Configurazione del client PPPoE su Cisco 2600 per la connessione a un CPE DSL non Cisco

Sommario

Introduzione Prerequisiti Requisiti Componenti usati Convenzioni Configurazione Esempio di rete Configurazioni Verifica Risoluzione dei problemi Comandi per la risoluzione dei problemi Informazioni correlate

Introduzione

Questo documento spiega come supportare un client PPPoE (Point-to-Point Protocol over Ethernet) su router Cisco IOS® connessi tramite un'interfaccia Ethernet a un modem DSL o alle apparecchiature DSL della sede del cliente (CPE) di un altro fornitore.

Gli ISP spesso forniscono ai clienti un modem DSL dotato di un'interfaccia Ethernet per il collegamento al segmento Ethernet del cliente e di un'altra interfaccia per la connettività della linea DSL. In questo caso, il modem DSL funge da bridge solo se il CPE non è configurabile per alcuna connettività IP o funzionalità avanzate tramite DSL. Ciò limita la connettività a un solo PC client PPPoE. Con l'aggiunta di un router Cisco IOS connesso all'interfaccia Ethernet del modem DSL, è possibile eseguire la funzione PPPoE Client IOS sul router Cisco. In questo modo è possibile connettere più PC sul segmento Ethernet collegato al router Cisco IOS. Con l'uso del router Cisco IOS, è possibile migliorare le connettività DSL e tutte le funzionalità di IOS, ad esempio la sicurezza, NAT (Network Address Translation) e DHCP (Dynamic Host Configuration Protocol), per gli host interni.

La funzionalità PPPoE consente di avviare una sessione PPP su un client Ethernet di bridging semplice. La sessione viene trasportata sul collegamento ATM tramite frame Ethernet con bridge incapsulati. È possibile terminare la sessione presso un ufficio centrale del vettore di scambio locale o presso un punto di presenza dell'ISP.

Prerequisiti

Requisiti

Nessun requisito specifico previsto per questo documento.

Componenti usati

Le informazioni fornite in questo documento si basano sulle seguenti versioni software e hardware:

- Software Cisco 827-4V CPE IOS release 12.1(1)XB
- Router Cisco 2611 con software Cisco IOS versione 12.2(2)T1
- Cisco 6400 Universal Access Concentrator (UAC) con software Cisco IOS versione 12.1(5)DC1 image

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

<u>Convenzioni</u>

Per ulteriori informazioni sulle convenzioni usate, consultare il documento <u>Cisco sulle convenzioni</u> <u>nei suggerimenti tecnici</u>.

Configurazione

In questa sezione vengono presentate le informazioni necessarie per configurare le funzionalità descritte più avanti nel documento.

Nota: per ulteriori informazioni sui comandi menzionati in questo documento, usare lo <u>strumento di</u> ricerca dei comandi (solo utenti registrati).

Esempio di rete

Nel documento viene usata l'impostazione di rete mostrata nel diagramma.



Nota: in questo documento, la connessione del client PPPoE viene avviata dal router Cisco. Questo è il router Cisco 2611 in questa configurazione. Il router Cisco 827 nel diagramma rappresenta il CPE DSL non Cisco.

Configurazioni

Nel documento vengono usate queste configurazioni.

- 2611 Router
- <u>Cisco DSL 827 Router</u>
- <u>Cisco 6400 Router</u>

2611 Router

```
!
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
!
!
1
1
interface Ethernet0/0
ip address 10.200.56.22 255.255.255.0
ip nat inside
no ip mroute-cache
!
!
1
!
interface Ethernet0/1
no ip address
pppoe enable
pppoe-client dial-pool-number 1
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 ciscol
1
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
Cisco DSL 827 Router
Building configuration...
Current configuration : 821 bytes
!
version 12.2
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
1
hostname Chansey
!
!
ip subnet-zero
no ip domain-lookup
!
!
1
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
1
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
Cisco 6400 Router
```

```
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 ciscol
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
!
1
!
!
1
1
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
1
hold-queue 1000 in
!
interface ATM0/0/0.60 multipoint
pvc 6/60
encapsulation aal5snap
protocol pppoe
!
1
interface Ethernet0/0/1
no ip address
1
interface Ethernet0/0/0
ip address 10.200.56.8 255.255.255.0
1
interface FastEthernet0/0/0
no ip address
```

```
full-duplex
1
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
1
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
1
!
end
```

Verifica

Le informazioni contenute in questa sezione permettono di verificare che la configurazione funzioni correttamente.

Alcuni comandi **show sono supportati dallo** <u>strumento Output Interpreter (solo utenti</u> <u>registrati); lo</u> <u>strumento permette di visualizzare un'analisi dell'output del comando</u> **show.**

- **show vpdn session all**: visualizza le informazioni sulla sessione VPDN. Queste informazioni includono le statistiche relative a interfaccia, tunnel, nome utente, pacchetti, stato e finestra.
- show interface ethernet 0/1: visualizza le informazioni sull'interfaccia Ethernet sul router.
- show interfaces dialer 1: visualizza le informazioni sulla dialer sul router.
- show ip local pool nrp1: visualizza le informazioni sul pool locale ip.
- show ip route: visualizza le informazioni sul router IP.

Questo è l'output del comando show vpdn session all su 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.
```

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 Questo è l'output del comando show interfaces dialer 1 su 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 Vil 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

Questo è l'output del comando show vpdn session all su 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

Questo è l'output del comando show ip local pool nrp1 su 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 Questo è l'output del comando show ip route su 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
```

Risoluzione dei problemi

Le informazioni contenute in questa sezione permettono di risolvere i problemi relativi alla configurazione.

Comandi per la risoluzione dei problemi

Alcuni comandi show sono supportati dallo strumento Output Interpreter (solo utenti registrati); lo strumento permette di visualizzare un'analisi dell'output del comando show.

Nota: prima di usare i comandi di debug, consultare le <u>informazioni importanti sui comandi di</u> debug.

• show debugging: visualizza le informazioni di debug sul router.

Questo è l'output del comando show debugging su 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 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: Vil Debug: Condition 1, interface Dil triggered, count 1 01:54:23: %DIALER-6-BIND: Interface Vil 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: Vil PPP: Treating connection as a callout 01:54:23: Vil PPP: Phase is ESTABLISHING, Active Open [0 sess, 0 load] 01:54:23: Vil PPP: No remote authentication for call-out 01:54:23: Vil LCP: O CONFREQ [Closed] id 1 len 10 01:54:23: Vil LCP: MagicNumber 0x30FCDE42 (0x050630FCDE42) 01:54:23: Vil LCP: I CONFACK [REQsent] id 1 len 10 01:54:23: Vil LCP: MagicNumber 0x30FCDE42 (0x050630FCDE42) 01:54:25: Vil LCP: I CONFREQ [ACKrcvd] id 2 len 18 01:54:25: Vil LCP: MRU 1492 (0x010405D4) 01:54:25: Vi1 LCP: AuthProto PAP (0x0304C023) 01:54:25: Vil LCP: MagicNumber 0x5C799D85 (0x05065C799D85) 01:54:25: Vil LCP: O CONFNAK [ACKrcvd] id 2 len 8 01:54:25: Vil LCP: MRU 1500 (0x010405DC) 01:54:25: Vil LCP: TIMEout: State ACKrcvd 01:54:25: Vi1 LCP: O CONFREQ [ACKrcvd] id 2 len 10 01:54:25: Vil LCP: MagicNumber 0x30FCDE42 (0x050630FCDE42) 01:54:25: Vil LCP: I CONFREQ [REQsent] id 3 len 18 01:54:25: Vil LCP: MRU 1500 (0x010405DC) 01:54:25: Vil LCP: AuthProto PAP (0x0304C023) 01:54:25: Vil LCP: MagicNumber 0x5C799D85 (0x05065C799D85) 01:54:25: Vil LCP: O CONFACK [REQsent] id 3 len 18 01:54:25: Vil LCP: MRU 1500 (0x010405DC)

```
AuthProto PAP (0x0304C023)
01:54:25: Vil LCP:
01:54:25: Vil LCP:
                    MagicNumber 0x5C799D85 (0x05065C799D85)
01:54:25: Vil LCP: I CONFACK [ACKsent] id 2 len 10
01:54:25: Vil LCP: MagicNumber 0x30FCDE42 (0x050630FCDE42)
01:54:25: Vil LCP: State is Open
01:54:25: Vil PPP: Phase is AUTHENTICATING, by the peer [0 sess, 0 load]
01:54:25: Vil 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: Vil PPP: Phase is UP [0 sess, 0 load]
01:54:25: Vil IPCP: O CONFREQ [Closed] id 1 len 10
01:54:25: Vil IPCP: Address 0.0.0.0 (0x03060000000)
01:54:25: Vi1 CDPCP: O CONFREQ [Closed] id 1 len 4
01:54:25: Vil IPCP: I CONFREQ [REQsent] id 1 len 10
01:54:25: Vil IPCP: Address 212.93.195.100 (0x0306D45DC364)
01:54:25: Vil IPCP: O CONFACK [REQsent] id 1 len 10
01:54:25: Vil IPCP: Address 212.93.195.100 (0x0306D45DC364)
01:54:25: Vil IPCP: I CONFNAK [ACKsent] id 1 len 10
01:54:25: Vil IPCP: Address 212.93.198.1 (0x0306D45DC601)
01:54:25: Vil IPCP: O CONFREQ [ACKsent] id 2 len 10
01:54:25: Vil IPCP: Address 212.93.198.1 (0x0306D45DC601)
01:54:25: Vil LCP: I PROTREJ [Open] id 4 len 10 protocol CDPCP
(0x820701010004)
01:54:25: Vil CDPCP: State is Closed
01:54:25: Vil IPCP: I CONFACK [ACKsent] id 2 len 10
01:54:25: Vil IPCP: Address 212.93.198.1 (0x0306D45DC601)
01:54:25: Vil IPCP: State is Open
01:54:25: Dil IPCP: Install negotiated IP interface address 212.93.198.1
01:54:25: Dil IPCP: Install route to 212.93.195.100
01:54:26: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up
```

Questo è l'output del comando **show debug** su Cisco 6400.

*Aug 16 15:58:51.346: PPPoE: IN PADI discovery packet *Aug 16 15:58:51.346: PPPoE: LMAC: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 *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 (0x03060000000) *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

Informazioni correlate

- Configurazione del router Cisco 827
- Informazioni di supporto sulla tecnologia Cisco DSL
- <u>Supporto tecnico Cisco Systems</u>