloaded static route
```

```
Gateway of last resort is 0.0.0.0 to network 0.0.0.0
```

```
212.93.198.0/32 is subnetted, 1 subnets
```

```
C 212.93.198.1 is directly connected, Virtual-Access3
```

```
!--- You have to see the installed route for the remote PPPoE session. C 212.93.195.0/24 is
```

```
directly connected, Loopback5 10.0.0.0/8 is variably subnetted, 3 subnets, 2 masks C
```

```
10.200.56.0/24 is directly connected, Ethernet0/0/0
```

Dépanner

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: Avant d'émettre des commandes **debug**, reportez-vous aux [Informations importantes sur les commandes de débogage](#).

- **show debugging** — Affiche les informations de débogage sur le routeur.

C'est la sortie de commande de **show debugging** sur Cisco 2611.

```
pooh#show debugging
```

```
PPP:
```

```
PPP protocol negotiation debugging is on
```

```
VPN:
```

```
PPPoE protocol events debugging is on
```

```
PPPoE control packets debugging is on
```

```
01:54:21: Sending PADI: Interface = Ethernet0/1
```

```
01:54:21: pppoe_send_padi:
```

```
FF FF FF FF FF FF 00 30 94 24 AF 21 88 63 11 09
```

```
00 00 00 0C 01 01 00 00 01 03 00 04 82 2E 39 F0
```

```
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...
```

```
01:54:21: PPPoE 0: I PADO L:0030.9424.af21 R:0050.736f.4c37 Et0/1
```

```
00 30 94 24 AF 21 00 50 73 6F 4C 37 88 63 11 07
```

```
00 00 00 2F 01 01 00 00 01 03 00 04 82 2E 39 F0
```

```
01 02 00 0B 61 6C 79 73 73 61 5F 6E 72 70 31 ...
```

```
01:54:23: PPPOE: we've got our pado and the pado timer went off
```

```
01:54:23: OUT PADR from PPPoE tunnel
```

```
00 50 73 6F 4C 37 00 30 94 24 AF 21 88 63 11 19
```

```
00 00 00 2F 01 01 00 00 01 03 00 04 82 2E 39 F0
```

```
01 02 00 0B 61 6C 79 73 73 61 5F 6E 72 70 31 ...
```

```
01:54:23: PPPoE 1: I PADS L:0030.9424.af21 R:0050.736f.4c37 Et0/1
```

```
00 30 94 24 AF 21 00 50 73 6F 4C 37 88 63 11 65
```

```
00 01 00 2F 01 01 00 00 01 03 00 04 82 2E 39 F0
```

```
01 02 00 0B 61 6C 79 73 73 61 5F 6E 72 70 31 ...
```

```
01:54:23: IN PADS from PPPoE tunnel
```

```
01:54:23: V1l Debug: Condition 1, interface Dil triggered, count 1
```

```
01:54:23: %DIALER-6-BIND: Interface V1l bound to profile Dil
```

```

01:54:23: PPPoE: Virtual Access interface obtained.
01:54:23: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up
01:54:23: Vi1 PPP: Treating connection as a callout
01:54:23: Vi1 PPP: Phase is ESTABLISHING, Active Open [0 sess, 0 load]
01:54:23: Vi1 LCP: O CONFREQ [Closed] id 1 len 10
01:54:23: Vi1 LCP:   MagicNumber 0x30FCDE42 (0x050630FCDE42)
01:54:23: Vi1 LCP: I CONFACK [REQsent] id 1 len 10
01:54:23: Vi1 LCP:   MagicNumber 0x30FCDE42 (0x050630FCDE42)
01:54:25: Vi1 LCP: I CONFREQ [ACKrcvd] id 2 len 18
01:54:25: Vi1 LCP:   MRU 1492 (0x010405D4)
01:54:25: Vi1 LCP:   AuthProto PAP (0x0304C023)
01:54:25: Vi1 LCP:   MagicNumber 0x5C799D85 (0x05065C799D85)
01:54:25: Vi1 LCP: O CONFNAK [ACKrcvd] id 2 len 8
01:54:25: Vi1 LCP:   MRU 1500 (0x010405DC)
01:54:25: Vi1 LCP: TIMEOUT: State ACKrcvd
01:54:25: Vi1 LCP: O CONFREQ [ACKrcvd] id 2 len 10
01:54:25: Vi1 LCP:   MagicNumber 0x30FCDE42 (0x050630FCDE42)
01:54:25: Vi1 LCP: I CONFREQ [REQsent] id 3 len 18
01:54:25: Vi1 LCP:   MRU 1500 (0x010405DC)
01:54:25: Vi1 LCP:   AuthProto PAP (0x0304C023)
01:54:25: Vi1 LCP:   MagicNumber 0x5C799D85 (0x05065C799D85)
01:54:25: Vi1 LCP: O CONFACK [REQsent] id 3 len 18
01:54:25: Vi1 LCP:   MRU 1500 (0x010405DC)
01:54:25: Vi1 LCP:   AuthProto PAP (0x0304C023)
01:54:25: Vi1 LCP:   MagicNumber 0x5C799D85 (0x05065C799D85)
01:54:25: Vi1 LCP: I CONFACK [ACKsent] id 2 len 10
01:54:25: Vi1 LCP:   MagicNumber 0x30FCDE42 (0x050630FCDE42)
01:54:25: Vi1 LCP: State is Open
01:54:25: Vi1 PPP: Phase is AUTHENTICATING, by the peer [0 sess, 0 load]
01:54:25: Vi1 PAP: O AUTH-REQ id 4 len 18 from "cisco"
01:54:25: Vi1 PAP: I AUTH-ACK id 4 len 5
01:54:25: Vi1 PPP: Phase is UP [0 sess, 0 load]
01:54:25: Vi1 IPCP: O CONFREQ [Closed] id 1 len 10
01:54:25: Vi1 IPCP:   Address 0.0.0.0 (0x030600000000)
01:54:25: Vi1 CDPCP: O CONFREQ [Closed] id 1 len 4
01:54:25: Vi1 IPCP: I CONFREQ [REQsent] id 1 len 10
01:54:25: Vi1 IPCP:   Address 212.93.195.100 (0x0306D45DC364)
01:54:25: Vi1 IPCP: O CONFACK [REQsent] id 1 len 10
01:54:25: Vi1 IPCP:   Address 212.93.195.100 (0x0306D45DC364)
01:54:25: Vi1 IPCP: I CONFNAK [ACKsent] id 1 len 10
01:54:25: Vi1 IPCP:   Address 212.93.198.1 (0x0306D45DC601)
01:54:25: Vi1 IPCP: O CONFREQ [ACKsent] id 2 len 10
01:54:25: Vi1 IPCP:   Address 212.93.198.1 (0x0306D45DC601)
01:54:25: Vi1 LCP: I PROTREJ [Open] id 4 len 10 protocol CDPCP
(0x820701010004)
01:54:25: Vi1 CDPCP: State is Closed
01:54:25: Vi1 IPCP: I CONFACK [ACKsent] id 2 len 10
01:54:25: Vi1 IPCP:   Address 212.93.198.1 (0x0306D45DC601)
01:54:25: Vi1 IPCP: State is Open
01:54:25: Di1 IPCP: Install negotiated IP interface address 212.93.198.1
01:54:25: Di1 IPCP: Install route to 212.93.195.100
01:54:26: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up

```

C'est la sortie de commande de show debugging sur le Cisco 6400.

```

pooh#show debugging
PPP:
PPP protocol negotiation debugging is on
VPN:
PPPoE protocol events debugging is on
PPPoE control packets debugging is on

```

```
01:54:21: Sending PADI: Interface = Ethernet0/1
01:54:21: pppoe_send_padi:
FF FF FF FF FF FF 00 30 94 24 AF 21 88 63 11 09
00 00 00 0C 01 01 00 00 01 03 00 04 82 2E 39 F0
00 00 00 00 00 00 00 00 00 00 00 00 00 00 ...
01:54:21: PPPoE 0: I PADO L:0030.9424.af21 R:0050.736f.4c37 Et0/1
00 30 94 24 AF 21 00 50 73 6F 4C 37 88 63 11 07
00 00 00 2F 01 01 00 00 01 03 00 04 82 2E 39 F0
01 02 00 0B 61 6C 79 73 73 61 5F 6E 72 70 31 ...
01:54:23: PPPOE: we've got our pado and the pado timer went off
01:54:23: OUT PADR from PPPoE tunnel
00 50 73 6F 4C 37 00 30 94 24 AF 21 88 63 11 19
00 00 00 2F 01 01 00 00 01 03 00 04 82 2E 39 F0
01 02 00 0B 61 6C 79 73 73 61 5F 6E 72 70 31 ...
01:54:23: PPPoE 1: I PADS L:0030.9424.af21 R:0050.736f.4c37 Et0/1
00 30 94 24 AF 21 00 50 73 6F 4C 37 88 63 11 65
00 01 00 2F 01 01 00 00 01 03 00 04 82 2E 39 F0
01 02 00 0B 61 6C 79 73 73 61 5F 6E 72 70 31 ...
01:54:23: IN PADS from PPPoE tunnel
01:54:23: Vi1 Debug: Condition 1, interface Di1 triggered, count 1
01:54:23: %DIALER-6-BIND: Interface Vi1 bound to profile Di1
01:54:23: PPPoE: Virtual Access interface obtained.
01:54:23: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up
01:54:23: Vi1 PPP: Treating connection as a callout
01:54:23: Vi1 PPP: Phase is ESTABLISHING, Active Open [0 sess, 0 load]
01:54:23: Vi1 PPP: No remote authentication for call-out
01:54:23: Vi1 LCP: O CONFREQ [Closed] id 1 len 10
01:54:23: Vi1 LCP: MagicNumber 0x30FCDE42 (0x050630FCDE42)
01:54:23: Vi1 LCP: I CONFACK [REQsent] id 1 len 10
01:54:23: Vi1 LCP: MagicNumber 0x30FCDE42 (0x050630FCDE42)
01:54:25: Vi1 LCP: I CONFREQ [ACKrcvd] id 2 len 18
01:54:25: Vi1 LCP: MRU 1492 (0x010405D4)
01:54:25: Vi1 LCP: AuthProto PAP (0x0304C023)
01:54:25: Vi1 LCP: MagicNumber 0x5C799D85 (0x05065C799D85)
01:54:25: Vi1 LCP: O CONFNAK [ACKrcvd] id 2 len 8
01:54:25: Vi1 LCP: MRU 1500 (0x010405DC)
01:54:25: Vi1 LCP: TIMEOUT: State ACKrcvd
01:54:25: Vi1 LCP: O CONFREQ [ACKrcvd] id 2 len 10
01:54:25: Vi1 LCP: MagicNumber 0x30FCDE42 (0x050630FCDE42)
01:54:25: Vi1 LCP: I CONFREQ [REQsent] id 3 len 18
01:54:25: Vi1 LCP: MRU 1500 (0x010405DC)
01:54:25: Vi1 LCP: AuthProto PAP (0x0304C023)
01:54:25: Vi1 LCP: MagicNumber 0x5C799D85 (0x05065C799D85)
01:54:25: Vi1 LCP: O CONFACK [REQsent] id 3 len 18
01:54:25: Vi1 LCP: MRU 1500 (0x010405DC)
01:54:25: Vi1 LCP: AuthProto PAP (0x0304C023)
01:54:25: Vi1 LCP: MagicNumber 0x5C799D85 (0x05065C799D85)
01:54:25: Vi1 LCP: I CONFACK [ACKsent] id 2 len 10
01:54:25: Vi1 LCP: MagicNumber 0x30FCDE42 (0x050630FCDE42)
01:54:25: Vi1 LCP: State is Open
01:54:25: Vi1 PPP: Phase is AUTHENTICATING, by the peer [0 sess, 0 load]
01:54:25: Vi1 PAP: O AUTH-REQ id 4 len 18 from "cisco"
01:54:25: Vi1 PAP: I AUTH-ACK id 4 len 5
01:54:25: Vi1 PPP: Phase is UP [0 sess, 0 load]
01:54:25: Vi1 IPCP: O CONFREQ [Closed] id 1 len 10
01:54:25: Vi1 IPCP: Address 0.0.0.0 (0x030600000000)
01:54:25: Vi1 CDPCP: O CONFREQ [Closed] id 1 len 4
01:54:25: Vi1 IPCP: I CONFREQ [REQsent] id 1 len 10
01:54:25: Vi1 IPCP: Address 212.93.195.100 (0x0306D45DC364)
01:54:25: Vi1 IPCP: O CONFACK [REQsent] id 1 len 10
01:54:25: Vi1 IPCP: Address 212.93.195.100 (0x0306D45DC364)
01:54:25: Vi1 IPCP: I CONFNAK [ACKsent] id 1 len 10
01:54:25: Vi1 IPCP: Address 212.93.198.1 (0x0306D45DC601)
01:54:25: Vi1 IPCP: O CONFREQ [ACKsent] id 2 len 10
```

```
01:54:25: Vi1 IPCP:      Address 212.93.198.1 (0x0306D45DC601)
01:54:25: Vi1 LCP: I PROTREJ [Open] id 4 len 10 protocol CDPCP
(0x820701010004)
01:54:25: Vi1 CDPCP: State is Closed
01:54:25: Vi1 IPCP: I CONFACK [ACKsent] id 2 len 10
01:54:25: Vi1 IPCP:      Address 212.93.198.1 (0x0306D45DC601)
01:54:25: Vi1 IPCP: State is Open
01:54:25: Di1 IPCP: Install negotiated IP interface address 212.93.198.1
01:54:25: Di1 IPCP: Install route to 212.93.195.100
01:54:26: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up
```

Informations connexes

- [Configuration du routeur Cisco 827](#)
- [Les informations de support de technologie DSL de Cisco](#)
- [Support technique - Cisco Systems](#)