

Настройка компьютера в качестве клиента PPPoE для подключения к двум ISP с помощью 6400 UAC

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Введение

Этот документ описывает, как использовать клиентское программное обеспечение Протокола PPPoE для соединения ПК с двумя другими интернет-провайдерами (интернет-провайдеры), которые используют другие имена пользователей:

- asier@madrid.com (пароль "пароль") для соединения с madrid.com интернет-провайдером
- asier@barcelona.com (пароль "пароль") для соединения с barcelona.com интернет-провайдером

Предварительные условия

Требования

Для этого документа отсутствуют особые требования.

Используемые компоненты

Настоящий документ не имеет жесткой привязки к каким-либо конкретным версиям программного обеспечения и оборудования.

Условные обозначения

[Дополнительные сведения об условных обозначениях см. в документе Условные обозначения технических терминов Cisco.](#)

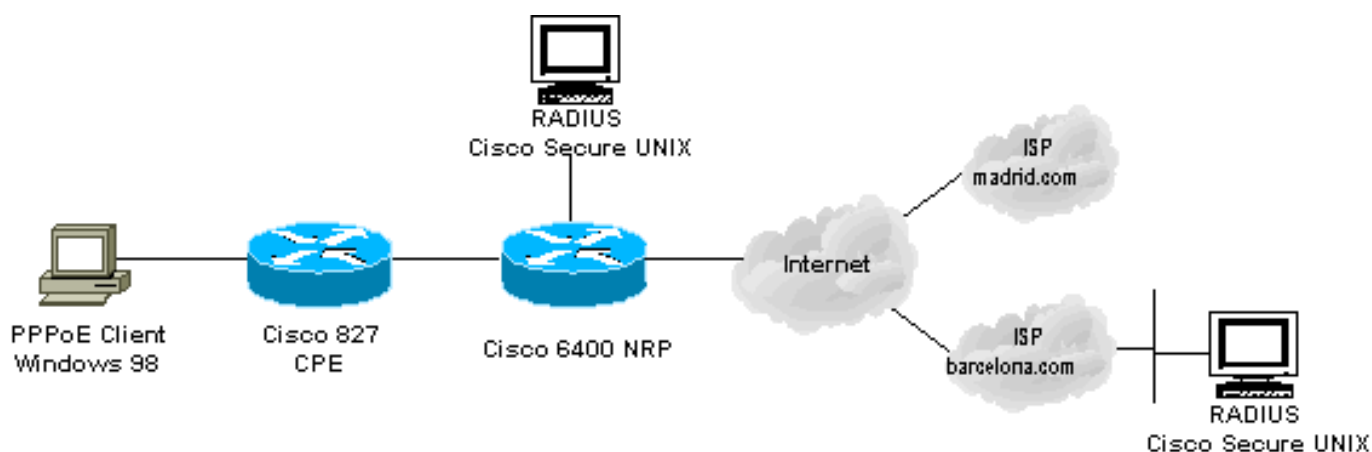
Настройка

В этом разделе содержатся сведения о настройке функций, описанных в этом документе.

Примечание: [Используйте инструмент Command Lookup \(только для зарегистрированных пользователей\) для того, чтобы получить более подробную информацию о командах, использованных в этом разделе.](#)

Схема сети

В настоящем документе используется следующая схема сети:



Конфигурации

Примечание: В конфигурации Cisco NRP серии 6400 вы устанавливаете максимальный размер передаваемого блока данных (MTU). См. [Устранение проблем Максимального размера передаваемого блока данных в Возможности внешнего подключения по телефонной линии PPPoE](#) для получения дополнительной информации о том, как изменить максимальный размер передаваемого блока данных.

CPE Cisco 827

```
no ip routing
!
!
interface Ethernet0
 no ip address
 no ip directed-broadcast
 bridge-group 1
!
interface ATM0
 no ip address
 no ip directed-broadcast
 no atm ilmi-keepalive
 pvc 3/33
!
```

```
encapsulation aal5snap
!  
bridge-group 1  
!  
bridge 1 protocol ieee  
!
```

Cisco 6400 NRP

```
aaa new-model  
aaa authentication login default none  
aaa authentication ppp default group radius local  
aaa authorization network default group radius  
!  
ip cef  
!  
vpdn enable  
vpdn search-order domain  
!  
vpdn-group 1  
accept-dialin  
protocol pppoe  
virtual-template 1  
pppoe limit per-mac 4  
pppoe limit per-vc 4  
!  
vc-class atm BridgedUsers  
protocol pppoe  
ubr 10000 10000  
encapsulation aal5snap  
!  
interface ATM0/0/0.333 point-to-point  
pvc 3/33  
class-vc BridgedUsers  
ubr 400  
!  
interface Virtual-Templat1  
description USED FOR PPPoE  
ip unnumbered FastEthernet0/0/0  
ip mtu 1492  
ip mroute-cache  
load-interval 30  
no peer default ip address  
ppp authentication pap  
!  
radius-server host 10.200.56.16 auth-port 1645 acct-port  
1646 key cisco  
radius-server retransmit 3  
radius-server attribute nas-port format d  
radius-server key cisco  
!
```

Пользователь соединится с interface ATM 0/0/0.333. Поскольку этот интерфейс связан с vc-class BridgedUsers, он использует PPPoE. Для пользователей PPPoE необходимо применить Virtual-Template 1 согласно vpdn-group 1.

Для аутентификации пользователя (ppp authentication pap) перейдите к серверу RADIUS, который передаст информацию для создания туннеля или к barcelona.com или к madrid.com.

Cisco Secure UNIX: madrid.com

```
root@canonball[/opt/csecure/CLI] ./ViewProfile -p 9900 -u  
madrid.com
```

```
User Profile Information
user = madrid.com{
profile_id = 70
profile_cycle = 12
radius=SSG-6400 {
check_items= {
2=password
}
reply_attributes= {
9,1="vpdn:tunnel-id=MADRID"
9,1="vpdn:tunnel-type=l2tp"
9,1="vpdn:ip-addresses=10.200.56.9"
9,1="vpdn:l2tp-tunnel-password=password"
}
}
}
```

Cisco Secure UNIX: barcelona.com

```
root@canonball[/opt/csecure/CLI]./ViewProfile -p 9900 -u
barcelona.com
User Profile Information
user = barcelona.com{
profile_id = 71
profile_cycle = 13
radius=SSG-6400 {
check_items= {
2=password
}
reply_attributes= {
9,1="vpdn:tunnel-id=BARCELONA"
9,1="vpdn:tunnel-type=l2tp"
9,1="vpdn:ip-addresses=10.200.56.8"
9,1="vpdn:l2tp-tunnel-password=password"
}
}
}
```

madrid.com интернет-провайдер аутентифицируется локально. Необходимо передать клиенту IP-адрес и IP-адреса для серверов DNS.

Интернет-провайдер madrid.com

```
ip name-server 144.254.6.135
ip name-server 144.254.6.143
!
username asier@madrid.com password 0 password
!
vpdn-group MADRID
accept-dialin
protocol l2tp
virtual-template 1
terminate-from hostname MADRID
local name TO-MADRID
l2tp tunnel password 0 password
!
!
interface Virtual-Templat1
description USED FOR PPPoA
ip unnumbered FastEthernet0/0/0
no ip route-cache cef
load-interval 30
```

```
peer default ip address pool MADRID
no ppp lcp fast-start
ppp authentication pap
!
ip local pool MADRID 31.0.0.1
!
```

При использовании `barcelona.com` маршрутизатор получит IP-адрес от сервера RADIUS и передаст его к PPPoE-клиенту.

Интернет-провайдер barcelona.com

```
aaa new-model
aaa authentication login default none
aaa authentication ppp default group radius local
aaa authorization network default group radius
!
!
vpdn-group BARCELONA
accept-dialin
protocol l2tp
virtual-template 2
terminate-from hostname BARCELONA
local name TO-BARCELONA
l2tp tunnel password 7 070C285F4D06
!
!
interface Virtual-Template2
ip unnumbered FastEthernet0/0/0
no ip route-cache cef
load-interval 30
no peer default ip address
no ppp lcp fast-start
ppp authentication pap
!
radius-server host 10.200.56.16 auth-port 1645 acct-port
1646 key cisco
radius-server retransmit 3
radius-server attribute nas-port format d
radius-server key cisco
```

Барселонский сервер RADIUS

```
root@barcelona-radius[/opt/csecure/CLI] ./ViewProfile -p
9900
-u asier@barcelona.com
!--- This output should be on one line on the screen.

User Profile Information
user = asier@barcelona.com{
profile_id = 69
profile_cycle = 8
radius=SSG-6400 {
check_items= {
2=password
}
reply_attributes= {
6=2
7=1
8=452984833
9=4294967295
}
}
```

```
}  
root@barcelona-radius[/opt/csecure/CLI]
```

Пример результата отладки

[Средство Output Interpreter \(OIT\)](#) (только для зарегистрированных клиентов) поддерживает [определенные команды show](#). **Посредством OIT можно анализировать выходные данные команд show.**

Примечание: [Прежде чем выполнять какие-либо команды отладки, ознакомьтесь с документом "Важные сведения о командах отладки"](#).

Отладка Соединения с madrid.com: Отладка на 6400 NRP

```
6400_nrpl#show debug  
General OS:  
  AAA Authentication debugging is on  
  AAA Authorization debugging is on  
VPN:  
  L2X protocol events debugging is on  
Radius protocol debugging is on  
6400_nrpl#  
6400_nrpl#  
00:54:54: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up  
00:54:54: Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially  
00:54:56: AAA: parse name=Virtual-Access1 idb type=21 tty=-1  
00:54:56: AAA: name=Virtual-Access1 flags=0x11 type=7 shelf=0 slot=0 adapter=0  
port=1 channel=0  
00:54:56: AAA/MEMORY: create_user (0x61561D74) user='madrid.com' ruser=''  
port='Virtual-Access1' rem_addr='' authen_type=NONE service=LOGIN priv=0  
00:54:56: Virtual-Access1 AAA/AUTHOR/VPDN (2958969022): Port='Virtual-Access1'  
list='default' service=NET  
00:54:56: AAA/AUTHOR/VPDN: Virtual-Access1 (2958969022) user='madrid.com'  
00:54:56: Virtual-Access1 AAA/AUTHOR/VPDN (2958969022): send AV service=ppp  
00:54:56: Virtual-Access1 AAA/AUTHOR/VPDN (2958969022): send AV protocol=vpdn  
00:54:56: Virtual-Access1 AAA/AUTHOR/VPDN (2958969022): found list "default"  
00:54:56: Virtual-Access1 AAA/AUTHOR/VPDN (2958969022): Method=radius (radius)  
00:54:56: RADIUS: authenticating to get author data  
00:54:56: RADIUS: ustruct sharecount=2  
00:54:56: RADIUS: Initial Transmit Virtual-Access1 id 8 10.200.56.16:1645,  
Access-Request, len 74  
00:54:56:      Attribute 4 6 0AC83803  
00:54:56:      Attribute 5 6 20030021  
00:54:56:      Attribute 61 6 00000005  
00:54:56:      Attribute 1 12 6D616472  
00:54:56:      Attribute 2 18 A6921C76  
00:54:56:      Attribute 6 6 00000005  
00:54:56: RADIUS: Received from id 8 10.200.56.16:1645, Access-Accept, len 158  
00:54:56:      Attribute 26 30 0000000901187670  
00:54:56:      Attribute 26 30 0000000901187670  
00:54:56:      Attribute 26 38 0000000901207670  
00:54:56:      Attribute 26 40 0000000901227670  
00:54:56: RADIUS: saved authorization data for user 61561D74 at 61559AD0  
00:54:56: RADIUS: cisco AVPair "vpdn:tunnel-id=MADRID"  
00:54:56: RADIUS: cisco AVPair "vpdn:tunnel-type=l2tp"  
00:54:56: RADIUS: cisco AVPair "vpdn:ip-addresses=10.200.56.9"  
00:54:56: RADIUS: cisco AVPair "vpdn:l2tp-tunnel-password=cisco"  
00:54:56: AAA/AUTHOR (2958969022): Post authorization status = PASS_ADD
```

```
00:54:56: AAA/AUTHOR/VPDN: Processing AV service=ppp
00:54:56: AAA/AUTHOR/VPDN: Processing AV protocol=vpdn
00:54:56: AAA/AUTHOR/VPDN: Processing AV tunnel-id=MADRID
00:54:56: AAA/AUTHOR/VPDN: Processing AV tunnel-type=l2tp
00:54:56: AAA/AUTHOR/VPDN: Processing AV ip-addresses=10.200.56.9
00:54:56: AAA/AUTHOR/VPDN: Processing AV l2tp-tunnel-password=cisco
00:54:56: AAA/MEMORY: free_user (0x61561D74) user='madrid.com' ruser=''
port='Virtual-Access1' rem_addr='' authen_type=NONE service=LOGIN priv=0
00:54:56: Tnl 8945 L2TP: SM State idle
00:54:56: Tnl 8945 L2TP: O SCCRQ
00:54:56: Tnl 8945 L2TP: Tunnel state change from idle to wait-ctl-reply
00:54:56: Tnl 8945 L2TP: SM State wait-ctl-reply
00:54:56: Tnl 8945 L2TP: I SCCRP from TO-MADRID
00:54:56: Tnl 8945 L2TP: Got a challenge from remote peer, TO-MADRID
00:54:56: Tnl 8945 L2TP: Got a response from remote peer, TO-MADRID
00:54:56: Tnl 8945 L2TP: Tunnel Authentication success
00:54:56: Tnl 8945 L2TP: Tunnel state change from wait-ctl-reply to established
00:54:56: Tnl 8945 L2TP: O SCCCN to TO-MADRID tnlid 20349
00:54:56: Tnl 8945 L2TP: SM State established
00:54:56: AAA: parse name=Virtual-Access1 idb type=21 tty=-1
00:54:56: AAA: name=Virtual-Access1 flags=0x11 type=7 shelf=0 slot=0 adapter=0
port=1 channel=0
00:54:56: AAA/MEMORY: create_user (0x6155AA68) user='asier@madrid.com' ruser=''
port='Virtual-Access1' rem_addr='' authen_type=CHAP service=PPP priv=1
00:54:56: Tnl/Cl 8945/10 L2TP: Session FS enabled
00:54:56: Tnl/Cl 8945/10 L2TP: Session state change from idle to wait-for-tunnel
00:54:56: Vi1 Tnl/Cl 8945/10 L2TP: Create session
00:54:56: Tnl 8945 L2TP: SM State established
00:54:56: Vi1 Tnl/Cl 8945/10 L2TP: O ICRQ to TO-MADRID 20349/0
00:54:56: Vi1 Tnl/Cl 8945/10 L2TP: Session state change from wait-for-tunnel
to wait-reply
00:54:56: Vi1 Tnl/Cl 8945/10 L2TP: O ICCN to TO-MADRID 20349/42
00:54:56: Vi1 Tnl/Cl 8945/10 L2TP: Session state change from wait-reply
to established
00:54:57: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up
```

```
6400_nrp1#
6400_nrp1#
6400_nrp1#sh vpdn tunn
```

```
L2TP Tunnel Information Total tunnels 1 sessions 1
```

LocID	RemID	Remote Name	State	Remote Address	Port	Sessions
8945	20349	TO-MADRID	est	10.200.56.9	1701	1

```
%No active L2F tunnels
```

```
PPPoE Tunnel Information Total tunnels 1 sessions 1
```

```
PPPoE Tunnel Information
```

```
Session count: 1
```

```
6400_nrp1#
```

[Отладка Соединения с madrid.com: Отладка на madrid.com](#)

```
madrid#show debug
```

```
VPN:
```

```
  L2X protocol events debugging is on
```

```
PPP:
```

```
  PPP authentication debugging is on
```

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

```
madrid#
```

3d22h: Tnl 62700 L2TP: O StopCCN to MADRID tnlid 57782
3d22h: Tnl 62700 L2TP: Tunnel state change from no-sessions-left to shutting-down
3d22h: Tnl 62700 L2TP: Shutdown tunnel
3d22h: Tnl 62700 L2TP: Tunnel state change from shutting-down to idle
3d22h: L2TP: I SCCRQ from MADRID tnl 41083
3d22h: Tnl 39515 L2TP: Got a challenge in SCCRQ, MADRID
3d22h: Tnl 39515 L2TP: New tunnel created for remote MADRID, address 10.200.56.4
3d22h: Tnl 39515 L2TP: O SCCRP to MADRID tnlid 41083
3d22h: Tnl 39515 L2TP: Tunnel state change from idle to wait-ctl-reply
3d22h: Tnl 39515 L2TP: I SCCCN from MADRID tnl 41083
3d22h: Tnl 39515 L2TP: Got a Challenge Response in SCCCN from MADRID
3d22h: Tnl 39515 L2TP: Tunnel Authentication success
3d22h: Tnl 39515 L2TP: Tunnel state change from wait-ctl-reply to established
3d22h: Tnl 39515 L2TP: SM State established
3d22h: Tnl 39515 L2TP: I ICRQ from MADRID tnl 41083
3d22h: Tnl/Cl 39515/44 L2TP: Session FS enabled
3d22h: Tnl/Cl 39515/44 L2TP: Session state change from idle to wait-connect
3d22h: Tnl/Cl 39515/44 L2TP: New session created
3d22h: Tnl/Cl 39515/44 L2TP: O ICRP to MADRID 41083/12
3d22h: Tnl/Cl 39515/44 L2TP: I ICCN from MADRID tnl 41083, cl 12
3d22h: Tnl/Cl 39515/44 L2TP: Session state change from wait-connect to established
3d22h: Vi1 PPP: Phase is DOWN, Setup [0 sess, 0 load]
3d22h: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up
3d22h: Vi1 PPP: Treating connection as a dedicated line
3d22h: Vi1 PPP: Phase is ESTABLISHING, Active Open [0 sess, 0 load]
3d22h: Vi1 LCP: O CONFREQ [Closed] id 1 len 14
3d22h: Vi1 LCP: AuthProto PAP (0x0304C023)
3d22h: Vi1 LCP: MagicNumber 0x64D04BCB (0x050664D04BCB)
3d22h: Vi1 PPP: Using set call direction
3d22h: Vi1 PPP: Treating connection as a callin
3d22h: Vi1 LCP: I FORCED CONFREQ len 10
3d22h: Vi1 LCP: AuthProto PAP (0x0304C023)
3d22h: Vi1 LCP: MagicNumber 0x10B541C6 (0x050610B541C6)
3d22h: Vi1 PPP: Phase is AUTHENTICATING, by this end [0 sess, 0 load]
3d22h: Vi1 PAP: I AUTH-REQ id 1 len 30 from "asier@madrid.com"
3d22h: Vi1 PAP: Authenticating peer asier@madrid.com
3d22h: Vi1 PAP: O AUTH-ACK id 1 len 5
3d22h: Vi1 PPP: Phase is UP [0 sess, 0 load]
3d22h: Vi1 IPCP: O CONFREQ [Closed] id 1 len 10
3d22h: Vi1 IPCP: Address 10.200.56.9 (0x03060AC83809)
3d22h: Vi1 IPCP: I CONFREQ [REQsent] id 1 len 34
3d22h: Vi1 IPCP: Address 0.0.0.0 (0x030600000000)
3d22h: Vi1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
3d22h: Vi1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)
3d22h: Vi1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
3d22h: Vi1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)
3d22h: Vi1 IPCP: Pool returned 31.0.0.1
3d22h: Vi1 IPCP: O CONFREQ [REQsent] id 1 len 16
3d22h: Vi1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)
3d22h: Vi1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)
3d22h: Vi1 IPCP: I CONFACK [REQsent] id 1 len 10
3d22h: Vi1 IPCP: Address 10.200.56.9 (0x03060AC83809)
3d22h: Vi1 IPCP: I CONFREQ [ACKrcvd] id 2 len 22
3d22h: Vi1 IPCP: Address 0.0.0.0 (0x030600000000)
3d22h: Vi1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
3d22h: Vi1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
3d22h: Vi1 IPCP: O CONFNAK [ACKrcvd] id 2 len 22
3d22h: Vi1 IPCP: Address 31.0.0.1 (0x03061F000001)
3d22h: Vi1 IPCP: PrimaryDNS 144.254.6.135 (0x810690FE0687)
3d22h: Vi1 IPCP: SecondaryDNS 144.254.6.143 (0x830690FE068F)
3d22h: Vi1 IPCP: I CONFREQ [ACKrcvd] id 3 len 22
3d22h: Vi1 IPCP: Address 31.0.0.1 (0x03061F000001)
3d22h: Vi1 IPCP: PrimaryDNS 144.254.6.135 (0x810690FE0687)
3d22h: Vi1 IPCP: SecondaryDNS 144.254.6.143 (0x830690FE068F)


```
3d22h: Vi1 IPCP: O CONFACK [ACKrcvd] id 3 len 22
3d22h: Vi1 IPCP: Address 31.0.0.1 (0x03061F000001)
3d22h: Vi1 IPCP: PrimaryDNS 144.254.6.135 (0x810690FE0687)
3d22h: Vi1 IPCP: SecondaryDNS 144.254.6.143 (0x830690FE068F)
3d22h: Vi1 IPCP: State is Open
3d22h: Vi1 IPCP: Install route to 31.0.0.1
3d22h: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up
```

[Отладка Соединения с barcelona.com: Отладка на barcelona.com](#)

```
barcelona#show debug
```

```
General OS:
```

```
AAA Authentication debugging is on
```

```
AAA Authorization debugging is on
```

```
PPP:
```

```
PPP authentication debugging is on
```

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

```
barcelona#
```

```
barcelona#
```

```
*Oct 23 07:32:08.257: Vi1 LCP: I ECHOREQ [Open] id 114 len 12 magic 0x1FE02867
*Oct 23 07:32:08.257: Vi1 LCP: O ECHOREP [Open] id 114 len 12 magic 0x6DBBA9F4
*Oct 23 07:32:16.813: Vi2 PPP: Phase is DOWN, Setup [0 sess, 1 load]
*Oct 23 07:32:16.925: %LINK-3-UPDOWN: Interface Virtual-Access2, changed state to up
*Oct 23 07:32:16.925: Vi2 PPP: Treating connection as a dedicated line
*Oct 23 07:32:16.925: Vi2 PPP: Phase is ESTABLISHING, Active Open [0 sess, 1 load]
*Oct 23 07:32:16.925: Vi2 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Oct 23 07:32:16.925: Vi2 LCP: O CONFREQ [Closed] id 1 len 14
*Oct 23 07:32:16.925: Vi2 LCP: AuthProto PAP (0x0304C023)
*Oct 23 07:32:16.925: Vi2 LCP: MagicNumber 0x6E69874A (0x05066E69874A)
*Oct 23 07:32:16.925: Vi2 PPP: Using set call direction
*Oct 23 07:32:16.925: Vi2 PPP: Treating connection as a callin
*Oct 23 07:32:16.925: Vi2 LCP: I FORCED CONFREQ len 10
*Oct 23 07:32:16.925: Vi2 LCP: AuthProto PAP (0x0304C023)
*Oct 23 07:32:16.925: Vi2 LCP: MagicNumber 0x10C2B619 (0x050610C2B619)
*Oct 23 07:32:16.925: Vi2 PPP: Phase is AUTHENTICATING, by this end [0 sess, 1 load]
*Oct 23 07:32:16.925: Vi2 PAP: I AUTH-REQ id 1 len 33 from "asier@barcelona.com"
*Oct 23 07:32:16.925: Vi2 PAP: Authenticating peer asier@barcelona.com
*Oct 23 07:32:16.925: AAA: parse name=Virtual-Access2 idb type=21 tty=-1
*Oct 23 07:32:16.925: AAA: name=Virtual-Access2 flags=0x11 type=5 shelf=0 slot=0
adapter=0 port=2 channel=0
*Oct 23 07:32:16.925: AAA/MEMORY: create_user (0x6187732C) user='asier@barcelona.com'
ruser='' port='Virtual-Access2' rem_addr='' authen_type=PAP service=PPP priv=1
*Oct 23 07:32:16.925: AAA/AUTHEN/START (3921030273): port='Virtual-Access2' list=''
action=LOGIN service=PPP
*Oct 23 07:32:16.929: AAA/AUTHEN/START (3921030273): using "default" list
*Oct 23 07:32:16.929: AAA/AUTHEN/START (3921030273): Method=radius (radius)
*Oct 23 07:32:16.933: AAA/AUTHEN (3921030273): status = PASS
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/LCP: Authorize LCP
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/LCP (230701808): Port='Virtual-Access2'
list='' service=NET
*Oct 23 07:32:16.933: AAA/AUTHOR/LCP: Vi2 (230701808) user='asier@barcelona.com'
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/LCP (230701808): send AV service=ppp
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/LCP (230701808): send AV protocol=lcp
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/LCP (230701808): found list "default"
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/LCP (230701808): Method=radius (radius)
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR (230701808): Post authorization status = PASS_REPL
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/LCP: Processing AV service=ppp
*Oct 23 07:32:16.933: Vi2 PAP: O AUTH-ACK id 1 len 5
*Oct 23 07:32:16.933: Vi2 PPP: Phase is UP [0 sess, 1 load]
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/FSM (284378021): Port='Virtual-Access2'
list='' service=NET
```

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*Oct 23 07:32:16.933: AAA/AUTHOR/FSM: Vi2 (284378021) user='asier@barcelona.com'
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/FSM (284378021): send AV service=ppp
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/FSM (284378021): send AV protocol=ip
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/FSM (284378021): found list "default"
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/FSM (284378021): Method=radius (radius)
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR (284378021): Post authorization status = PASS_REPL
*Oct 23 07:32:16.933: Vi2 AAA/AUTHOR/FSM: We can start IPCP
*Oct 23 07:32:16.933: Vi2 IPCP: O CONFREQ [Closed] id 1 len 10
*Oct 23 07:32:16.933: Vi2 IPCP: Address 0.0.0.0 (0x030600000000)
*Oct 23 07:32:16.957: Vi2 IPCP: I CONFREQ [REQsent] id 1 len 34
*Oct 23 07:32:16.957: Vi2 IPCP: Address 0.0.0.0 (0x030600000000)
*Oct 23 07:32:16.957: Vi2 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
*Oct 23 07:32:16.957: Vi2 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)
*Oct 23 07:32:16.957: Vi2 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
*Oct 23 07:32:16.957: Vi2 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)
*Oct 23 07:32:16.961: Vi2 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0,
we want 0.0.0.0
*Oct 23 07:32:16.961: Vi2 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Oct 23 07:32:16.961: Vi2 AAA/AUTHOR/IPCP: Processing AV addr=27.0.0.1
*Oct 23 07:32:16.961: Vi2 AAA/AUTHOR/IPCP: Authorization succeeded
*Oct 23 07:32:16.961: Vi2 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0,
we want 27.0.0.1
*Oct 23 07:32:16.961: Vi2 IPCP: O CONFREQ [REQsent] id 1 len 28
*Oct 23 07:32:16.961: Vi2 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
*Oct 23 07:32:16.961: Vi2 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)
*Oct 23 07:32:16.961: Vi2 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
*Oct 23 07:32:16.961: Vi2 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)
*Oct 23 07:32:16.965: Vi2 IPCP: I CONFACK [REQsent] id 1 len 10
*Oct 23 07:32:16.965: Vi2 IPCP: Address 0.0.0.0 (0x030600000000)
*Oct 23 07:32:16.981: Vi2 IPCP: I CONFREQ [ACKrcvd] id 2 len 10
*Oct 23 07:32:16.981: Vi2 IPCP: Address 0.0.0.0 (0x030600000000)
*Oct 23 07:32:16.981: Vi2 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0,
we want 27.0.0.1
*Oct 23 07:32:16.981: Vi2 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Oct 23 07:32:16.981: Vi2 AAA/AUTHOR/IPCP: Processing AV addr=27.0.0.1
*Oct 23 07:32:16.981: Vi2 AAA/AUTHOR/IPCP: Authorization succeeded
*Oct 23 07:32:16.981: Vi2 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0,
we want 27.0.0.1
*Oct 23 07:32:16.981: Vi2 IPCP: O CONFNAK [ACKrcvd] id 2 len 10
*Oct 23 07:32:16.981: Vi2 IPCP: Address 27.0.0.1 (0x03061B000001)
*Oct 23 07:32:17.001: Vi2 IPCP: I CONFREQ [ACKrcvd] id 3 len 10
*Oct 23 07:32:17.001: Vi2 IPCP: Address 27.0.0.1 (0x03061B000001)
*Oct 23 07:32:17.001: Vi2 AAA/AUTHOR/IPCP: Start. Her address 27.0.0.1,
we want 27.0.0.1
*Oct 23 07:32:17.001: Vi2 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Oct 23 07:32:17.001: Vi2 AAA/AUTHOR/IPCP: Processing AV addr=27.0.0.1
*Oct 23 07:32:17.001: Vi2 AAA/AUTHOR/IPCP: Authorization succeeded
*Oct 23 07:32:17.001: Vi2 AAA/AUTHOR/IPCP: Done. Her address 27.0.0.1,
we want 27.0.0.1
*Oct 23 07:32:17.001: Vi2 IPCP: O CONFACK [ACKrcvd] id 3 len 10
*Oct 23 07:32:17.001: Vi2 IPCP: Address 27.0.0.1 (0x03061B000001)
*Oct 23 07:32:17.001: Vi2 IPCP: State is Open
*Oct 23 07:32:17.005: Vi2 IPCP: Install route to 27.0.0.1
*Oct 23 07:32:17.933: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access2,
changed state to up
```

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