Configuración del cliente PPPoE en Cisco 2600 para conexión con un CPE DSL de terceros

Contenido

Introducción

Este documento explica cómo soportar un cliente PPPoE (Point-to-Point Protocol over Ethernet) en los routers Cisco IOS® conectados a través de una Interfaz Ethernet a un módem DSL o el equipo DSL en las instalaciones del cliente (CPE) de otro proveedor.

Los ISP proporcionan a menudo a sus clientes con un módem DLS que tenga una interfaz de Ethernet a conectar con el segmento Ethernet del cliente, y otra interfaz para la conectividad de línea DSL. En tal caso, el módem DLS actúa solamente como Bridge si el CPE no es configurable para ninguna conectividad del IP o características mejoradas sobre el DSL. Esto limita su conectividad a una sola PC Cliente PPPoE. Con la adición de un router del Cisco IOS conectado con los Ethernetes del módem DLS, usted puede funcionar con la característica IOS del Cliente de PPPoE en el router Cisco. Esto puede conectar los PC múltiples en el segmento Ethernet conectado con el router del Cisco IOS. Con el uso del Cisco IOS router, usted puede aumentar sus conectividades por DSL y todas las características IOS, tales como Seguridad, Network Address Translation (NAT) y Protocolo de configuración dinámica de host (DHCP) a los host internos.

La característica PPPoE le permite iniciar una sesión PPP con un cliente conectado con una conexión en puente Ethernet simple. La sesión es transportada por medio del link ATM por tramas encapsuladas con puentes Ethernet. Usted puede terminar la sesión en una oficina central de la central local o un Point of Presence ISP.

prerrequisitos

Requisitos

No hay requisitos específicos para este documento.

Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- Versión de software IOS 12.1(1)XB del CPE del Cisco 827-4V
- Cisco 2611 Router que funciona con una imagen del Cisco IOS Software Release 12.2(2)T1
- Concentrador de acceso universal (UAC) del Cisco 6400 que funciona con una imagen del Cisco IOS Software Release 12.1(5)DC1

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

Convenciones

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

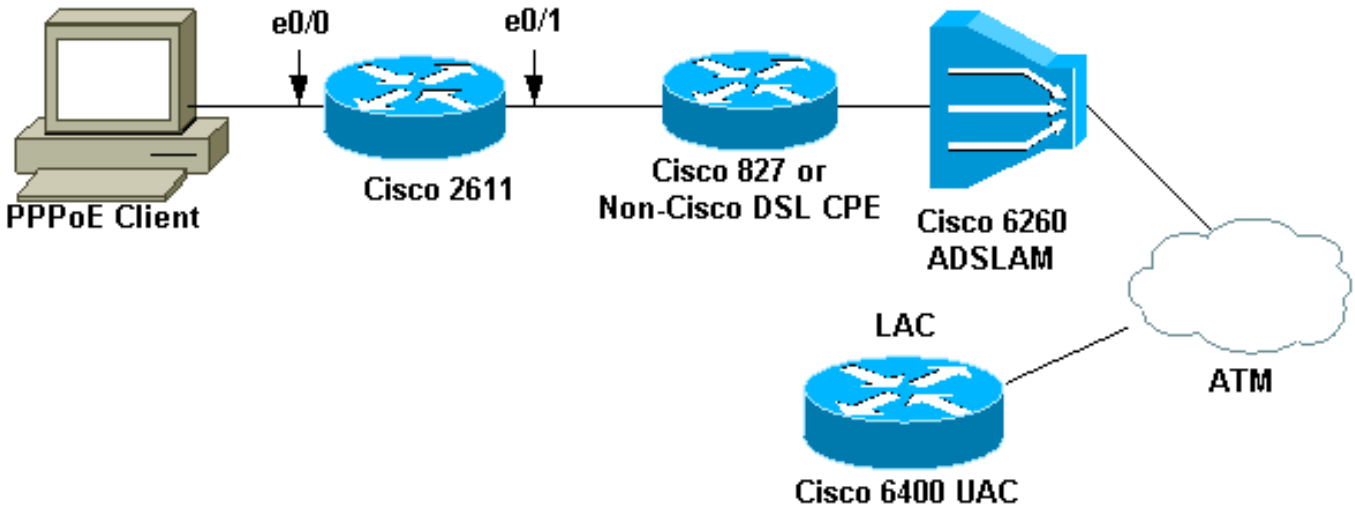
Configurar

En esta sección, le presentan con la información usada para configurar las características descritas en este documento.

Nota: Para encontrar la información adicional en los comandos usados en este documento, use la Command Lookup Tool (clientes registrados solamente).

Diagrama de la red

Este documento utiliza la configuración de red que se muestra en el siguiente diagrama.



Nota: En este documento, la conexión del Cliente de PPPoE se inicia del router Cisco. Éste es el

router Cisco 2611 en esta configuración. El router Cisco 827 en el diagrama representa el equipo DSL en las instalaciones del cliente que no es de Cisco.

Configuraciones

Este documento usa estas configuraciones.

- Router 2611
- Router Cisco DSL 827
- Router Cisco 6400

Router 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
```

Router 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
```

Router 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_nrp1
!
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
```

Verificación

Esta sección proporciona información que puede utilizar para confirmar que su configuración funciona correctamente.

La herramienta Output Interpreter (sólo para clientes registrados) permite utilizar algunos comandos “show” y ver un análisis del resultado de estos comandos.

- **muestre la sesión toda del vpdn** — Información de sesión de VPDN de las visualizaciones. Esta información incluye la interfaz, el túnel, el nombre de usuario, los paquetes, el estatus, y las estadísticas de la ventana.
- **muestre las interfaces Ethernet 0/1** — Visualiza la información sobre la interfaz de Ethernet en el router.
- **show interfaces dialer 1** — Visualiza la información sobre el marcador en el router.
- show ip local pool nrp1 – Muestra información sobre la agrupación IP local.
- **ruta de IP de la demostración** — Visualiza la información sobre la ruta de IP en el router.

Éste es el **comando show vpdn session all** hecho salir en el 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: Vi1, 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.
```

Éste es el **comando show interface ethernet 0/1** hecho salir en el 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
```

Éste es el **comando show interfaces dialer 1** hecho salir en el 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
```

Éste es el **comando show vpdn session all** hecho salir en el Cisco 6400.

```
alyssa_nrp1#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
```

Éste es el **comando show ip local pool nrp1** hecho salir en el Cisco 6400.

```
alyssa_nrp1#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
```

Éste es el **comando show ip route** hecho salir en el Cisco 6400.

```
alyssa_nrp1#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
```

Troubleshooting

En esta sección encontrará información que puede utilizar para solucionar problemas de

configuración.

Comandos para resolución de problemas

La herramienta Output Interpreter (sólo para clientes registrados) permite utilizar algunos comandos “show” y ver un análisis del resultado de estos comandos.

Nota: Antes de ejecutar un comando de depuración, consulte Información importante sobre comandos de depuración.

- **debugging de la demostración** — Visualiza la información de debugging en el router.

Éste es el **comando show debugging** hecho salir en el 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 ...
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
```

Éste es el **comando show debugging** hecho salir en el Cisco 6400.

```
*Aug 16 15:58:51.346: PPPoE: IN PADI discovery packet
*Aug 16 15:58:51.346:   PPPoE: LMAC:ffff.ffff.ffff RMAC:0030.9424.af21 6/60
AT0/0/0.60
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 ...
*Aug 16 15:58:51.346: PPPoE: PADO OUT from PPPoE tunnel
*Aug 16 15:58:51.346:   PPPoE: LMAC:0050.736f.4c37 RMAC:0030.9424.af21 6/60
AT0/0/0.60
00 05 09 00 AA AA 03 00 80 C2 00 07 00 00 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 ...
*Aug 16 15:58:53.390: PPPoE: IN PADR discovery packet
*Aug 16 15:58:53.390:   PPPoE: LMAC:0050.736f.4c37 RMAC:0030.9424.af21 6/60
AT0/0/0.60
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 ...
*Aug 16 15:58:53.394: Vi3 PPP: Phase is DOWN, Setup [0 sess, 0 load]
*Aug 16 15:58:53.418: PPPoE: Create session: 1
*Aug 16 15:58:53.418: PPPoE:  1: Created
*Aug 16 15:58:53.418:   PPPoE: LMAC:0050.736f.4c37 RMAC:0030.9424.af21 6/60
AT0/0/0.60
*Aug 16 15:58:53.418: PPPoE: PADS OUT from PPPoE tunnel
*Aug 16 15:58:53.418:   PPPoE: LMAC:0050.736f.4c37 RMAC:0030.9424.af21 6/60
```

```
AT0/0/0.60
00 05 09 00 AA AA 03 00 80 C2 00 07 00 00 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 ...
2d08h: %LINK-3-UPDOWN: Interface Virtual-Access3, changed state to up
*Aug 16 15:58:53.426: Vi3 PPP: Treating connection as a dedicated line
*Aug 16 15:58:53.426: Vi3 PPP: Phase is ESTABLISHING, Active Open [0 sess,
0 load]
*Aug 16 15:58:53.426: Vi3 LCP: O CONFREQ [Closed] id 1 len 18
*Aug 16 15:58:53.426: Vi3 LCP:    MRU 1492 (0x010405D4)
*Aug 16 15:58:53.426: Vi3 LCP:    AuthProto PAP (0x0304C023)
*Aug 16 15:58:53.426: Vi3 LCP:    MagicNumber 0x5C7E3144 (0x05065C7E3144)
*Aug 16 15:58:53.466: Vi3 LCP: I CONFREQ [REQsent] id 1 len 10
*Aug 16 15:58:53.466: Vi3 LCP:    MagicNumber 0x31017223 (0x050631017223)
*Aug 16 15:58:53.466: Vi3 LCP: O CONFACK [REQsent] id 1 len 10
*Aug 16 15:58:53.466: Vi3 LCP:    MagicNumber 0x31017223 (0x050631017223)
*Aug 16 15:58:53.470: Vi3 LCP: I CONFNAK [ACKsent] id 1 len 8
*Aug 16 15:58:53.470: Vi3 LCP:    MRU 1500 (0x010405DC)
*Aug 16 15:58:53.470: Vi3 LCP: O CONFREQ [ACKsent] id 2 len 18
*Aug 16 15:58:53.470: Vi3 LCP:    MRU 1500 (0x010405DC)
*Aug 16 15:58:53.470: Vi3 LCP:    AuthProto PAP (0x0304C023)
*Aug 16 15:58:53.470: Vi3 LCP:    MagicNumber 0x5C7E3144 (0x05065C7E3144)
*Aug 16 15:58:53.510: Vi3 LCP: I CONFACK [ACKsent] id 2 len 18
*Aug 16 15:58:53.510: Vi3 LCP:    MRU 1500 (0x010405DC)
*Aug 16 15:58:53.510: Vi3 LCP:    AuthProto PAP (0x0304C023)
*Aug 16 15:58:53.510: Vi3 LCP:    MagicNumber 0x5C7E3144 (0x05065C7E3144)
*Aug 16 15:58:53.510: Vi3 LCP: State is Open
*Aug 16 15:58:53.510: Vi3 PPP: Phase is AUTHENTICATING, by this end [0
sess, 0 load]
*Aug 16 15:58:53.514: Vi3 PAP: I AUTH-REQ id 5 len 18 from "cisco"
*Aug 16 15:58:53.514: Vi3 PPP: Phase is FORWARDING [0 sess, 0 load]
*Aug 16 15:58:53.514: Vi3 PPP: Phase is AUTHENTICATING [0 sess, 0 load]
*Aug 16 15:58:53.514: Vi3 PAP: Authenticating peer cisco
*Aug 16 15:58:53.514: Vi3 PAP: O AUTH-ACK id 5 len 5
*Aug 16 15:58:53.514: Vi3 PPP: Phase is UP [0 sess, 0 load]
*Aug 16 15:58:53.514: Vi3 IPCP: O CONFREQ [Closed] id 1 len 10
*Aug 16 15:58:53.514: Vi3 IPCP:    Address 212.93.195.100 (0x0306D45DC364)
*Aug 16 15:58:53.574: Vi3 IPCP: I CONFREQ [REQsent] id 1 len 10
*Aug 16 15:58:53.574: Vi3 IPCP:    Address 0.0.0.0 (0x030600000000)
*Aug 16 15:58:53.574: Vi3 IPCP: Pool returned 212.93.198.1
*Aug 16 15:58:53.574: Vi3 IPCP: O CONFNAK [REQsent] id 1 len 10
*Aug 16 15:58:53.574: Vi3 IPCP:    Address 212.93.198.1 (0x0306D45DC601)
*Aug 16 15:58:53.574: Vi3 CDPCP: I CONFREQ [Not negotiated] id 1 len 4
*Aug 16 15:58:53.574: Vi3 LCP: O PROTREJ [Open] id 3 len 10 protocol CDPCP
(0x820701010004)
*Aug 16 15:58:53.574: Vi3 IPCP: I CONFACK [REQsent] id 1 len 10
*Aug 16 15:58:53.574: Vi3 IPCP:    Address 212.93.195.100 (0x0306D45DC364)
*Aug 16 15:58:53.618: Vi3 IPCP: I CONFREQ [ACKrcvd] id 2 len 10
*Aug 16 15:58:53.618: Vi3 IPCP:    Address 212.93.198.1 (0x0306D45DC601)
*Aug 16 15:58:53.618: Vi3 IPCP: O CONFACK [ACKrcvd] id 2 len 10
*Aug 16 15:58:53.618: Vi3 IPCP:    Address 212.93.198.1 (0x0306D45DC601)
*Aug 16 15:58:53.618: Vi3 IPCP: State is Open
*Aug 16 15:58:53.622: Vi3 IPCP: Install route to 212.93.198.1
2d08h: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access3,
changed state to up
```

Información Relacionada

- Configuración del router 827 de Cisco
- Información de soporte de tecnología DSL de Cisco
- Soporte Técnico - Cisco Systems