Tiempos de espera por usuario PPP

Contenido

Introducción

Este consejo técnico explica cómo implementar tiempos de espera por usuario en los servidores de acceso de Cisco. Para que los tiempos de espera por usuario funcionen correctamente, ejecute Cisco IOS versión 11.3(8)T o posterior. Si ejecuta una versión anterior de Cisco IOS, los temporizadores quizás sólo funcionen en algunas configuraciones básicas, como sólo asíncrona sin perfiles virtuales.

Este documento cubre la configuración del servidor de acceso a la red (NAS) y del servidor de autenticación, autorización y contabilidad (AAA). También proporciona salida de los comandos show y debug para que pueda confirmar si sus dispositivos funcionan correctamente y así pueda depurar cualquier problema.

Prerequisites

Requirements

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.

- Cisco IOS versión 11.3(8)T o posterior

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Convenciones

Para obtener más información sobre las convenciones del documento, consulte Convenciones de Consejos Técnicos de Cisco.

Detalles técnicos

Antes de tratar los tiempos de espera por usuario, que incorporan otras variables como la configuración AAA y los servidores RADIUS/TACACS+, examinaremos cómo configurar un servidor de acceso para tiempos de espera fijos, que son aquéllos que se aplican de manera global y a todas las personas que realizan la marcación de entrada.

Los principales comandos de Cisco IOS son dialer idle-timeout y timeout absolute. Estos son dos comandos de configuración de interfaces. También veremos un tercer comando, ppp timeout idle, utilizado en las interfaces de acceso virtual.

dialer idle-timeout <x>

Este comando se puede configurar en cualquier interfaz con capacidad de marcador y controla cuánto tiempo puede estar inactiva la conexión (en segundos) antes de que se termine. A continuación se enumeran cuatro puntos que se deben tener en cuenta acerca de este comando:

1. Este comando sólo puede aplicarse a interfaces que sean capaces de utilizar el marcador. De forma predeterminada, todas las interfaces ISDN (BRI y PRI) son compatibles con el marcador, por lo que agregar este comando no es un problema. Las interfaces asíncronas (incluidas las interfaces asíncronas de grupo) no tienen capacidad de marcador de manera predeterminada. Para que así sea, debe ingresar el comando dialer in-band. Sólo luego de haber ingresado el comando dialer in-band en la interfaz asincrónica puede configurar el dialer idle-timeout. Nota**Nota:** La vtemplate (y, por lo tanto, las interfaces de acceso virtual) no son compatibles con el marcador (sólo son punto a punto) y, por lo tanto, no pueden utilizar este comando.
2. En una interfaz con capacidad de marcador (es decir, ISDN o asíncrona con marcador en banda), el valor predeterminado es **dialer idle-timeout 120** (segundos). Este tiempo es generalmente muy corto en un entorno ISP, por lo tanto, deberá aumentarlo casi siempre.
3. El valor predeterminado del tiempo de espera inactiva del marcador sólo se restablece en el tráfico saliente (tráfico hacia el usuario) que coincide con la lista del marcador (es decir, que se considera interesante). También es posible restablecerlo para el tráfico interesante

entrante agregando la palabra clave **both** al final del comando (es decir, **dialer idle-timeout 600**).

4. El tráfico considerado "interesante" es definido por el comando **dialer-list *<n>*** , donde *<n>* coincide con el número en su sentencia de comando *dialer-group* <n> .

timeout absolute <x> <y>

Este comando se puede configurar en cualquier interfaz WAN, incluidas las interfaces asíncronas, las interfaces ISDN, las interfaces de marcador y las interfaces vtemplate. Controlan el tiempo de actividad de la conexión antes de finalizarla. Observe que la sintaxis es <x> <y> en donde <x> está en minutos e <y> está en segundos.

ppp timeout idle <x>

Este comando sólo se puede configurar en interfaces vtemplate (e incluso está oculto en el analizador) y controla cuánto tiempo puede estar inactiva la conexión (en segundos) antes de que se termine. Su función es muy similar a la del comando dialer idle-timeout en las interfaces del marcador, sólo que ppp timeout idle es para las interfaces vtemplate/vaccess. Debido a que se utiliza específicamente en interfaces vtemplate/vaccess, este comando es apropiado para configuraciones de perfil virtual (donde siempre se crea una interfaz de acceso para un usuario) y gateways domésticos de red de acceso telefónico privada virtual (VPDN) (donde las interfaces proyectadas siempre se terminan en una interfaz de acceso virtual). A diferencia del comando dialer idle-timeout, no existe el concepto de tráfico interesante y, por lo tanto, todo el tráfico de los usuarios reiniciará el temporizador ocioso. El tráfico que no es de usuarios, tal como el del las señales de mantenimiento del protocolo de control de link (LCP) y el de los paquetes de negociación del protocolo de control de red (NCP), no restaura el temporizador.

Configurar

En esta sección encontrará la información para configurar las funciones descritas en este documento.

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

En este documento, se utilizan estas configuraciones:

- Configuración básica (perfiles virtuales no habilitados)
- Tiempos de espera agotados globales
- Tiempos de espera por usuario – configuración del servidor AAA
- 'Tiempos de espera por usuario – configuración de NAS'

Configuración básica (perfiles virtuales no habilitados)

Para fines de aprendizaje, supongamos que se trata de una configuración base como la que se muestra a continuación. No está activada la función de perfiles virtuales.

Configuración base
`` ! version 11.3 ```

```
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname access-3
!
aaa new-model
aaa authentication login default tacacs+ local
aaa authentication login console none
aaa authentication login use-radius local radius
aaa authentication enable default enable
aaa authentication ppp default if-needed local tacacs+
aaa authentication ppp use-radius if-needed local radius
aaa authentication arap default local
aaa authorization exec default tacacs+ local
aaa authorization exec console none
aaa authorization exec use-radius local radius if-
authenticated
aaa authorization network default local tacacs+ if-
authenticated
aaa authorization network use-radius local radius if-
authenticated
aaa accounting exec default stop-only tacacs+
aaa accounting network default stop-only tacacs+
aaa accounting system default start-stop tacacs+
enable secret 5 $1$oMKx$kPcop1zxkpxa8fkxXBWp21
!
modem call-record terse
modem buffer-size 250
no ip finger
!
isdn switch-type primary-5ess
clock timezone PST -8
clock summer-time PDT recurring
!

controller T1 0
 framing esf
 clock source line primary
 linecode b8zs
 pri-group timeslots 1-24
! interface Loopback0 ip address 10.1.1.1 255.255.255.0
no ip directed-broadcast ! interface Ethernet0 ip
address 172.16.1.1 255.255.255.0 no ip directed-
broadcast ! interface Virtual-Template1 ip unnumbered
Loopback0 no ip directed-broadcast no keepalive peer
default ip address pool default ppp authentication chap
pap use-radius ppp multilink ! interface Serial0:23 ip
unnumbered Loopback0 no ip directed-broadcast
encapsulation ppp no logging event link-status no
keepalive dialer-group 1 autodetect encapsulation ppp
v120 isdn switch-type primary-5ess isdn incoming-voice
modem peer default ip address pool default no fair-queue
no cdp enable ppp max-bad-auth 3 ppp authentication chap
pap use-radius ppp multilink ! ! interface Group-Async1
ip unnumbered Loopback0 no ip directed-broadcast
encapsulation ppp no logging event link-status async
mode interactive peer default ip address pool default no
fair-queue no cdp enable ppp max-bad-auth 3 ppp
authentication chap pap use-radius ppp multilink group-
range 1 96 hold-queue 10 in ! ip local pool default
10.1.1.2 10.1.1.200 ip classless ip route 0.0.0.0
0.0.0.0 172.16.1.254 ! no logging console dialer-list 1
protocol ip permit tacacs-server host 172.16.1.201
```

```
tacacs-server key cisco radius-server host 172.16.1.202
auth-port 1645 acct-port 1646 key cisco ! line con 0
exec-timeout 0 0 authorization exec console login
authentication console transport input none line 1 96
autoselect during-login autoselect ppp modem Dialin
escape-character BREAK authorization exec use-radius
login authentication use-radius line aux 0 line vty 0 4
exec-timeout 60 0 ! end
```

Tiempos de espera agotados globales

Para el siguiente ejemplo, impondremos un tiempo de espera inactivo de 30 minutos (1800 segundos) y un tiempo de espera absoluto de tres horas (180 minutos) para los usuarios. El cambio en la configuración delta que habilitará los **tiempos de espera PPP globales** será el siguiente:

```
interface Serial0:23
 dialer idle-timeout 1800
 timeout absolute 180
!
! interface Group=Async1 dialer in-band dialer idle-timeout 1800 dialer-group 1 timeout absolute
180
```

Si no tiene una lista de marcador 1, deberá definir una. El más simple sería dialer-list 1 protocol ip permit.

Si usa perfiles virtuales, su configuración puede ser más sencilla, ya que puede colocar el tiempo de espera en la interfaz de plantilla virtual, tal como se muestra a continuación:

```
interface Virtual-Template1
 ppp timeout idle 1800
 timeout absolute 180
```

Tiempos de espera por usuario – configuración del servidor AAA

Ahora que hemos trabajado con tiempos de espera agotados globales, ampliaremos este conocimiento a tiempos de espera por usuario. Sus valores de temporizador por usuario comenzarán a bajar durante la autorización de la red, entonces, debe tener configurado un comando de red de autorización aaaa para cualquier método que esté utilizando, que sea RADIUS o TACACS+. Tenga en cuenta también que los temporizadores por usuario siempre reemplazarán cualquier valor global que esté preconfigurado en el NAS. La forma en que funcionan los temporizadores por usuario es que cuando el servidor de acceso recibe los atributos de tiempo de espera durante la fase de autorización de red, traducirá estos atributos en un conjunto de comandos de configuración que se ingresarán en la interfaz a la que se conectará el usuario. Estos comandos de configuración que ingresan a la interfaz por un proceso en segundo plano son temporales; se eliminan cuando el usuario se desconecta.

A continuación se enumeran varios perfiles de usuario de ejemplo en el servidor:

Perfiles de RADIUS

```
timeout-absolute-ppp Password = "cisco"
        Service-Type = Framed,
        Framed-Protocol = PPP,
```

```
        Framed-IP-Address = 255.255.255.254,
        Session-Timeout = 600

timeout-idle-ppp Password = "cisco"
        Service-Type = Framed,
        Framed-Protocol = PPP
        Framed-IP-Address = 255.255.255.254,
        Idle-Timeout = 300

timeout-both-ppp Password = "cisco"
        Service-Type = Framed,
        Framed-Protocol = PPP,
        Framed-IP-Address = 255.255.255.254,
        Session-Timeout = 600,
        Idle-Timeout = 300
```

Nota: La sintaxis puede variar en función de la configuración del diccionario.

Perfiles TACACS+

```
user = timeout-absolute-ppp {
        chap = cleartext cisco
        service = ppp protocol = lcp {
                timeout = 10
        }
        service = ppp protocol = ip {
                addr-pool = "default"
        }
}

user = timeout-idle-ppp {
        chap = cleartext cisco
        service = ppp protocol = lcp {
                idletime = 5
        }
        service = ppp protocol = ip {
                addr-pool = "default"
        }
}

user = timeout-both-ppp {
        chap = cleartext cisco
        service = ppp protocol = lcp {
                timeout = 10
                idletime = 5
        }
        service = ppp protocol = multilink { }
        service = ppp protocol = ip {
                addr-pool = "default"
        }
}
```

‘Tiempos de espera por usuario – configuración de NAS’

Si sólo utiliza la asincrónica (no ISDN) y no utiliza perfiles virtuales, siempre que tenga dialer in-band configurado en las interfaces asincrónicas (o asincrónicas de grupo), los temporizadores por usuario deberían funcionar. El proceso de fondo insertará los temporizadores en la interfaz asíncrona, usando los comandos **dialer idle-timeout** y **timeout absolute** con los valores pasados de RADIUS/TACACS+, y los sacará cuando el usuario se desconecte.

Si sólo está haciendo asincrónico (sin ISDN) y está utilizando perfiles virtuales, no necesita un

marcador configurado en banda en la interfaz asincrónica (o grupo asincrónico). Debería funcionar. El proceso de segundo plano insertará temporizadores en las interfaces de acceso virtual utilizando los comandos ppp timeout idle y timeout absolute con los valores transferidos por RADIUS/TACACS+, y los extrae cuando el usuario se desconecta.

Si tiene usuarios ISDN y necesita hacer temporizadores por usuario, es posible que necesite utilizar perfiles virtuales. La razón es que el proceso de fondo que hemos discutido anteriormente no funciona para las interfaces ISDN; es decir, no puede configurar el canal B al que está conectado el usuario. Lo único que puede configurar es el canal D que afecta a todos. Sin embargo, si un usuario negocia links múltiples en una sesión, el servidor de acceso creará una interfaz de acceso virtual de forma automática, que actuará como la interfaz de agrupamiento para el usuario. El proceso en segundo plano trabaja con interfaces de acceso virtual, pero no trabaja con una llamada ISDN no multilink cuando no existe una interfaz de acceso virtual. Por lo tanto, si tendrá usuarios de canal B únicos que no negocien multilink y desea instalar tiempos de espera por usuario para ellos, deberá habilitar los perfiles virtuales. La habilitación de perfiles virtuales obliga a la creación de una interfaz vaccess para todos los usuarios (no sólo los usuarios de links múltiples) y el proceso de fondo puede insertar satisfactoriamente los comandos ppp timeout idle y timeout absolute. Si decide no habilitar los perfiles virtuales, los usuarios asíncronos y los usuarios ISDN multilink podrán aplicar tiempos de espera por usuario a ellos. Pero, los usuarios ISDN sin links múltiples no podrán aplicar el tiempo de espera por usuario. Sólo se aplicarán los tiempos de espera globales configurados estáticamente en la interfaz (si los hubiera). Si trata de aplicar los tiempos de espera agotados por usuario a un usuario ISDN no multilink y que no tenga activados los perfiles virtuales, la conexión de usuario no superaría la autorización porque el servidor de acceso era incapaz de procesar los atributos obligatorios de tiempo de espera agotados por usuario.

Además, se ha agregado una función a Cisco IOS 11.3(8.1)T y versiones posteriores, lo que permite que los tiempos de espera por usuario se apliquen a usuarios ISDN no multilink. Básicamente, elude el modo de configuración de proceso en segundo plano utilizado por lo general y configura los temporizadores directamente en el canal B sin utilizar la interfaz de línea de comandos.

A continuación, se presentan dos reglas que puede seguir para resumir esta configuración complicada:

- Si no usa perfiles virtuales, configure **dialer en banda** en las interfaces asíncronas y ejecute Cisco IOS 11.3(8.1)T o posterior. Si ejecuta el IOS de Cisco 11.3(8)T, tenga en cuenta que no se puede aplicar el tiempo de espera por usuario a los usuarios ISDN sin links múltiples, ya que de lo contrario no podrían conectarse.
- Si utiliza perfiles virtuales, la versión 11.3(8)T o las versiones posteriores de Cisco IOS funcionarán bien.

Verificación

Actualmente, no hay un procedimiento de verificación disponible para esta configuración.

Troubleshoot

En esta sección encontrará información que puede utilizar para solucionar problemas de configuración. Para la depuración, se incluyen seis ejemplos de salida de llamada. Para saltar

directamente a una sección determinada, seleccione uno de los enlaces siguientes:

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 **debug**, consulte Información Importante sobre Comandos Debug.

Nota: Para ver los mismos comandos y resultados que se muestran a continuación, debe estar ejecutando la versión 11.3AA o la versión 12.0T del IOS de Cisco.

Llamada asíncrona con perfiles virtuales: la conexión no se vuelve activa

A continuación, hay una llamada asíncrona con perfiles virtuales. El perfil instala un tiempo de espera absoluto de 90 segundos y un tiempo de espera ocioso de 60 segundos. En este ejemplo, no dejaremos que la conexión se interrumpa por inactividad. Consulte los comentarios en el resultado siguiente para obtener más detalles. Los comentarios están resaltados y en texto en cursiva.

```
!--- ISDN setup message comes in. *Mar 4 19:21:47.772: ISDN Se0:23: RX <- SETUP pd = 8 callref =
0x09 *Mar 4 19:21:47.772: Bearer Capability i = 0x9090A2 *Mar 4 19:21:47.772: Channel ID i =
0xA98393 *Mar 4 19:21:47.772: Called Party Number i = 0xC1, '4085703932' *Mar 4 19:21:47.776:
ISDN Se0:23: TX -> CALL_PROC pd = 8 callref = 0x8009 *Mar 4 19:21:47.776: Channel ID i =
0xA98393 *Mar 4 19:21:47.776: ISDN Se0:23: TX -> ALERTING pd = 8 callref = 0x8009 !--- Modem is
allocated. *Mar 4 19:21:47.776: EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x3D, ces=0x1
bchan=0x12, event=0x1, cause=0x0 *Mar 4 19:21:47.776: VDEV_ALLOCATE: slot 1 and port 28 is
allocated. *Mar 4 19:21:47.776: EVENT_FROM_ISDN:(003D): DEV_INCALL at slot 1 and port 28 *Mar 4
19:21:47.776: CSM_PROC_IDLE: CSM_EVENT_ISDN_CALL at slot 1, port 28 *Mar 4 19:21:47.776: Mica
Modem(1/28): Configure(0x1 = 0x0) *Mar 4 19:21:47.776: Mica Modem(1/28): Configure(0x23 = 0x0)
*Mar 4 19:21:47.776: Mica Modem(1/28): Call Setup *Mar 4 19:21:47.932: Mica Modem(1/28): State
Transition to Call Setup !--- Modem goes offhook. *Mar 4 19:21:47.932: Mica Modem(1/28): Went
offhook *Mar 4 19:21:47.932: CSM_PROC_IC1_RING: CSM_EVENT_MODEM_OFFHOOK at slot 1, port 28 *Mar
4 19:21:47.932: ISDN Se0:23: TX -> CONNECT pd = 8 callref = 0x8009 *Mar 4 19:21:47.996: ISDN
Se0:23: RX <- CONNECT_ACK pd = 8 callref = 0x09 !--- DS0 is cut-through. *Mar 4 19:21:47.996:
EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x3D, ces=0x1 bchan=0x12, event=0x4, cause=0x0
*Mar 4 19:21:47.996: EVENT_FROM_ISDN:(003D): DEV_CONNECTED at slot 1 and port 28 *Mar 4
19:21:47.996: CSM_PROC_IC4_WAIT_FOR_CARRIER: CSM_EVENT_ISDN_CONNECTED at slot 1, port 28 !---
Modem training starts. *Mar 4 19:21:47.996: Mica Modem(1/28): Link Initiate *Mar 4 19:21:49.140:
Mica Modem(1/28): State Transition to Connect *Mar 4 19:21:54.276: Mica Modem(1/28): State
Transition to Link *Mar 4 19:22:05.828: Mica Modem(1/28): State Transition to Trainup *Mar 4
19:22:09.028: Mica Modem(1/28): State Transition to EC Negotiating *Mar 4 19:22:09.568: Mica
Modem(1/28): State Transition to Steady State !--- Modem training completes. *Mar 4
19:22:10.128: AAA: parse NAME=tty53 idb TYPE=10 tty=53 *Mar 4 19:22:10.128: AAA: NAME=tty53
flags=0x11 TYPE=4 shelf=0 slot=0 adapter=0 port=53 channel=0 *Mar 4 19:22:10.128: AAA: parse
NAME=Serial0:18 idb TYPE=12 tty=-1 *Mar 4 19:22:10.128: AAA: NAME=Serial0:18 flags=0x51 TYPE=1
shelf=0 slot=0 adapter=0 port=0 channel=18 !--- PPP begins negotiation. *Mar 4 19:22:11.332:
As53 LCP: Lower layer not up, Fast Starting *Mar 4 19:22:11.332: As53 PPP: Treating connection
as a dedicated line *Mar 4 19:22:11.332: As53 AAA/AUTHOR/FSM: (0): LCP succeeds trivially !---
LCP negotiation completes, authentication begins. *Mar 4 19:22:13.556: As53 PPP: Phase is
```

AUTHENTICATING, by this end *Mar 4 19:22:13.556: As53 CHAP: O CHALLENGE id 1 len 26 from "STACK" *Mar 4 19:22:16.016: As53 AUTH: Started process 0 pid 45 *Mar 4 19:22:16.016: As53 AAA/AUTHOR/PER-USER: Event LCP_DOWN *Mar 4 19:22:16.208: As53 PPP: Phase is AUTHENTICATING, by this end *Mar 4 19:22:16.208: As53 CHAP: O CHALLENGE id 2 len 26 from "STACK" *!--- CHAP response received from client.* *Mar 4 19:22:16.304: As53 CHAP: I RESPONSE id 2 len 30 from "timeout" *Mar 4 19:22:16.304: AAA: parse NAME=Async53 idb TYPE=10 tty=53 *Mar 4 19:22:16.304: AAA: NAME=Async53 flags=0x11 TYPE=4 shelf=0 slot=0 adapter=0 port=53 channel=0 *Mar 4 19:22:16.304: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1 *Mar 4 19:22:16.304: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0 adapter=0 port=0 channel=18 *!--- Send RADIUS query.* *Mar 4 19:22:16.304: RADIUS: ustruct sharecount=1 *Mar 4 19:22:16.304: RADIUS: Initial Transmit Async53 id 0 172.16.24.117:1645, Access-Request, len 92 *Mar 4 19:22:16.304: Attribute 4 6 AC101874 *Mar 4 19:22:16.304: Attribute 5 6 00000035 *Mar 4 19:22:16.304: Attribute 61 6 00000000 *Mar 4 19:22:16.304: Attribute 1 11 74696D65 *Mar 4 19:22:16.304: Attribute 30 12 34303835 *Mar 4 19:22:16.304: Attribute 3 19 0283D0F9 *Mar 4 19:22:16.308: Attribute 6 6 00000002 *Mar 4 19:22:16.308: Attribute 7 6 00000001 *!--- Received RADIUS response, note attribute 27 (Session-Timeout -> absolute timeout) !--- is 0x5A (90) and attribute 28 (Idle-Timeout) is 0x3C (60).* *Mar 4 19:22:16.316: RADIUS: Received from id 0 172.16.24.117:1645, Access-Accept, len 50 *Mar 4 19:22:16.316: Attribute 6 6 00000002 *Mar 4 19:22:16.320: Attribute 7 6 00000001 *Mar 4 19:22:16.320: Attribute 8 6 FFFFFFFE ***Mar 4 19:22:16.320: Attribute 27 6 0000005A**
***Mar 4 19:22:16.320: Attribute 28 6 0000003C**
!--- Start LCP authorization. *Mar 4 19:22:16.320: As53 AAA/AUTHOR/LCP: Authorize LCP *Mar 4 19:22:16.320: AAA/AUTHOR/LCP As53 (3506139973): Port='Async53' list='' service=NET *Mar 4 19:22:16.320: AAA/AUTHOR/LCP: As53 (3506139973) send AV service=ppp *Mar 4 19:22:16.320: AAA/AUTHOR/LCP: As53 (3506139973) send AV protocol=lcp *Mar 4 19:22:16.320: AAA/AUTHOR/LCP (3506139973) found list "default" *Mar 4 19:22:16.320: AAA/AUTHOR/LCP: As53 (3506139973) METHOD=RADIUS *Mar 4 19:22:16.320: AAA/AUTHOR (3506139973): Post authorization status = PASS_REPL *!--- Gleaned per-user timeouts from user profile.* *Mar 4 19:22:16.320: As53 AAA/AUTHOR/LCP: Processing AV service=ppp ***Mar 4 19:22:16.320: As53 AAA/AUTHOR/LCP: Processing AV timeout=90**
***Mar 4 19:22:16.320: As53 AAA/AUTHOR/LCP: Processing AV idletime=60**
!--- Translate AAA attributes to interface configuration commands. !--- Since we are using virtual-profiles, we will use the "ppp timeout idle" !--- command instead of the "dialer in-band" command. Note that 90 second absolute timeout !--- translates to the command "timeout absolute 1 30" (1 minute and 30 seconds). ***Mar 4 19:22:16.320: AAA/AUTHOR/LCP As53: Per-user interface config created:**
timeout absolute 1 30
ppp timeout idle 60

!--- PPP authentication succeeds. *Mar 4 19:22:16.320: As53 CHAP: O SUCCESS id 2 len 4 *Mar 4 19:22:16.320: AAA/ACCT/NET/START User timeout, Port Async53, List "" *Mar 4 19:22:16.320: AAA/ACCT/NET: Found list "default" *!--- Create new vaccess interface.* *Mar 4 19:22:16.416: VTEMPLATE: No unused vaccess, create new vaccess *Mar 4 19:22:16.416: Vi1 VTEMPLATE: Set default settings with no ip address, encap ppp *Mar 4 19:22:16.440: Vi1 VTEMPLATE: Hardware address 00e0.1e81.636c *Mar 4 19:22:16.440: Vi1 VTEMPLATE: Has a new cloneblk vtemplate, now it has vtemplate *Mar 4 19:22:16.440: Vi1 VTEMPLATE: ********** CLONE VACCESS1 ********** *Mar 4 19:22:16.440: Vi1 VTEMPLATE: Clone from Virtual-Template1 interface Virtual-Access1 default ip address no ip address encap ppp ip unnumbered Loopback0 ip access-group 199 in ip helper-address 172.16.24.118 no ip directed-broadcast ip accounting output-packets ip nat inside no keepalive peer default ip address pool default compress mppc ppp callback accept ppp authentication chap pap ms-chap ppp multilink multilink max-links 2 end *Mar 4 19:22:16.504: Vi1 CCP: Re-Syncing history using legacy method *!--- Now add the per-user timeouts we constructed for this user.* *Mar 4 19:22:16.520: Vi1 VTEMPLATE: Has a new cloneblk AAA, now it has vtemplate/AAA *Mar 4 19:22:16.520: Vi1 VTEMPLATE: ********** CLONE VACCESS1 **********
***Mar 4 19:22:16.520: Vi1 VTEMPLATE: Clone from AAA interface Virtual-Access1**
timeout absolute 1 30
ppp timeout idle 60
end

!--- LCP layer is finished, negotiate the appropriate NCPs. *Mar 4 19:22:16.532: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up *Mar 4 19:22:16.536: Vi1 PPP: Treating connection as a dedicated line *Mar 4 19:22:16.536: Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially *Mar 4 19:22:16.536: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP? *Mar 4 19:22:16.536: AAA/AUTHOR/FSM Vi1 (1906691625): Port='Async53' list='' service=NET *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1

(1906691625) send AV service=ppp *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (1906691625) send AV protocol=ip *Mar 4 19:22:16.536: AAA/AUTHOR/FSM (1906691625) found list "default" *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (1906691625) METHOD=RADIUS *Mar 4 19:22:16.536: RADIUS: Using NAS default peer *Mar 4 19:22:16.536: RADIUS: Authorize IP address 0.0.0.0 *Mar 4 19:22:16.536: AAA/AUTHOR (1906691625): Post authorization status = PASS_REPL *Mar 4 19:22:16.536: Vi1 AAA/AUTHOR/FSM: We can start IPCP *Mar 4 19:22:16.536: Vi1 AAA/AUTHOR/FSM: (0): Can we start CCP? *Mar 4 19:22:16.536: AAA/AUTHOR/FSM Vi1 (282953275): Port='Async53' list='' service=NET *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (282953275) send AV service=ppp *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (282953275) send AV protocol=ccp *Mar 4 19:22:16.536: AAA/AUTHOR/FSM (282953275) found list "default" *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (282953275) METHOD=RADIUS *Mar 4 19:22:16.540: AAA/AUTHOR (282953275): Post authorization status = PASS_REPL *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/FSM: We can start CCP *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0 *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0 *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0 *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/FSM: Processing AV service=ppp *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/FSM: Succeeded *Mar 4 19:22:16.656: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's *Mar 4 19:22:16.656: Vi1 AAA/AUTHOR/FSM: Processing AV service=ppp *Mar 4 19:22:16.656: Vi1 AAA/AUTHOR/FSM: Succeeded *Mar 4 19:22:17.536: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1, changed state to up *Mar 4 19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.1.1.3 *Mar 4 19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 4 19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0 *Mar 4 19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded *Mar 4 19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.1.1.3 *Mar 4 19:22:19.608: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.1.1.3 *Mar 4 19:22:19.608: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 4 19:22:19.608: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0 *Mar 4 19:22:19.608: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded *Mar 4 19:22:19.612: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.1.1.3 *Mar 4 19:22:19.704: Vi1 AAA/AUTHOR/IPCP: Start. Her address 10.1.1.3, we want 10.1.1.3 *Mar 4 19:22:19.704: AAA/AUTHOR/IPCP Vi1 (785695075): Port='Async53' list='' service=NET *Mar 4 19:22:19.708: AAA/AUTHOR/IPCP: Vi1 (785695075) send AV service=ppp *Mar 4 19:22:19.708: AAA/AUTHOR/IPCP: Vi1 (785695075) send AV protocol=ip *Mar 4 19:22:19.708: AAA/AUTHOR/IPCP: Vi1 (785695075) send AV addr*10.1.1.3 *Mar 4 19:22:19.708: AAA/AUTHOR/IPCP (785695075) found list "default" *Mar 4 19:22:19.708: AAA/AUTHOR/IPCP: Vi1 (785695075) METHOD=RADIUS *Mar 4 19:22:19.708: RADIUS: Using NAS default peer *Mar 4 19:22:19.708: RADIUS: Authorize IP address 10.1.1.3 *Mar 4 19:22:19.708: AAA/AUTHOR (785695075): Post authorization status = PASS_REPL *Mar 4 19:22:19.708: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 4 19:22:19.708: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.3 *Mar 4 19:22:19.708: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded *Mar 4 19:22:19.708: Vi1 AAA/AUTHOR/IPCP: Done. Her address 10.1.1.3, we want 10.1.1.3 *Mar 4 19:22:19.708: Vi1 AAA/AUTHOR/PER-USER: Event IP_UP *Mar 4 19:22:19.708: Vi1 AAA/PER-USER: processing author params. *!--- PPP negotiation finished, user is connected. !--- User is connected on line 53, async interface 53 and vaccess 1. The "show caller" !--- command shows active time and idle time for this user in Cisco IOS 11.3(8.1)AA or later.* access-3#**show caller**

```
                                              Active    Idle
  Line         User               Service       Time      Time
  tty 53       timeout          Async         00:00:20  00:00:02
  As53         timeout          PPP           00:00:13  00:00:02
  Vi1          timeout          PPP   VDP     00:00:13  00:00:11
```

!--- The "show caller timeout" command shows the installed absolute and idle timeout as well !--- as how much time before the user is disconnected by any timeouts. Note the timeouts !--- only show up on the vaccess interface. access-3#show caller timeouts Session Idle Disconnect Line User Timeout Timeout User in tty 53 timeout - - - As53 timeout - - - **Vi1 timeout 00:01:30 00:01:00 00:00:43**

!--- The "show caller user" command gives more detailed information about the user as well as !--- providing a breakdown of the active and idle time, absolute and idle timeout, !--- and time to disconnect for both idle and absolute timeout. access-3#**show caller user timeout**

```
  User: timeout, line tty 53, service Async
        Active time 00:00:31, Idle time 00:00:12
  Timeouts:            Absolute  Idle      Idle
                                 Session   Exec
```

```
      Limits:          -         -         00:10:00
      Disconnect in:   -         -         -
  TTY: Line 53, running PPP on As53
  Location: MICA V.90 modems
  Line: Baud rate (TX/RX) is 115200/115200, no parity, 1 stopbits, 8 databits
  Status: Ready, Active, No Exit Banner, Async Interface Active
          HW PPP Support Active
  Capabilities: No Flush-at-Activation, Hardware Flowcontrol In
                Hardware Flowcontrol Out, Modem Callout, Modem RI is CD
                Line usable as async interface, ARAP Permitted
                Integrated Modem
  Modem State: Ready

  User: timeout, line As53, service PPP
        Active time 00:00:23, Idle time 00:00:12
  Timeouts:            Absolute  Idle
      Limits:          -         -
      Disconnect in:   -         -
  PPP: LCP Open, multilink Closed, CHAP (<- AAA)
  IP: Local 10.1.1.1
  Counts: 35 packets input, 820 bytes, 0 no buffer
          0 input errors, 0 CRC, 0 frame, 0 overrun
          22 packets output, 517 bytes, 0 underruns
          0 output errors, 0 collisions, 0 interface resets

  User: timeout, line Vi1, service PPP VDP
        Active time 00:00:24, Idle time 00:00:22
  Timeouts:            Absolute  Idle
      Limits:          00:01:30  00:01:00
      Disconnect in:   00:01:05  00:00:37
  PPP: LCP Open, multilink Closed, CHAP (<- none), IPCP, CCP
       Idle timer 60 secs, idle 22 secs
  IP: Local 10.1.1.1, remote 10.1.1.3
      Access list (I/O) is 199/not set
  Counts: 24 packets input, 542 bytes, 0 no buffer
          0 input errors, 0 CRC, 0 frame, 0 overrun
          19 packets output, 167 bytes, 0 underruns
          0 output errors, 0 collisions, 0 interface resets

access-3#show caller timeout
                                Session   Idle      Disconnect
  Line         User             Timeout   Timeout   User in
  tty 53       timeout          -         -         -
  As53         timeout          -         -         -
  Vi1          timeout          00:01:30  00:01:00  00:00:35
access-3#show caller
                                                    Active    Idle
  Line         User             Service             Time      Time
  tty 53       timeout          Async               00:00:45  00:00:27
  As53         timeout          PPP                 00:00:38  00:00:27
  Vi1          timeout          PPP   VDP           00:00:38  00:00:36
!--- User has been idle for 36 seconds and will be disconnected in 24 seconds. Let's !--- ping
the user to see what happens. access-3#ping 10.1.1.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 92/108/132 ms
!--- Now the idle timer has been reset, so we won't disconnect the user for another !--- 58
seconds. access-3#show caller timeout
                                Session   Idle      Disconnect
  Line         User             Timeout   Timeout   User in
  tty 53       timeout          -         -         -
  As53         timeout          -         -         -
```

```
  Vi1          timeout          00:01:30  00:01:00  00:00:58
!--- Ping again to reset the idle timer. access-3#ping 10.1.1.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 96/98/108 ms
!--- But note, the disconnect timer did not go back to 1 minute. The reason is because the !---
absolute timer is going to start soon. access-3#show caller timeout
                                  Session   Idle      Disconnect
  Line         User                Timeout   Timeout   User in
  tty 53       timeout          -         -         -
  As53         timeout          -         -         -
  Vi1          timeout          00:01:30  00:01:00  00:00:24
access-3#show caller user timeout

  User: timeout, line tty 53, service Async
        Active time 00:01:23, Idle time 00:00:11
  Timeouts:            Absolute  Idle      Idle
                                 Session   Exec
      Limits:          -         -         00:10:00
      Disconnect in:   -         -         -
  TTY: Line 53, running PPP on As53
  Location: MICA V.90 modems
  Line: Baud rate (TX/RX) is 115200/115200, no parity, 1 stopbits, 8 databits
  Status: Ready, Active, No Exit Banner, Async Interface Active
          HW PPP Support Active
  Capabilities: No Flush-at-Activation, Hardware Flowcontrol In
                Hardware Flowcontrol Out, Modem Callout, Modem RI is CD
                Line usable as async interface, ARAP Permitted
                Integrated Modem
  Modem State: Ready

  User: timeout, line As53, service PPP
        Active time 00:01:15, Idle time 00:00:11
  Timeouts:            Absolute  Idle
      Limits:          -         -
      Disconnect in:   -         -
  PPP: LCP Open, multilink Closed, CHAP (<- AAA)
  IP: Local 10.1.1.1
  Counts: 45 packets input, 1161 bytes, 0 no buffer
          0 input errors, 0 CRC, 0 frame, 0 overrun
          32 packets output, 897 bytes, 0 underruns
          0 output errors, 0 collisions, 0 interface resets

  User: timeout, line Vi1, service PPP VDP
        Active time 00:01:16, Idle time 00:00:12
  Timeouts:            Absolute  Idle
      Limits:          00:01:30  00:01:00
      Disconnect in:   00:00:13  00:00:47
  PPP: LCP Open, multilink Closed, CHAP (<- none), IPCP, CCP
       Idle timer 60 secs, idle 12 secs
  IP: Local 10.1.1.1, remote 10.1.1.3
      Access list (I/O) is 199/not set
  Counts: 34 packets input, 883 bytes, 0 no buffer
          0 input errors, 0 CRC, 0 frame, 0 overrun
          39 packets output, 547 bytes, 0 underruns
          0 output errors, 0 collisions, 0 interface resets

!--- User is disconnected.
*Mar  4 19:23:47.536: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to down
*Mar  4 19:23:47.536: Vi1 VTEMPLATE: Free vaccess
*Mar  4 19:23:47.540: As53 AAA/ACCT: non-ISDN xmit 50000 recv 28800 hwidb 613307E0 ttynum 53
!--- Send accounting stop record, includes disc-cause 5 (session-timeout) and
```

```
!--- disc-cause-ext 1100 (session-timeout).
*Mar  4 19:23:47.540: AAA/ACCT/NET/STOP User timeout, Port Async53:
         task_id=9 timezone=PST service=ppp protocol=ip addr=10.1.1.3 disc-cause=5
disc-cause-ext=1100
pre-bytes-in=184 pre-bytes-out=330 pre-paks-in=7 pre-paks-out=11 bytes_in=950
bytes_out=567 paks_in=37
paks_out=21 pre-session-time=5 elapsed_time=91 nas-rx-speed=28800 nas-tx-speed=50000
*Mar  4 19:23:47.540: Vi1 AAA/AUTHOR/PER-USER: Event IP_DOWN
*Mar  4 19:23:47.540: Vi1 AAA/AUTHOR/PER-USER: Event LCP_DOWN
!--- Modem hangs up.
*Mar  4 19:23:47.580: Mica Modem(1/28): State Transition to Terminating
*Mar  4 19:23:47.640: Mica Modem(1/28): State Transition to Idle
*Mar  4 19:23:47.640: Mica Modem(1/28): Went onhook
*Mar  4 19:23:47.640: CSM_PROC_IC5_OC6_CONNECTED: CSM_EVENT_MODEM_ONHOOK at slot 1, port 28
*Mar  4 19:23:47.640: VDEV_DEALLOCATE: slot 1 and port 28 is deallocated

*Mar  4 19:23:47.640: ISDN Se0:23: Event: Hangup call to call id 0x3D
 !--- ISDN call is terminated. *Mar 4 19:23:47.640: ISDN Se0:23: TX -> DISCONNECT pd = 8 callref
= 0x8009 *Mar 4 19:23:47.640: Cause i = 0x8090 - Normal call clearing *Mar 4 19:23:47.688: ISDN
Se0:23: RX <- RELEASE pd = 8 callref = 0x09 *Mar 4 19:23:47.696: ISDN Se0:23: TX -> RELEASE_COMP
pd = 8 callref = 0x8009 *Mar 4 19:23:47.744: TAC+: (866083896): received acct response status =
SUCCESS !--- Per-user timeouts are taken off the vaccess interface. *Mar 4 19:23:48.140:
VTEMPLATE: Clean up dirty vaccess queue, size 1 *Mar 4 19:23:48.140: Vi1 VTEMPLATE: Found a
dirty vaccess clone with vtemplate/AAA *Mar 4 19:23:48.140: Vi1 VTEMPLATE: ************ UNCLONE
VACCESS1 ************** *Mar 4 19:23:48.140: Vi1 VTEMPLATE: Unclone to-be-freed command#2
interface Virtual-Access1
default ppp timeout idle 60
default timeout absolute 1 30
end

!--- vaccess interface is cleaned up. *Mar 4 19:23:48.160: Vi1 VTEMPLATE: Set default settings
with no ip address *Mar 4 19:23:48.176: Vi1 VTEMPLATE: Remove cloneblk AAA with vtemplate/AAA
*Mar 4 19:23:48.180: Vi1 VTEMPLATE: ************ UNCLONE VACCESS1 ************** *Mar 4
19:23:48.180: Vi1 VTEMPLATE: Unclone to-be-freed command#15 interface Virtual-Access1 default
multilink max-links 2 default ppp multilink default ppp authentication chap pap ms-chap default
ppp callback accept default compress mppc default peer default ip address pool default default
keepalive default ip nat inside default ip accounting output-packets default ip directed-
broadcast default ip helper-address 172.16.24.118 default ip access-group 199 in default ip
unnumbered Loopback0 default encap ppp default ip address end *Mar 4 19:23:48.264: Vi1
VTEMPLATE: Set default settings with no ip address *Mar 4 19:23:48.284: Vi1 VTEMPLATE: Remove
cloneblk vtemplate with vtemplate/AAA *Mar 4 19:23:48.284: Vi1 VTEMPLATE: Add vaccess to recycle
queue, queue SIZE=1 !--- Here is the call record for the user. Note the disconnect reason is
Session-Timeout !--- (absolute timeout). *Mar 4 19:23:48.300: %CALLRECORD-3-MICA_TERSE_CALL_REC:
DS0 slot/contr/chan=2/0/18, slot/port=1/28, call_id=3D, userid=timeout, ip=10.1.1.3,
calling=(n/a), called=4085703932, std=K56Flx, prot=LAP-M, comp=V.42bis both, init-rx/tx b-
rate=28800/50000, finl-rx/tx b-rate=28800/50000, rbs=0, d-pad=6 dB, retr=0, sq=3, snr=32, rx/tx
chars=1274/1477, bad=4, rx/tx ec=45/61, bad=3, time=118, finl-state=Steady, disc(radius)=Session
Timeout/Session Timeout, disc(modem)=DF03 Tx (host to line) data flushing - OK/Requested by
host/DTR dropped *Mar 4 19:23:48.536: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-
Access1, changed state to down *Mar 4 19:23:49.536: As53 AAA/AUTHOR/PER-USER: Event LCP_DOWN
```

'Llamada asincrónica con perfiles virtuales - la conexión se interrumpe por inactividad'

A continuación, hay una llamada asíncrona con perfiles virtuales. Tiene el mismo nombre de usuario que el ejemplo anterior. El perfil instala un tiempo de espera absoluto de 90 segundos y un tiempo de espera ocioso de 60 segundos. En este ejemplo, dejaremos que la conexión se interrumpa por inactividad. No hay comentarios abajo pero se ha resaltado una salida importante.

```
*Mar  4 19:24:38.768: ISDN Se0:23: RX <-  SETUP pd = 8  callref = 0x0A
*Mar  4 19:24:38.768:         Bearer Capability i = 0x9090A2
```

```
*Mar  4 19:24:38.768:         Channel ID i = 0xA98393
*Mar  4 19:24:38.768:         Called Party Number i = 0xC1, '4085703932'
*Mar  4 19:24:38.772: ISDN Se0:23: TX ->  CALL_PROC pd = 8  callref = 0x800A
*Mar  4 19:24:38.772:         Channel ID i = 0xA98393
*Mar  4 19:24:38.772: ISDN Se0:23: TX ->  ALERTING pd = 8  callref = 0x800A
*Mar  4 19:24:38.772: EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x3E, ces=0x1
   bchan=0x12, event=0x1, cause=0x0

*Mar  4 19:24:38.772: VDEV_ALLOCATE: slot 1 and port 29 is allocated.

*Mar  4 19:24:38.772: EVENT_FROM_ISDN:(003E): DEV_INCALL at slot 1 and port 29

*Mar  4 19:24:38.772: CSM_PROC_IDLE: CSM_EVENT_ISDN_CALL at slot 1, port 29
*Mar  4 19:24:38.772: Mica Modem(1/29): Configure(0x1 = 0x0)
*Mar  4 19:24:38.772: Mica Modem(1/29): Configure(0x23 = 0x0)
*Mar  4 19:24:38.772: Mica Modem(1/29): Call Setup
*Mar  4 19:24:38.908: Mica Modem(1/29): State Transition to Call Setup
*Mar  4 19:24:38.908: Mica Modem(1/29): Went offhook
*Mar  4 19:24:38.908: CSM_PROC_IC1_RING: CSM_EVENT_MODEM_OFFHOOK at slot 1, port 29
*Mar  4 19:24:38.912: ISDN Se0:23: TX ->  CONNECT pd = 8  callref = 0x800A
*Mar  4 19:24:38.972: ISDN Se0:23: RX <-  CONNECT_ACK pd = 8  callref = 0x0A
*Mar  4 19:24:38.976: EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x3E, ces=0x1
   bchan=0x12, event=0x4, cause=0x0

*Mar  4 19:24:38.976: EVENT_FROM_ISDN:(003E): DEV_CONNECTED at slot 1 and port 29

*Mar  4 19:24:38.976: CSM_PROC_IC4_WAIT_FOR_CARRIER: CSM_EVENT_ISDN_CONNECTED at
slot 1, port 29
*Mar  4 19:24:38.976: Mica Modem(1/29): Link Initiate
*Mar  4 19:24:40.060: Mica Modem(1/29): State Transition to Connect
*Mar  4 19:24:45.256: Mica Modem(1/29): State Transition to Link
*Mar  4 19:24:56.796: Mica Modem(1/29): State Transition to Trainup
*Mar  4 19:24:59.996: Mica Modem(1/29): State Transition to EC Negotiating
*Mar  4 19:25:00.532: Mica Modem(1/29): State Transition to Steady State
*Mar  4 19:25:01.340: AAA: parse NAME=tty54 idb TYPE=10 tty=54
*Mar  4 19:25:01.340: AAA: NAME=tty54 flags=0x11 TYPE=4 shelf=0 slot=0
adapter=0 port=54 channel=0
*Mar  4 19:25:01.340: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:25:01.340: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:25:02.544: As54 LCP: Lower layer not up, Fast Starting
*Mar  4 19:25:02.544: As54 PPP: Treating connection as a dedicated line
*Mar  4 19:25:02.544: As54 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:25:04.744: As54 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:25:04.744: As54 CHAP: O CHALLENGE id 1 len 26 from "STACK"
*Mar  4 19:25:06.628: As54 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:25:06.820: As54 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:25:06.820: As54 CHAP: O CHALLENGE id 2 len 26 from "STACK"
*Mar  4 19:25:06.916: As54 CHAP: I RESPONSE id 2 len 30 from "timeout"
*Mar  4 19:25:06.916: AAA: parse NAME=Async54 idb TYPE=10 tty=54
*Mar  4 19:25:06.916: AAA: NAME=Async54 flags=0x11 TYPE=4 shelf=0 slot=0
adapter=0 port=54 channel=0
*Mar  4 19:25:06.916: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:25:06.916: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:25:06.916: RADIUS: ustruct sharecount=1
*Mar  4 19:25:06.916: RADIUS: Initial Transmit Async54 id 1 172.16.24.117:1645,
Access-Request, len 92
*Mar  4 19:25:06.916:         Attribute 4 6 AC101874
*Mar  4 19:25:06.916:         Attribute 5 6 00000036
*Mar  4 19:25:06.916:         Attribute 61 6 00000000
*Mar  4 19:25:06.916:         Attribute 1 11 74696D65
*Mar  4 19:25:06.916:         Attribute 30 12 34303835
*Mar  4 19:25:06.916:         Attribute 3 19 024525C7
```

```
*Mar  4 19:25:06.916:         Attribute 6 6 00000002
*Mar  4 19:25:06.916:         Attribute 7 6 00000001
*Mar  4 19:25:06.924: RADIUS: Received from id 1 172.16.24.117:1645,
Access-Accept, len 50
*Mar  4 19:25:06.924:         Attribute 6 6 00000002
*Mar  4 19:25:06.924:         Attribute 7 6 00000001
*Mar  4 19:25:06.924:         Attribute 8 6 FFFFFFFE
*Mar  4 19:25:06.924:         Attribute 27 6 0000005A
*Mar  4 19:25:06.928:         Attribute 28 6 0000003C
*Mar  4 19:25:06.928: As54 AAA/AUTHOR/LCP: Authorize LCP
*Mar  4 19:25:06.928: AAA/AUTHOR/LCP As54 (2013841092): Port='Async54' list='' service=NET
*Mar  4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) send AV service=ppp
*Mar  4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) send AV protocol=lcp
*Mar  4 19:25:06.928: AAA/AUTHOR/LCP (2013841092) found list "default"
*Mar  4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) METHOD=RADIUS
*Mar  4 19:25:06.928: AAA/AUTHOR (2013841092): Post authorization status = PASS_REPL
*Mar  4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar  4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar  4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar  4 19:25:06.928: AAA/AUTHOR/LCP As54: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60

*Mar  4 19:25:06.928: As54 CHAP: O SUCCESS id 2 len 4
*Mar  4 19:25:06.928: AAA/ACCT/NET/START User timeout, Port Async54, List ""
*Mar  4 19:25:06.928: AAA/ACCT/NET: Found list "default"
*Mar  4 19:25:07.028: Vi1 VTEMPLATE: Reuse Vi1, recycle queue size 0
*Mar  4 19:25:07.028: Vi1 VTEMPLATE: Hardware address 00e0.1e81.636c
*Mar  4 19:25:07.028: Vi1 VTEMPLATE: Has a new cloneblk vtemplate, now it has vtemplate
*Mar  4 19:25:07.028: Vi1 VTEMPLATE: ************* CLONE VACCESS1 *****************
*Mar  4 19:25:07.028: Vi1 VTEMPLATE: Clone from Virtual-Template1
interface Virtual-Access1
default ip address
no ip address
encap ppp
ip unnumbered Loopback0
ip access-group 199 in
ip helper-address 172.16.24.118
no ip directed-broadcast
ip accounting output-packets
ip nat inside
no keepalive
peer default ip address pool default
compress mppc
ppp callback accept
ppp authentication chap pap ms-chap
ppp multilink
multilink max-links 2
end

*Mar  4 19:25:07.092: Vi1 CCP: Re-Syncing history using legacy method
*Mar  4 19:25:07.108: Vi1 VTEMPLATE: Has a new cloneblk AAA, now it has vtemplate/AAA
*Mar  4 19:25:07.108: Vi1 VTEMPLATE: ************* CLONE VACCESS1 *****************
*Mar  4 19:25:07.108: Vi1 VTEMPLATE: Clone from AAA
interface Virtual-Access1
timeout absolute 1 30
ppp timeout idle 60
end

*Mar  4 19:25:07.120: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up
*Mar  4 19:25:07.124: Vi1 PPP: Treating connection as a dedicated line
*Mar  4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM Vi1 (3979277251): Port='Async54' list='' service=NET
```

```
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (3979277251) send AV service=ppp
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (3979277251) send AV protocol=ip
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM (3979277251) found list "default"
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (3979277251) METHOD=RADIUS
*Mar  4 19:25:07.124: RADIUS: Using NAS default peer
*Mar  4 19:25:07.124: RADIUS: Authorize IP address 0.0.0.0
*Mar  4 19:25:07.124: AAA/AUTHOR (3979277251): Post authorization status = PASS_REPL
*Mar  4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: We can start IPCP
*Mar  4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: (0): Can we start CCP?
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM Vi1 (1524934880): Port='Async54' list='' service=NET
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (1524934880) send AV service=ppp
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (1524934880) send AV protocol=ccp
*Mar  4 19:25:07.128: AAA/AUTHOR/FSM (1524934880) found list "default"
*Mar  4 19:25:07.128: AAA/AUTHOR/FSM: Vi1 (1524934880) METHOD=RADIUS
*Mar  4 19:25:07.128: AAA/AUTHOR (1524934880): Post authorization status = PASS_REPL
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: We can start CCP
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: Processing AV service=ppp
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: Succeeded
*Mar  4 19:25:07.236: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's
*Mar  4 19:25:07.236: Vi1 AAA/AUTHOR/FSM: Processing AV service=ppp
*Mar  4 19:25:07.236: Vi1 AAA/AUTHOR/FSM: Succeeded
*Mar  4 19:25:08.120: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up
*Mar  4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 10.1.1.3
*Mar  4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar  4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 10.1.1.3
*Mar  4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 10.1.1.3
*Mar  4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar  4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 10.1.1.3
*Mar  4 19:25:10.316: Vi1 AAA/AUTHOR/IPCP: Start.  Her address 10.1.1.3, we want 10.1.1.3
*Mar  4 19:25:10.316: AAA/AUTHOR/IPCP Vi1 (2714455877): Port='Async54' list='' service=NET
*Mar  4 19:25:10.316: AAA/AUTHOR/IPCP: Vi1 (2714455877) send AV service=ppp
*Mar  4 19:25:10.316: AAA/AUTHOR/IPCP: Vi1 (2714455877) send AV protocol=ip
*Mar  4 19:25:10.316: AAA/AUTHOR/IPCP: Vi1 (2714455877) send AV addr*10.1.1.3


*Mar  4 19:25:10.316: AAA/AUTHOR/IPCP (2714455877) found list "default"
*Mar  4 19:25:10.316: AAA/AUTHOR/IPCP: Vi1 (2714455877) METHOD=RADIUS
*Mar  4 19:25:10.316: RADIUS: Using NAS default peer
*Mar  4 19:25:10.320: RADIUS: Authorize IP address 10.1.1.3
*Mar  4 19:25:10.320: AAA/AUTHOR (2714455877): Post authorization status = PASS_REPL
*Mar  4 19:25:10.320: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:25:10.320: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.3
*Mar  4 19:25:10.320: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:25:10.320: Vi1 AAA/AUTHOR/IPCP: Done.  Her address 10.1.1.3, we want 10.1.1.3
*Mar  4 19:25:10.320: Vi1 AAA/AUTHOR/PER-USER: Event IP_UP
*Mar  4 19:25:10.320: Vi1 AAA/PER-USER: processing author params.

access-3#show caller
                                          Active    Idle
  Line         User               Service       Time      Time
  tty 54       timeout          Async         00:00:17  00:00:01
  As54         timeout          PPP           00:00:10  00:00:01
  Vi1          timeout          PPP   VDP     00:00:10  00:00:08
```

```
access-3#show caller
                                                 Active    Idle
  Line         User               Service       Time      Time
  tty 54       timeout          Async         00:00:27  00:00:11
  As54         timeout          PPP           00:00:20  00:00:11
  Vi1          timeout          PPP   VDP     00:00:20  00:00:18
access-3#show caller user timeout

  User: timeout, line tty 54, service Async
        Active time 00:00:49, Idle time 00:00:34
  Timeouts:            Absolute  Idle      Idle
                                 Session   Exec
      Limits:          -         -         00:10:00
      Disconnect in:   -         -         -
  TTY: Line 54, running PPP on As54
  Location: MICA V.90 modems
  Line: Baud rate (TX/RX) is 115200/115200, no parity, 1 stopbits, 8 databits
  Status: Ready, Active, No Exit Banner, Async Interface Active
          HW PPP Support Active
  Capabilities: No Flush-at-Activation, Hardware Flowcontrol In
                Hardware Flowcontrol Out, Modem Callout, Modem RI is CD
                Line usable as async interface, ARAP Permitted
                Integrated Modem
  Modem State: Ready

  User: timeout, line As54, service PPP
        Active time 00:00:43, Idle time 00:00:34
  Timeouts:            Absolute  Idle
      Limits:          -         -
      Disconnect in:   -         -
  PPP: LCP Open, multilink Closed, CHAP (<- AAA)
  IP: Local 10.1.1.1
  Counts: 35 packets input, 824 bytes, 0 no buffer
          0 input errors, 0 CRC, 0 frame, 0 overrun
          22 packets output, 517 bytes, 0 underruns
          0 output errors, 0 collisions, 0 interface resets

  User: timeout, line Vi1, service PPP VDP
        Active time 00:00:43, Idle time 00:00:41
  Timeouts:            Absolute  Idle
      Limits:          00:01:30  00:01:00
      Disconnect in:   00:00:45  00:00:18
  PPP: LCP Open, multilink Closed, CHAP (<- none), IPCP, CCP
       Idle timer 60 secs, idle 41 secs
  IP: Local 10.1.1.1, remote 10.1.1.3
      Access list (I/O) is 199/not set
  Counts: 24 packets input, 546 bytes, 0 no buffer
          0 input errors, 0 CRC, 0 frame, 0 overrun
          19 packets output, 167 bytes, 0 underruns
          0 output errors, 0 collisions, 0 interface resets

access-3#show caller timeouts
                                  Session   Idle      Disconnect
  Line         User               Timeout   Timeout   User in
  tty 54       timeout          -         -         -
  As54         timeout          -         -         -
  Vi1          timeout          00:01:30  00:01:00  00:00:05

*Mar  4 19:26:10.320: Vi1 PPP: Idle timeout, dropping connection
*Mar  4 19:26:10.320: As54 AAA/ACCT: non-ISDN xmit 50000 recv 28800 hwidb 613360C8 ttynum 54
*Mar  4 19:26:10.320: AAA/ACCT/NET/STOP User timeout, Port Async54:
         task_id=10 timezone=PST service=ppp protocol=ip addr=10.1.1.3 disc-cause=4
disc-cause-ext=1021 pre-bytes-in=184 pre-bytes-out=330 pre-paks-in=7 pre-paks-out=11
bytes_in=613 bytes_out=187 paks_in=27 paks_out=11 pre-session-time=4 elapsed_time=63
```

```
nas-rx-speed=28800 nas-tx-speed=50000
*Mar  4 19:26:10.320: Vi1 AAA/AUTHOR/PER-USER: Event IP_DOWN
*Mar  4 19:26:10.324: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to down
*Mar  4 19:26:10.324: Vi1 VTEMPLATE: Free vaccess
*Mar  4 19:26:10.328: Vi1 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:26:10.376: Mica Modem(1/29): State Transition to Terminating
*Mar  4 19:26:10.436: Mica Modem(1/29): State Transition to Idle
*Mar  4 19:26:10.436: Mica Modem(1/29): Went onhook
*Mar  4 19:26:10.436: CSM_PROC_IC5_OC6_CONNECTED: CSM_EVENT_MODEM_ONHOOK at slot 1,
port 29
*Mar  4 19:26:10.440: VDEV_DEALLOCATE: slot 1 and port 29 is deallocated

*Mar  4 19:26:10.440: ISDN Se0:23: Event: Hangup call to call id 0x3E
*Mar  4 19:26:10.440: ISDN Se0:23: TX ->  DISCONNECT pd = 8  callref = 0x800A
*Mar  4 19:26:10.440:         Cause i = 0x8090 - Normal call clearing
*Mar  4 19:26:10.488: ISDN Se0:23: RX <-  RELEASE pd = 8  callref = 0x0A
*Mar  4 19:26:10.496: ISDN Se0:23: TX ->  RELEASE_COMP pd = 8  callref = 0x800A
*Mar  4 19:26:10.528: TAC+: (2047544826): received acct response status = SUCCESS
*Mar  4 19:26:11.180: VTEMPLATE: Clean up dirty vaccess queue, size 1
*Mar  4 19:26:11.180: Vi1 VTEMPLATE: Found a dirty vaccess clone with vtemplate/AAA
*Mar  4 19:26:11.180: Vi1 VTEMPLATE: ************ UNCLONE VACCESS1 **************
*Mar  4 19:26:11.180: Vi1 VTEMPLATE: Unclone to-be-freed command#2
interface Virtual-Access1
default ppp timeout idle 60
default timeout absolute 1 30
end

*Mar  4 19:26:11.200: Vi1 VTEMPLATE: Set default settings with no ip address
*Mar  4 19:26:11.216: Vi1 VTEMPLATE: Remove cloneblk AAA with vtemplate/AAA
*Mar  4 19:26:11.216: Vi1 VTEMPLATE: ************ UNCLONE VACCESS1 **************
*Mar  4 19:26:11.216: Vi1 VTEMPLATE: Unclone to-be-freed command#15
interface Virtual-Access1
default multilink max-links 2
default ppp multilink
default ppp authentication chap pap ms-chap
default ppp callback accept
default compress mppc
default peer default ip address pool default
default keepalive
default ip nat inside
default ip accounting output-packets
default ip directed-broadcast
default ip helper-address 172.16.24.118
default ip access-group 199 in
default ip unnumbered Loopback0
default encap ppp
default ip address
end

*Mar  4 19:26:11.304: Vi1 VTEMPLATE: Set default settings with no ip address
*Mar  4 19:26:11.324: Vi1 VTEMPLATE: Remove cloneblk vtemplate with vtemplate/AAA
*Mar  4 19:26:11.324: Vi1 VTEMPLATE: Add vaccess to recycle queue, queue SIZE=1
*Mar  4 19:26:11.324: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to down
*Mar  4 19:26:11.460: Mica Modem(1/29): State Transition to Terminating
*Mar  4 19:26:11.520: Mica Modem(1/29): State Transition to Idle
*Mar  4 19:26:12.200: %CALLRECORD-3-MICA_TERSE_CALL_REC: DS0 slot/contr/chan=2/0/18,
slot/port=1/29, call_id=3E, userid=timeout, ip=10.1.1.3, calling=(n/a), called=4085703932,
std=K56Flx, prot=LAP-M, comp=V.42bis both, init-rx/tx b-rate=28800/50000, finl-rx/tx
b-rate=28800/50000, rbs=0, d-pad=6 dB, retr=0, sq=3, snr=34, rx/tx chars=918/1138, bad=5,
rx/tx ec=35/47, bad=0, time=90, finl-state=Steady, disc(radius)=Idle Timeout/Idle Timeout,
disc(modem)=DF03 Tx (host to line) data flushing - OK/Requested by host/DTR dropped
*Mar  4 19:26:12.320: As54 AAA/AUTHOR/PER-USER: Event LCP_DOWN
```

Llamada asíncrona sin perfiles virtuales

A continuación, hay una llamada asíncrona sin perfiles virtuales activos. Observe que se usa el comando dialer idle-timeout en vez del comando ppp timeout idle, ya que no estamos usando perfiles virtuales y no hay interfaz de acceso virtual. También nos verá crear el comando **per-user timeout** y, al mismo tiempo, la **no** versión de los comandos. Los comandos **per-user timer** se instalan inmediatamente, mientras que la versión **no** de los comandos se envía a la interfaz para que se procese cuando el usuario se desconecta.

```
*Mar  4 19:30:28.420: ISDN Se0:23: RX <-  SETUP pd = 8  callref = 0x06
*Mar  4 19:30:28.420:         Bearer Capability i = 0x9090A2
*Mar  4 19:30:28.420:         Channel ID i = 0xA98393
*Mar  4 19:30:28.420:         Called Party Number i = 0xC1, '4085703932'
*Mar  4 19:30:28.420: ISDN Se0:23: TX ->  CALL_PROC pd = 8  callref = 0x8006
*Mar  4 19:30:28.420:         Channel ID i = 0xA98393
*Mar  4 19:30:28.424: ISDN Se0:23: TX ->  ALERTING pd = 8  callref = 0x8006
*Mar  4 19:30:28.424: EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x40, ces=0x1
   bchan=0x12, event=0x1, cause=0x0

*Mar  4 19:30:28.424: VDEV_ALLOCATE: slot 1 and port 2 is allocated.

*Mar  4 19:30:28.424: EVENT_FROM_ISDN:(0040): DEV_INCALL at slot 1 and port 2

*Mar  4 19:30:28.424: CSM_PROC_IDLE: CSM_EVENT_ISDN_CALL at slot 1, port 2
*Mar  4 19:30:28.424: Mica Modem(1/2): Configure(0x1 = 0x0)
*Mar  4 19:30:28.424: Mica Modem(1/2): Configure(0x23 = 0x0)
*Mar  4 19:30:28.424: Mica Modem(1/2): Call Setup
*Mar  4 19:30:28.552: Mica Modem(1/2): State Transition to Call Setup
*Mar  4 19:30:28.552: Mica Modem(1/2): Went offhook
*Mar  4 19:30:28.552: CSM_PROC_IC1_RING: CSM_EVENT_MODEM_OFFHOOK at slot 1, port 2
*Mar  4 19:30:28.552: ISDN Se0:23: TX ->  CONNECT pd = 8  callref = 0x8006
*Mar  4 19:30:28.604: ISDN Se0:23: RX <-  CONNECT_ACK pd = 8  callref = 0x06
*Mar  4 19:30:28.604: EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x40, ces=0x1
   bchan=0x12, event=0x4, cause=0x0

*Mar  4 19:30:28.604: EVENT_FROM_ISDN:(0040): DEV_CONNECTED at slot 1 and port 2

*Mar  4 19:30:28.604: CSM_PROC_IC4_WAIT_FOR_CARRIER: CSM_EVENT_ISDN_CONNECTED
at slot 1, port 2
*Mar  4 19:30:28.604: Mica Modem(1/2): Link Initiate
*Mar  4 19:30:29.692: Mica Modem(1/2): State Transition to Connect
*Mar  4 19:30:34.888: Mica Modem(1/2): State Transition to Link
*Mar  4 19:30:46.408: Mica Modem(1/2): State Transition to Trainup
*Mar  4 19:30:49.612: Mica Modem(1/2): State Transition to EC Negotiating
*Mar  4 19:30:50.156: Mica Modem(1/2): State Transition to Steady State
*Mar  4 19:30:50.592: AAA: parse NAME=tty27 idb TYPE=10 tty=27
*Mar  4 19:30:50.592: AAA: NAME=tty27 flags=0x11 TYPE=4 shelf=0 slot=0
adapter=0 port=27 channel=0
*Mar  4 19:30:50.592: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:30:50.592: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:30:51.792: As27 LCP: Lower layer not up, Fast Starting
*Mar  4 19:30:51.792: As27 PPP: Treating connection as a callin
*Mar  4 19:30:51.792: As27 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:30:57.468: As27 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:30:57.468: As27 CHAP: O CHALLENGE id 1 len 26 from "STACK"
*Mar  4 19:30:57.564: As27 CHAP: I RESPONSE id 1 len 30 from "timeout"
*Mar  4 19:30:57.564: AAA: parse NAME=Async27 idb TYPE=10 tty=27
*Mar  4 19:30:57.564: AAA: NAME=Async27 flags=0x11 TYPE=4 shelf=0 slot=0
```

```
adapter=0 port=27 channel=0
*Mar  4 19:30:57.564: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:30:57.564: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:30:57.564: RADIUS: ustruct sharecount=1
*Mar  4 19:30:57.564: RADIUS: Initial Transmit Async27 id 3 172.16.24.117:1645,
Access-Request, len 92
*Mar  4 19:30:57.564:         Attribute 4 6 AC101874
*Mar  4 19:30:57.564:         Attribute 5 6 0000001B
*Mar  4 19:30:57.564:         Attribute 61 6 00000000
*Mar  4 19:30:57.564:         Attribute 1 11 74696D65
*Mar  4 19:30:57.564:         Attribute 30 12 34303835
*Mar  4 19:30:57.564:         Attribute 3 19 01E5C3F6
*Mar  4 19:30:57.564:         Attribute 6 6 00000002
*Mar  4 19:30:57.564:         Attribute 7 6 00000001
*Mar  4 19:30:57.572: RADIUS: Received from id 3 172.16.24.117:1645,
Access-Accept, len 50
*Mar  4 19:30:57.572:         Attribute 6 6 00000002
*Mar  4 19:30:57.572:         Attribute 7 6 00000001
*Mar  4 19:30:57.572:         Attribute 8 6 FFFFFFFE
*Mar  4 19:30:57.572:         Attribute 27 6 0000005A
*Mar  4 19:30:57.572:         Attribute 28 6 0000003C
*Mar  4 19:30:57.572: As27 AAA/AUTHOR/LCP: Authorize LCP
*Mar  4 19:30:57.572: AAA/AUTHOR/LCP As27 (1969884263): Port='Async27' list=''
service=NET
*Mar  4 19:30:57.572: AAA/AUTHOR/LCP: As27 (1969884263) send AV service=ppp
*Mar  4 19:30:57.572: AAA/AUTHOR/LCP: As27 (1969884263) send AV protocol=lcp
*Mar  4 19:30:57.572: AAA/AUTHOR/LCP (1969884263) found list "default"
*Mar  4 19:30:57.572: AAA/AUTHOR/LCP: As27 (1969884263) METHOD=RADIUS
*Mar  4 19:30:57.572: AAA/AUTHOR (1969884263): Post authorization status = PASS_REPL
*Mar  4 19:30:57.572: As27 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar  4 19:30:57.572: As27 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar  4 19:30:57.572: As27 AAA/AUTHOR: Parse 'interface Async27'
*Mar  4 19:30:57.576: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar  4 19:30:57.576: As27 AAA/AUTHOR: Parse 'timeout absolute 1 30'
*Mar  4 19:30:57.580: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar  4 19:30:57.580: As27 AAA/AUTHOR: enqueue peruser LCP txt=interface Async27
no timeout absolute

*Mar  4 19:30:57.580: As27 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar  4 19:30:57.580: As27 AAA/AUTHOR: Parse 'interface Async27'
*Mar  4 19:30:57.584: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar  4 19:30:57.584: As27 AAA/AUTHOR: Parse 'dialer idle-timeout 60'
*Mar  4 19:30:57.588: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar  4 19:30:57.588: As27 AAA/AUTHOR: enqueue peruser LCP txt=interface Async27
no dialer idle-timeout

*Mar  4 19:30:57.588: As27 CHAP: O SUCCESS id 1 len 4
*Mar  4 19:30:57.588: AAA/ACCT/NET/START User timeout, Port Async27, List ""
*Mar  4 19:30:57.588: AAA/ACCT/NET: Found list "default"
*Mar  4 19:30:57.692: As27 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar  4 19:30:57.692: AAA/AUTHOR/FSM As27 (2088523207): Port='Async27' list=''
service=NET
*Mar  4 19:30:57.692: AAA/AUTHOR/FSM: As27 (2088523207) send AV service=ppp
*Mar  4 19:30:57.692: AAA/AUTHOR/FSM: As27 (2088523207) send AV protocol=ip
*Mar  4 19:30:57.692: AAA/AUTHOR/FSM (2088523207) found list "default"
*Mar  4 19:30:57.692: AAA/AUTHOR/FSM: As27 (2088523207) METHOD=RADIUS
*Mar  4 19:30:57.692: RADIUS: Using NAS default peer
*Mar  4 19:30:57.692: RADIUS: Authorize IP address 10.1.1.6
*Mar  4 19:30:57.692: AAA/AUTHOR (2088523207): Post authorization status = PASS_REPL
*Mar  4 19:30:57.692: As27 AAA/AUTHOR/FSM: We can start IPCP
*Mar  4 19:30:57.784: As27 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
```

```
*Mar  4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
*Mar  4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
*Mar  4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:31:00.888: As27 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Start.  Her address 10.1.1.6, we want 10.1.1.6
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Done.  Her address 10.1.1.6, we want 10.1.1.6
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/PER-USER: Event IP_UP
*Mar  4 19:31:00.984: As27 AAA/PER-USER: processing author params.

access-3#show caller
                                               Active    Idle
  Line         User               Service       Time      Time
  tty 27       timeout          Async         00:00:23  00:00:04
  As27         timeout          PPP           00:00:22  00:00:20
access-3#show caller user timeout

  User: timeout, line tty 27, service Async
        Active time 00:00:28, Idle time 00:00:08
  Timeouts:            Absolute  Idle      Idle
                                 Session   Exec
      Limits:          -         -         00:10:00
      Disconnect in:   -         -         -
  TTY: Line 27, running PPP on As27
  Location: MICA V.90 modems
  Line: Baud rate (TX/RX) is 115200/115200, no parity, 1 stopbits, 8 databits
  Status: Ready, Active, No Exit Banner, Async Interface Active
          HW PPP Support Active
  Capabilities: No Flush-at-Activation, Hardware Flowcontrol In
                Hardware Flowcontrol Out, Modem Callout, Modem RI is CD
                Line usable as async interface, ARAP Permitted
                Integrated Modem
  Modem State: Ready

  User: timeout, line As27, service PPP
        Active time 00:00:27, Idle time 00:00:25
  Timeouts:            Absolute  Idle
      Limits:          00:01:30  00:01:00
      Disconnect in:   00:01:09  00:00:34
  PPP: LCP Open, multilink Closed, CHAP (<- AAA), IPCP
  Dialer: Connected, inbound
          Idle timer 60 secs, idle 25 secs
          Type is IN-BAND ASYNC, group Async27
  IP: Local 10.1.1.1, remote 10.1.1.6
  Counts: 31 packets input, 1642 bytes, 0 no buffer
          0 input errors, 0 CRC, 0 frame, 0 overrun
          15 packets output, 347 bytes, 0 underruns
          0 output errors, 0 collisions, 0 interface resets

access-3#show caller timeouts
                                  Session   Idle      Disconnect
  Line         User               Timeout   Timeout   User in
  tty 27       timeout          -         -         -
  As27         timeout          00:01:30  00:01:00  00:00:22
```

```
access-3#show caller timeouts
                                  Session   Idle      Disconnect
  Line         User                 Timeout   Timeout   User in
  tty 27       timeout            -         -         -
  As27         timeout           00:01:30  00:01:00  00:00:07
access-3#
*Mar  4 19:31:53.824: Mica Modem(1/2): State Transition to Terminating
*Mar  4 19:31:53.884: Mica Modem(1/2): State Transition to Idle
*Mar  4 19:31:53.884: Mica Modem(1/2): Went onhook
*Mar  4 19:31:53.884: CSM_PROC_IC5_OC6_CONNECTED: CSM_EVENT_MODEM_ONHOOK at slot 1, port 2
*Mar  4 19:31:53.884: VDEV_DEALLOCATE: slot 1 and port 2 is deallocated

*Mar  4 19:31:53.888: ISDN Se0:23: Event: Hangup call to call id 0x40
*Mar  4 19:31:53.888: ISDN Se0:23: TX ->  DISCONNECT pd = 8  callref = 0x8006
*Mar  4 19:31:53.888:         Cause i = 0x8090 - Normal call clearing
*Mar  4 19:31:53.940: ISDN Se0:23: RX <-  RELEASE pd = 8  callref = 0x06
*Mar  4 19:31:53.952: ISDN Se0:23: TX ->  RELEASE_COMP pd = 8  callref = 0x8006
*Mar  4 19:31:55.792: As27 AAA/ACCT: non-ISDN xmit 50000 recv 28800 hwidb 611CEBC0 ttynum 27
*Mar  4 19:31:55.792: AAA/ACCT/NET/STOP User timeout, Port Async27:
         task_id=12 timezone=PST service=ppp protocol=ip addr=10.1.1.6 disc-cause=4
disc-cause-ext=1021 pre-bytes-in=135 pre-bytes-out=176 pre-paks-in=5 pre-paks-out=6
bytes_in=1480 bytes_out=171 paks_in=25 paks_out=9 pre-session-time=6 elapsed_time=58
nas-rx-speed=28800 nas-tx-speed=50000
*Mar  4 19:31:55.792: As27 AAA/AUTHOR/PER-USER: Event IP_DOWN
*Mar  4 19:31:55.792: As27 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:31:55.792: As27 AAA/AUTHOR: down_event: peruser LCP txt=interface Async27
no timeout absolute

*Mar  4 19:31:55.796: As27 AAA/AUTHOR: Parse 'interface Async27'
*Mar  4 19:31:55.800: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar  4 19:31:55.800: As27 AAA/AUTHOR: Parse 'no timeout absolute'
*Mar  4 19:31:55.804: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar  4 19:31:55.804: As27 AAA/AUTHOR: free peruser LCP txt=interface Async27
no timeout absolute

*Mar  4 19:31:55.804: As27 AAA/AUTHOR: down_event: peruser LCP txt=interface Async27
no dialer idle-timeout

*Mar  4 19:31:55.804: As27 AAA/AUTHOR: Parse 'interface Async27'
*Mar  4 19:31:55.808: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar  4 19:31:55.808: As27 AAA/AUTHOR: Parse 'no dialer idle-timeout'
*Mar  4 19:31:55.812: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar  4 19:31:55.812: As27 AAA/AUTHOR: free peruser LCP txt=interface Async27
no dialer idle-timeout

*Mar  4 19:31:56.016: TAC+: (3633056702): received acct response status = SUCCESS
*Mar  4 19:32:00.308: %CALLRECORD-3-MICA_TERSE_CALL_REC: DS0 slot/contr/chan=2/0/18,
slot/port=1/2, call_id=40, userid=timeout, ip=10.1.1.6, calling=(n/a), called=4085703932,
std=K56Flx, prot=LAP-M, comp=V.42bis both, init-rx/tx b-rate=28800/50000, finl-rx/tx
b-rate=28800/50000, rbs=0, d-pad=6 dB, retr=0, sq=3, snr=28, rx/tx chars=1727/995, bad=2,
rx/tx ec=31/36, bad=0, time=84, finl-state=Steady, disc(radius)=Idle Timeout/Idle Timeout,
disc(modem)=DF03 Tx (host to line) data flushing - OK/Requested by host/DTR dropped
```

Llamada ISDN con links múltiples de un solo canal sin perfiles virtuales

A continuación se muestra una llamada ISDN multilink sin perfiles virtuales habilitados. Dado que una llamada multilink crea una interfaz de acceso virtual, puede ser instalada con facilidad.

```
*Mar  4 19:41:12.208: ISDN Se0:23: RX <-  SETUP pd = 8  callref = 0x08
*Mar  4 19:41:12.212:         Bearer Capability i = 0x8890
*Mar  4 19:41:12.212:         Channel ID i = 0xA98393
*Mar  4 19:41:12.212:         Calling Party Number i = '!', 0x80, '4085551200'
```

```
*Mar  4 19:41:12.212:         Called Party Number i = 0xA1, '4085703930'
*Mar  4 19:41:12.212: ISDN Se0:23: TX ->  CALL_PROC pd = 8  callref = 0x8008
*Mar  4 19:41:12.212:         Channel ID i = 0xA98393
*Mar  4 19:41:12.224: ISDN Se0:23: TX ->  CONNECT pd = 8  callref = 0x8008
*Mar  4 19:41:12.224:         Channel ID i = 0xA98393
*Mar  4 19:41:12.296: ISDN Se0:23: RX <-  CONNECT_ACK pd = 8  callref = 0x08
*Mar  4 19:41:12.536: Se0:18 PPP: Treating connection as a callin
*Mar  4 19:41:12.536: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:41:14.536: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:41:14.552: Se0:18 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:41:14.552: Se0:18 CHAP: O CHALLENGE id 1 len 26 from "STACK"
*Mar  4 19:41:14.584: Se0:18 CHAP: I RESPONSE id 1 len 30 from "timeout"
*Mar  4 19:41:14.964: Se0:18 CHAP: I RESPONSE id 1 len 30 from "timeout"
*Mar  4 19:41:14.964: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:41:14.964: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:41:14.964: AAA: parse NAME= idb TYPE=-1 tty=-1
*Mar  4 19:41:14.964: RADIUS: ustruct sharecount=1
*Mar  4 19:41:14.964: RADIUS: Initial Transmit Serial0:18 id 4 172.16.24.117:1645,
Access-Request, len 104
*Mar  4 19:41:14.964:         Attribute 4 6 AC101874
*Mar  4 19:41:14.964:         Attribute 5 6 00004E32
*Mar  4 19:41:14.964:         Attribute 61 6 00000002
*Mar  4 19:41:14.964:         Attribute 1 11 74696D65
*Mar  4 19:41:14.964:         Attribute 30 12 34303835
*Mar  4 19:41:14.964:         Attribute 31 12 34303835
*Mar  4 19:41:14.964:         Attribute 3 19 012C4E14
*Mar  4 19:41:14.964:         Attribute 6 6 00000002
*Mar  4 19:41:14.964:         Attribute 7 6 00000001
*Mar  4 19:41:14.972: RADIUS: Received from id 4 172.16.24.117:1645, Access-Accept, len 50
*Mar  4 19:41:14.972:         Attribute 6 6 00000002
*Mar  4 19:41:14.972:         Attribute 7 6 00000001
*Mar  4 19:41:14.972:         Attribute 8 6 FFFFFFFE
*Mar  4 19:41:14.972:         Attribute 27 6 0000005A
*Mar  4 19:41:14.972:         Attribute 28 6 0000003C
*Mar  4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Authorize LCP
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP Se0:18 (4039479425): Port='Serial0:18' list=''
service=NET
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) send AV service=ppp
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) send AV protocol=lcp
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP (4039479425) found list "default"
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) METHOD=RADIUS
*Mar  4 19:41:14.976: AAA/AUTHOR (4039479425): Post authorization status = PASS_REPL
*Mar  4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar  4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar  4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP Se0:18: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60

*Mar  4 19:41:14.976: Se0:18 CHAP: O SUCCESS id 1 len 4
*Mar  4 19:41:14.976: AAA/ACCT/NET/START User timeout, Port Serial0:18, List ""
*Mar  4 19:41:14.976: AAA/ACCT/NET: Found list "default"
*Mar  4 19:41:14.976: AAA/AUTHOR/MLP Se0:18 (1966034416): Port='Serial0:18' list=''
service=NET
*Mar  4 19:41:14.976: AAA/AUTHOR/MLP: Se0:18 (1966034416) send AV service=ppp
*Mar  4 19:41:14.976: AAA/AUTHOR/MLP: Se0:18 (1966034416) send AV protocol=multilink
*Mar  4 19:41:14.976: AAA/AUTHOR/MLP (1966034416) found list "default"
*Mar  4 19:41:14.976: AAA/AUTHOR/MLP: Se0:18 (1966034416) METHOD=RADIUS
*Mar  4 19:41:14.976: AAA/AUTHOR (1966034416): Post authorization status = PASS_REPL
*Mar  4 19:41:14.976: Vi1 VTEMPLATE: Reuse Vi1, recycle queue size 0
*Mar  4 19:41:14.980: Vi1 VTEMPLATE: Hardware address 00e0.1e81.636c
*Mar  4 19:41:14.980: Vi1 VTEMPLATE: Has a new cloneblk dialer, now it has dialer
*Mar  4 19:41:14.980: Vi1 VTEMPLATE: Has a new cloneblk AAA, now it has dialer/AAA
```

```
*Mar  4 19:41:14.980: Vi1 VTEMPLATE: ************* CLONE VACCESS1 *****************
*Mar  4 19:41:14.980: Vi1 VTEMPLATE: Clone from AAA
interface Virtual-Access1
timeout absolute 1 30
ppp timeout idle 60
end

*Mar  4 19:41:14.996: Vi1 PPP: Treating connection as a callin
*Mar  4 19:41:14.996: AAA/AUTHOR/MLP Vi1: Processing AV service=ppp
*Mar  4 19:41:15.000: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar  4 19:41:15.000: AAA/AUTHOR/FSM Vi1 (921779905): Port='Serial0:18' list='' service=NET
*Mar  4 19:41:15.000: AAA/AUTHOR/FSM: Vi1 (921779905) send AV service=ppp
*Mar  4 19:41:15.000: AAA/AUTHOR/FSM: Vi1 (921779905) send AV protocol=ip
*Mar  4 19:41:15.000: AAA/AUTHOR/FSM (921779905) found list "default"
*Mar  4 19:41:15.000: AAA/AUTHOR/FSM: Vi1 (921779905) METHOD=RADIUS
*Mar  4 19:41:15.000: RADIUS: Using NAS default peer
*Mar  4 19:41:15.000: RADIUS: Authorize IP address 0.0.0.0
*Mar  4 19:41:15.000: AAA/AUTHOR (921779905): Post authorization status = PASS_REPL
*Mar  4 19:41:15.000: Vi1 AAA/AUTHOR/FSM: We can start IPCP
*Mar  4 19:41:15.000: Vi1 AAA/AUTHOR/FSM: (0): Can we start CDPCP?
*Mar  4 19:41:15.000: AAA/AUTHOR/FSM Vi1 (3065122210): Port='Serial0:18' list=''
service=NET
*Mar  4 19:41:15.000: AAA/AUTHOR/FSM: Vi1 (3065122210) send AV service=ppp
*Mar  4 19:41:15.000: AAA/AUTHOR/FSM: Vi1 (3065122210) send AV protocol=cdp
*Mar  4 19:41:15.000: AAA/AUTHOR/FSM (3065122210) found list "default"
*Mar  4 19:41:15.000: AAA/AUTHOR/FSM: Vi1 (3065122210) METHOD=RADIUS
*Mar  4 19:41:15.000: AAA/AUTHOR (3065122210): Post authorization status = PASS_REPL
*Mar  4 19:41:15.000: Vi1 AAA/AUTHOR/FSM: We can start CDPCP

access-3#show caller
                                              Active    Idle
  Line         User               Service       Time      Time
  Se0:18       timeout          PPP           00:00:19  00:00:00
  Vi1          timeout          PPP   Bundle  00:00:19  00:00:20
access-3#show caller user timeout

  User: timeout, line Se0:18, service PPP
        Active time 00:00:25, Idle time 00:00:00
  Timeouts:            Absolute  Idle
      Limits:          -         -
      Disconnect in:   -         -
  PPP: LCP Open, multilink Open, CHAP (<- AAA)
  Dialer: Connected to 4085551200, inbound
          Type is ISDN, group Serial0:23
  IP: Local 10.1.1.1
      Access list (I/O) is 199/not set
  Bundle: Member of timeout/timeout, last input 00:00:00
  Counts: 13 packets input, 279 bytes, 0 no buffer
          11 input errors, 2 CRC, 3 frame, 0 overrun
          23 packets output, 431 bytes, 0 underruns
          0 output errors, 0 collisions, 40 interface resets

  User: timeout, line Vi1, service PPP Bundle
        Active time 00:00:25, Idle time 00:00:26
  Timeouts:            Absolute  Idle
      Limits:          00:01:30  00:01:00
      Disconnect in:   00:01:04  00:00:33
  PPP: LCP Open, multilink Open
       Idle timer 60 secs, idle 26 secs
  Dialer: Connected to 4085551200, inbound
          Type is IN-BAND SYNC, group Serial0:23
  IP: Local 10.1.1.1
      Access list (I/O) is 199/not set
  Bundle: First link of timeout/timeout, 1 link, last input 00:00:27
```

```
  Counts: 0 packets input, 0 bytes, 0 no buffer
          0 input errors, 0 CRC, 0 frame, 0 overrun
          13 packets output, 236 bytes, 0 underruns
          0 output errors, 0 collisions, 0 interface resets

access-3#show caller timeout
                                  Session   Idle      Disconnect
  Line          User              Timeout   Timeout   User in
  Se0:18        timeout          -         -         -
  Vi1           timeout          00:01:30  00:01:00  00:00:30
access-3#
*Mar  4 19:42:14.996: Vi1 PPP: Idle timeout, dropping connection
*Mar  4 19:42:14.996: Vi1 VTEMPLATE: Free vaccess
*Mar  4 19:42:14.996: Se0:18 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:42:15.000: Vi1 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:42:15.004: Se0:18 AAA/ACCT: ISDN xmit 64000 recv 64000 hwidb 612048BC
*Mar  4 19:42:15.004: AAA/ACCT/NET/STOP User timeout, Port Serial0:18:
         task_id=13 timezone=PST service=ppp mlp-links-max=1 mlp-links-current=1
mlp-sess-id=0 disc-cause=18 disc-cause-ext=1046 pre-bytes-in=125 pre-bytes-out=99
pre-paks-in=4 pre-paks-out=4 bytes_in=228 bytes_out=436 paks_in=15 paks_out=26
pre-session-time=3 elapsed_time=60 nas-rx-speed=64000 nas-tx-speed=64000
*Mar  4 19:42:15.008: ISDN Se0:23: TX ->  DISCONNECT pd = 8  callref = 0x8008
*Mar  4 19:42:15.008:         Cause i = 0x8090 - Normal call clearing
*Mar  4 19:42:15.060: ISDN Se0:23: RX <-  RELEASE pd = 8  callref = 0x08
*Mar  4 19:42:15.072: ISDN Se0:23: TX ->  RELEASE_COMP pd = 8  callref = 0x8008
*Mar  4 19:42:15.212: TAC+: (2571416724): received acct response status = SUCCESS
*Mar  4 19:42:15.500: VTEMPLATE: Clean up dirty vaccess queue, size 1
*Mar  4 19:42:15.500: Vi1 VTEMPLATE: Found a dirty vaccess clone with dialer/AAA
*Mar  4 19:42:15.500: Vi1 VTEMPLATE: ************ UNCLONE VACCESS1 **************
*Mar  4 19:42:15.500: Vi1 VTEMPLATE: Unclone to-be-freed command#2
interface Virtual-Access1
default ppp timeout idle 60
default timeout absolute 1 30
end

*Mar  4 19:42:15.516: Vi1 VTEMPLATE: Set default settings with no ip address
*Mar  4 19:42:15.536: Vi1 VTEMPLATE: Remove cloneblk AAA with dialer/AAA
*Mar  4 19:42:15.536: Vi1 VTEMPLATE: Remove cloneblk dialer with dialer/AAA
*Mar  4 19:42:15.536: Vi1 VTEMPLATE: Add vaccess to recycle queue, queue SIZE=1
```

Llamada ISDN sin links múltiples de un solo canal sin perfiles virtuales

A continuación, hay una llamada asíncrona sin perfiles virtuales activos. En este ejemplo, estamos ejecutando Cisco IOS 11.3(8.2)AA para que estos temporizadores se puedan instalar correctamente. Sin embargo, tenga en cuenta que no se crearon comandos de configuración para causar esto; los temporizadores se establecieron internamente en el código.

```
*Mar  4 19:43:00.404: ISDN Se0:23: RX <-  SETUP pd = 8  callref = 0x0E
*Mar  4 19:43:00.404:         Bearer Capability i = 0x8890
*Mar  4 19:43:00.404:         Channel ID i = 0xA98393
*Mar  4 19:43:00.404:         Calling Party Number i = '!', 0x80, '4085551200'
*Mar  4 19:43:00.404:         Called Party Number i = 0xA1, '4085703930'
*Mar  4 19:43:00.404: ISDN Se0:23: TX ->  CALL_PROC pd = 8  callref = 0x800E
*Mar  4 19:43:00.408:         Channel ID i = 0xA98393
*Mar  4 19:43:00.416: ISDN Se0:23: TX ->  CONNECT pd = 8  callref = 0x800E
*Mar  4 19:43:00.416:         Channel ID i = 0xA98393
*Mar  4 19:43:00.488: ISDN Se0:23: RX <-  CONNECT_ACK pd = 8  callref = 0x0E
*Mar  4 19:43:00.720: Se0:18 PPP: Treating connection as a callin
*Mar  4 19:43:00.720: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:43:02.744: Se0:18 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:43:02.744: Se0:18 CHAP: O CHALLENGE id 2 len 26 from "STACK"
```

```
*Mar  4 19:43:02.776: Se0:18 CHAP: I RESPONSE id 2 len 30 from "timeout"
*Mar  4 19:43:02.776: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:43:02.776: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:43:02.776: AAA: parse NAME= idb TYPE=-1 tty=-1
*Mar  4 19:43:02.780: RADIUS: ustruct sharecount=1
*Mar  4 19:43:02.780: RADIUS: Initial Transmit Serial0:18 id 5 172.16.24.117:1645,
Access-Request, len 104
*Mar  4 19:43:02.780:         Attribute 4 6 AC101874
*Mar  4 19:43:02.780:         Attribute 5 6 00004E32
*Mar  4 19:43:02.780:         Attribute 61 6 00000002
*Mar  4 19:43:02.780:         Attribute 1 11 74696D65
*Mar  4 19:43:02.780:         Attribute 30 12 34303835
*Mar  4 19:43:02.780:         Attribute 31 12 34303835
*Mar  4 19:43:02.780:         Attribute 3 19 02AE5572
*Mar  4 19:43:02.780:         Attribute 6 6 00000002
*Mar  4 19:43:02.780:         Attribute 7 6 00000001
*Mar  4 19:43:02.784: RADIUS: Received from id 5 172.16.24.117:1645, Access-Accept, len 50
*Mar  4 19:43:02.784:         Attribute 6 6 00000002
*Mar  4 19:43:02.784:         Attribute 7 6 00000001
*Mar  4 19:43:02.784:         Attribute 8 6 FFFFFFFE
*Mar  4 19:43:02.784:         Attribute 27 6 0000005A
*Mar  4 19:43:02.784:         Attribute 28 6 0000003C
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Authorize LCP
*Mar  4 19:43:02.788: AAA/AUTHOR/LCP Se0:18 (900316608): Port='Serial0:18' list=''
service=NET
*Mar  4 19:43:02.788: AAA/AUTHOR/LCP: Se0:18 (900316608) send AV service=ppp
*Mar  4 19:43:02.788: AAA/AUTHOR/LCP: Se0:18 (900316608) send AV protocol=lcp
*Mar  4 19:43:02.788: AAA/AUTHOR/LCP (900316608) found list "default"
*Mar  4 19:43:02.788: AAA/AUTHOR/LCP: Se0:18 (900316608) METHOD=RADIUS
*Mar  4 19:43:02.788: AAA/AUTHOR (900316608): Post authorization status = PASS_REPL
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar  4 19:43:02.788: Se0:18 CHAP: O SUCCESS id 2 len 4
*Mar  4 19:43:02.788: AAA/ACCT/NET/START User timeout, Port Serial0:18, List ""
*Mar  4 19:43:02.788: AAA/ACCT/NET: Found list "default"
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar  4 19:43:02.788: AAA/AUTHOR/FSM Se0:18 (3608739008): Port='Serial0:18' list=''
service=NET
*Mar  4 19:43:02.788: AAA/AUTHOR/FSM: Se0:18 (3608739008) send AV service=ppp
*Mar  4 19:43:02.788: AAA/AUTHOR/FSM: Se0:18 (3608739008) send AV protocol=ip
*Mar  4 19:43:02.788: AAA/AUTHOR/FSM (3608739008) found list "default"
*Mar  4 19:43:02.788: AAA/AUTHOR/FSM: Se0:18 (3608739008) METHOD=RADIUS
*Mar  4 19:43:02.788: RADIUS: Using NAS default peer
*Mar  4 19:43:02.788: RADIUS: Authorize IP address 0.0.0.0
*Mar  4 19:43:02.788: AAA/AUTHOR (3608739008): Post authorization status = PASS_REPL
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/FSM: We can start IPCP
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/FSM: (0): Can we start CDPCP?
*Mar  4 19:43:02.792: AAA/AUTHOR/FSM Se0:18 (3955392150): Port='Serial0:18' list=''
service=NET
*Mar  4 19:43:02.792: AAA/AUTHOR/FSM: Se0:18 (3955392150) send AV service=ppp
*Mar  4 19:43:02.792: AAA/AUTHOR/FSM: Se0:18 (3955392150) send AV protocol=cdp
*Mar  4 19:43:02.792: AAA/AUTHOR/FSM (3955392150) found list "default"
*Mar  4 19:43:02.792: AAA/AUTHOR/FSM: Se0:18 (3955392150) METHOD=RADIUS
*Mar  4 19:43:02.792: AAA/AUTHOR (3955392150): Post authorization status = PASS_REPL
*Mar  4 19:43:02.792: Se0:18 AAA/AUTHOR/FSM: We can start CDPCP
*Mar  4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar  4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  4 19:43:02.808: Se0:18 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's
*Mar  4 19:43:02.808: Se0:18 AAA/AUTHOR/FSM: Processing AV service=ppp
```

```
*Mar  4 19:43:02.808: Se0:18 AAA/AUTHOR/FSM: Succeeded
*Mar  4 19:43:02.816: Se0:18 AAA/AUTHOR/IPCP: Start.  Her address 10.1.1.3, we want 10.1.1.3
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP Se0:18 (2267743837): Port='Serial0:18' list=''
service=NET
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) send AV service=ppp
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) send AV protocol=ip
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) send AV addr*10.1.1.3
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP (2267743837) found list "default"
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) METHOD=RADIUS
*Mar  4 19:43:02.816: RADIUS: Using NAS default peer
*Mar  4 19:43:02.816: RADIUS: Authorize IP address 10.1.1.3
*Mar  4 19:43:02.816: AAA/AUTHOR (2267743837): Post authorization status = PASS_REPL
*Mar  4 19:43:02.816: Se0:18 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:43:02.820: Se0:18 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.3
*Mar  4 19:43:02.820: Se0:18 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:43:02.820: Se0:18 AAA/AUTHOR/IPCP: Done.  Her address 10.1.1.3,
we want 10.1.1.3
*Mar  4 19:43:02.824: Se0:18 AAA/AUTHOR/PER-USER: Event IP_UP
*Mar  4 19:43:02.824: Se0:18 AAA/PER-USER: processing author params.
access-3#show caller
                                            Active    Idle
  Line         User               Service    Time      Time
  Se0:18       timeout          PPP          00:00:19  00:00:19
access-3#show caller timeout
                                  Session   Idle      Disconnect
  Line         User               Timeout   Timeout   User in
  Se0:18       timeout          00:01:30  00:01:00  00:00:37
access-3#ping 10.1.1.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 32/33/36 ms
access-3#show caller timeout
                                  Session   Idle      Disconnect
  Line         User               Timeout   Timeout   User in
  Se0:18       timeout          00:01:30  00:01:00  00:00:57
access-3#show caller user timeout

  User: timeout, line Se0:18, service PPP
        Active time 00:00:38, Idle time 00:00:10
  Timeouts:            Absolute  Idle
      Limits:          00:01:30  00:01:00
      Disconnect in:   00:00:51  00:00:49
  PPP: LCP Open, multilink Closed, CHAP (<- AAA), IPCP, CDPCP
  Dialer: Connected to 4085551200, inbound
          Idle timer 60 secs, idle 10 secs
          Type is ISDN, group Serial0:23
  IP: Local 10.1.1.1, remote 10.1.1.3
      Access list (I/O) is 199/not set
  Counts: 51 packets input, 2104 bytes, 0 no buffer
          11 input errors, 2 CRC, 3 frame, 0 overrun
          58 packets output, 2233 bytes, 0 underruns
          0 output errors, 0 collisions, 45 interface resets

access-3#show caller user timeout

  User: timeout, line Se0:18, service PPP
        Active time 00:00:45, Idle time 00:00:17
  Timeouts:            Absolute  Idle
      Limits:          00:01:30  00:01:00
      Disconnect in:   00:00:44  00:00:42
  PPP: LCP Open, multilink Closed, CHAP (<- AAA), IPCP, CDPCP
  Dialer: Connected to 4085551200, inbound
```

```
          Idle timer 60 secs, idle 17 secs
          Type is ISDN, group Serial0:23
  IP: Local 10.1.1.1, remote 10.1.1.3
      Access list (I/O) is 199/not set
  Counts: 52 packets input, 2120 bytes, 0 no buffer
          11 input errors, 2 CRC, 3 frame, 0 overrun
          59 packets output, 2249 bytes, 0 underruns
          0 output errors, 0 collisions, 45 interface resets

access-3#ping 10.1.1.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 32/34/40 ms
access-3#show caller user timeout

  User: timeout, line Se0:18, service PPP
        Active time 00:01:02, Idle time 00:00:04
  Timeouts:            Absolute  Idle
      Limits:          00:01:30  00:01:00
      Disconnect in:   00:00:27  00:00:55
  PPP: LCP Open, multilink Closed, CHAP (<- AAA), IPCP, CDPCP
  Dialer: Connected to 4085551200, inbound
          Idle timer 60 secs, idle 4 secs
          Type is ISDN, group Serial0:23
  IP: Local 10.1.1.1, remote 10.1.1.3
      Access list (I/O) is 199/not set
  Counts: 60 packets input, 2688 bytes, 0 no buffer
          11 input errors, 2 CRC, 3 frame, 0 overrun
          67 packets output, 2817 bytes, 0 underruns
          0 output errors, 0 collisions, 45 interface resets

access-3#show caller timeout
                                  Session   Idle      Disconnect
  Line         User               Timeout   Timeout   User in
  Se0:18       timeout          00:01:30  00:01:00  00:00:21
access-3#show caller timeout
                                  Session   Idle      Disconnect
  Line         User               Timeout   Timeout   User in
  Se0:18       timeout          00:01:30  00:01:00  00:00:07
access-3#
*Mar  4 19:44:33.788: ISDN Se0:23: TX ->  DISCONNECT pd = 8  callref = 0x800E
*Mar  4 19:44:33.788:         Cause i = 0x8090 - Normal call clearing
*Mar  4 19:44:33.840: ISDN Se0:23: RX <-  RELEASE pd = 8  callref = 0x0E
*Mar  4 19:44:33.852: Se0:18 AAA/ACCT: ISDN xmit 64000 recv 64000 hwidb 612048BC
*Mar  4 19:44:33.852: AAA/ACCT/NET/STOP User timeout, Port Serial0:18:
         task_id=14 timezone=PST service=ppp protocol=ip addr=10.1.1.3 disc-cause=5
disc-cause-ext=1100 pre-bytes-in=101 pre-bytes-out=102 pre-paks-in=5 pre-paks-out=5
bytes_in=2258 bytes_out=2276 paks_in=38 paks_out=38 pre-session-time=2 elapsed_time=91
nas-rx-speed=64000 nas-tx-speed=64000
*Mar  4 19:44:33.852: ISDN Se0:23: TX ->  RELEASE_COMP pd = 8  callref = 0x800E
*Mar  4 19:44:33.856: Se0:18 AAA/AUTHOR/PER-USER: Event IP_DOWN
*Mar  4 19:44:33.856: Se0:18 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:44:34.060: TAC+: (3492368360): received acct response status = SUCCESS
```

Llamada ISDN sin links múltiples de un solo canal con perfiles virtuales

A continuación se muestra el mismo usuario ISDN de canal único sin multilink pero esta vez con perfiles virtuales habilitados. Tenga en cuenta que la interfaz de acceso virtual se crea aunque el link múltiple *no* se negocia y creamos los comandos de configuración para instalar los temporizadores.

```
*Mar  4 19:45:00.480: ISDN Se0:23: RX <-  SETUP pd = 8  callref = 0x0C
*Mar  4 19:45:00.480:         Bearer Capability i = 0x8890
*Mar  4 19:45:00.480:         Channel ID i = 0xA98393
*Mar  4 19:45:00.480:         Calling Party Number i = '!', 0x80, '4085551200'
*Mar  4 19:45:00.480:         Called Party Number i = 0xA1, '4085703930'
*Mar  4 19:45:00.480: ISDN Se0:23: TX ->  CALL_PROC pd = 8  callref = 0x800C
*Mar  4 19:45:00.480:         Channel ID i = 0xA98393
*Mar  4 19:45:00.492: ISDN Se0:23: TX ->  CONNECT pd = 8  callref = 0x800C
*Mar  4 19:45:00.492:         Channel ID i = 0xA98393
*Mar  4 19:45:00.564: ISDN Se0:23: RX <-  CONNECT_ACK pd = 8  callref = 0x0C
*Mar  4 19:45:00.804: Se0:18 PPP: Treating connection as a callin
*Mar  4 19:45:00.804: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:45:02.804: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:45:02.828: Se0:18 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:45:02.828: Se0:18 CHAP: O CHALLENGE id 3 len 26 from "STACK"
*Mar  4 19:45:02.860: Se0:18 CHAP: I RESPONSE id 3 len 30 from "timeout"
*Mar  4 19:45:02.860: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:45:02.860: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:45:02.860: AAA: parse NAME= idb TYPE=-1 tty=-1
*Mar  4 19:45:02.860: RADIUS: ustruct sharecount=1
*Mar  4 19:45:02.860: RADIUS: Initial Transmit Serial0:18 id 6 172.16.24.117:1645,
Access-Request, len 104
*Mar  4 19:45:02.860:         Attribute 4 6 AC101874
*Mar  4 19:45:02.860:         Attribute 5 6 00004E32
*Mar  4 19:45:02.860:         Attribute 61 6 00000002
*Mar  4 19:45:02.864:         Attribute 1 11 74696D65
*Mar  4 19:45:02.864:         Attribute 30 12 34303835
*Mar  4 19:45:02.864:         Attribute 31 12 34303835
*Mar  4 19:45:02.864:         Attribute 3 19 03D4E134
*Mar  4 19:45:02.864:         Attribute 6 6 00000002
*Mar  4 19:45:02.864:         Attribute 7 6 00000001
*Mar  4 19:45:02.868: RADIUS: Received from id 6 172.16.24.117:1645, Access-Accept, len 50
*Mar  4 19:45:02.868:         Attribute 6 6 00000002
*Mar  4 19:45:02.868:         Attribute 7 6 00000001
*Mar  4 19:45:02.868:         Attribute 8 6 FFFFFFFE
*Mar  4 19:45:02.868:         Attribute 27 6 0000005A
*Mar  4 19:45:02.868:         Attribute 28 6 0000003C
*Mar  4 19:45:02.868: Se0:18 AAA/AUTHOR/LCP: Authorize LCP
*Mar  4 19:45:02.868: AAA/AUTHOR/LCP Se0:18 (2825271150): Port='Serial0:18' list=''
service=NET
*Mar  4 19:45:02.868: AAA/AUTHOR/LCP: Se0:18 (2825271150) send AV service=ppp
*Mar  4 19:45:02.868: AAA/AUTHOR/LCP: Se0:18 (2825271150) send AV protocol=lcp
*Mar  4 19:45:02.868: AAA/AUTHOR/LCP (2825271150) found list "default"
*Mar  4 19:45:02.868: AAA/AUTHOR/LCP: Se0:18 (2825271150) METHOD=RADIUS
*Mar  4 19:45:02.872: AAA/AUTHOR (2825271150): Post authorization status = PASS_REPL
*Mar  4 19:45:02.872: Se0:18 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar  4 19:45:02.872: Se0:18 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar  4 19:45:02.872: Se0:18 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar  4 19:45:02.872: AAA/AUTHOR/LCP Se0:18: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60

*Mar  4 19:45:02.872: Se0:18 CHAP: O SUCCESS id 3 len 4
*Mar  4 19:45:02.872: AAA/ACCT/NET/START User timeout, Port Serial0:18, List ""
*Mar  4 19:45:02.872: AAA/ACCT/NET: Found list "default"
*Mar  4 19:45:02.872: Vi1 VTEMPLATE: Reuse Vi1, recycle queue size 0
*Mar  4 19:45:02.872: Vi1 VTEMPLATE: Hardware address 00e0.1e81.636c
*Mar  4 19:45:02.872: Vi1 VTEMPLATE: Has a new cloneblk vtemplate, now it has vtemplate
*Mar  4 19:45:02.872: Vi1 VTEMPLATE: ************* CLONE VACCESS1 *****************
*Mar  4 19:45:02.872: Vi1 VTEMPLATE: Clone from Virtual-Template1
interface Virtual-Access1
```

```
default ip address
no ip address
encap ppp
ip unnumbered Loopback0
ip access-group 199 in
ip helper-address 172.16.24.118
no ip directed-broadcast
ip accounting output-packets
ip nat inside
no keepalive
peer default ip address pool default
compress mppc
ppp callback accept
ppp authentication chap pap ms-chap
ppp multilink
multilink max-links 2
end

  enabling payload compression on this interface.
*Mar  4 19:45:02.952: Vi1 VTEMPLATE: Has a new cloneblk AAA, now it has vtemplate/AAA
*Mar  4 19:45:02.952: Vi1 VTEMPLATE: ************* CLONE VACCESS1 *****************
*Mar  4 19:45:02.952: Vi1 VTEMPLATE: Clone from AAA
interface Virtual-Access1
timeout absolute 1 30
ppp timeout idle 60
end

*Mar  4 19:45:02.976: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up
*Mar  4 19:45:02.976: Vi1 PPP: Treating connection as a dedicated line
*Mar  4 19:45:02.976: Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:45:02.980: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar  4 19:45:02.980: AAA/AUTHOR/FSM Vi1 (2657898442): Port='Serial0:18' list='' service=NET
*Mar  4 19:45:02.980: AAA/AUTHOR/FSM: Vi1 (2657898442) send AV service=ppp
*Mar  4 19:45:02.980: AAA/AUTHOR/FSM: Vi1 (2657898442) send AV protocol=ip
*Mar  4 19:45:02.980: AAA/AUTHOR/FSM (2657898442) found list "default"
*Mar  4 19:45:02.980: AAA/AUTHOR/FSM: Vi1 (2657898442) METHOD=RADIUS
*Mar  4 19:45:02.980: RADIUS: Using NAS default peer
*Mar  4 19:45:02.980: RADIUS: Authorize IP address 0.0.0.0
*Mar  4 19:45:02.980: AAA/AUTHOR (2657898442): Post authorization status = PASS_REPL
*Mar  4 19:45:02.980: Vi1 AAA/AUTHOR/FSM: We can start IPCP
*Mar  4 19:45:02.980: Vi1 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  4 19:45:02.980: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:45:02.980: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar  4 19:45:02.980: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:45:02.980: Vi1 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  4 19:45:02.996: Vi1 AAA/AUTHOR/IPCP: Start.  Her address 10.1.1.3, we want 10.1.1.3
*Mar  4 19:45:02.996: AAA/AUTHOR/IPCP Vi1 (1804338759): Port='Serial0:18' list=''
service=NET
*Mar  4 19:45:02.996: AAA/AUTHOR/IPCP: Vi1 (1804338759) send AV service=ppp
*Mar  4 19:45:02.996: AAA/AUTHOR/IPCP: Vi1 (1804338759) send AV protocol=ip
*Mar  4 19:45:02.996: AAA/AUTHOR/IPCP: Vi1 (1804338759) send AV addr*10.1.1.3
*Mar  4 19:45:02.996: AAA/AUTHOR/IPCP (1804338759) found list "default"
*Mar  4 19:45:02.996: AAA/AUTHOR/IPCP: Vi1 (1804338759) METHOD=RADIUS
*Mar  4 19:45:02.996: RADIUS: Using NAS default peer
*Mar  4 19:45:02.996: RADIUS: Authorize IP address 10.1.1.3
*Mar  4 19:45:02.996: AAA/AUTHOR (1804338759): Post authorization status = PASS_REPL
*Mar  4 19:45:02.996: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:45:02.996: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.3
*Mar  4 19:45:02.996: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:45:02.996: Vi1 AAA/AUTHOR/IPCP: Done.  Her address 10.1.1.3, we want 10.1.1.3
*Mar  4 19:45:03.004: Vi1 AAA/AUTHOR/PER-USER: Event IP_UP
*Mar  4 19:45:03.004: Vi1 AAA/PER-USER: processing author params.
*Mar  4 19:45:03.996: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up
```

```
access-3#show caller
                                                 Active    Idle
  Line         User               Service       Time      Time

  Se0:18       timeout            PPP           00:00:11  00:00:10
  Vi1          timeout            PPP   VDP     00:00:11  00:00:10
access-3#show caller timeout

  User: timeout, line Se0:18, service PPP
        Active time 00:00:15, Idle time 00:00:15
  Timeouts:            Absolute  Idle
      Limits:          -         -
      Disconnect in:   -         -
  PPP: LCP Open, multilink Closed, CHAP (<- AAA)
  Dialer: Connected to 4085551200, inbound
          Idle timer 60 secs, idle 15 secs
          Type is ISDN, group Serial0:23
  IP: Local 10.1.1.1
      Access list (I/O) is 199/not set
  Counts: 81 packets input, 3291 bytes, 0 no buffer
          11 input errors, 2 CRC, 3 frame, 0 overrun
          87 packets output, 3419 bytes, 0 underruns
          0 output errors, 0 collisions, 47 interface resets

  User: timeout, line Vi1, service PPP VDP
        Active time 00:00:15, Idle time 00:00:15
  Timeouts:            Absolute  Idle
      Limits:          00:01:30  00:01:00
      Disconnect in:   00:01:13  00:00:44
  PPP: LCP Open, multilink Closed, CHAP (<- none), IPCP
       Idle timer 60 secs, idle 15 secs
  IP: Local 10.1.1.1, remote 10.1.1.3
      Access list (I/O) is 199/not set
  Counts: 7 packets input, 370 bytes, 0 no buffer
          0 input errors, 0 CRC, 0 frame, 0 overrun
          19 packets output, 404 bytes, 0 underruns
          0 output errors, 0 collisions, 0 interface resets

access-3#show caller timeouts
                                  Session   Idle      Disconnect
  Line         User               Timeout   Timeout   User in
  Se0:18       timeout            -         -         -
  Vi1          timeout            00:01:30  00:01:00  00:00:40
access-3#ping 10.1.1.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 32/33/36 ms
access-3#show caller timeouts
                                  Session   Idle      Disconnect
  Line         User               Timeout   Timeout   User in
  Se0:18       timeout            -         -         -
  Vi1          timeout            00:01:30  00:01:00  00:00:58
access-3#show caller user timeout

  User: timeout, line Se0:18, service PPP
        Active time 00:00:34, Idle time 00:00:09
  Timeouts:            Absolute  Idle
      Limits:          -         -
      Disconnect in:   -         -
  PPP: LCP Open, multilink Closed, CHAP (<- AAA)
  Dialer: Connected to 4085551200, inbound
          Idle timer 60 secs, idle 9 secs
```

```
          Type is ISDN, group Serial0:23
  IP: Local 10.1.1.1
      Access list (I/O) is 199/not set
  Counts: 88 packets input, 3843 bytes, 0 no buffer
          11 input errors, 2 CRC, 3 frame, 0 overrun
          94 packets output, 3971 bytes, 0 underruns
          0 output errors, 0 collisions, 47 interface resets

  User: timeout, line Vi1, service PPP VDP
        Active time 00:00:34, Idle time 00:00:09
  Timeouts:            Absolute  Idle
      Limits:          00:01:30  00:01:00
      Disconnect in:   00:00:54  00:00:50

  PPP: LCP Open, multilink Closed, CHAP (<- none), IPCP
       Idle timer 60 secs, idle 9 secs
  IP: Local 10.1.1.1, remote 10.1.1.3
      Access list (I/O) is 199/not set
  Counts: 14 packets input, 922 bytes, 0 no buffer
          0 input errors, 0 CRC, 0 frame, 0 overrun
          33 packets output, 956 bytes, 0 underruns
          0 output errors, 0 collisions, 0 interface resets

access-3#show caller timeout
                                  Session   Idle      Disconnect
  Line         User               Timeout   Timeout   User in
  Se0:18       timeout          -         -         -
  Vi1          timeout          00:01:30  00:01:00  00:00:42
access-3#show caller timeouts
                                  Session   Idle      Disconnect
  Line         User               Timeout   Timeout   User in
  Se0:18       timeout          -         -         -
  Vi1          timeout          00:01:30  00:01:00  00:00:22
access-3#show caller
                                               Active    Idle
  Line         User               Service       Time      Time
  Se0:18       timeout          PPP           00:01:22  00:00:57
  Vi1          timeout          PPP   VDP     00:01:22  00:00:57
access-3#
*Mar  4 19:46:28.996: Vi1 PPP: Idle timeout, dropping connection
*Mar  4 19:46:28.996: Se0:18 AAA/ACCT: ISDN xmit 64000 recv 64000 hwidb 612048BC
*Mar  4 19:46:28.996: AAA/ACCT/NET/STOP User timeout, Port Serial0:18:
         task_id=15 timezone=PST service=ppp protocol=ip addr=10.1.1.3 disc-cause=4
disc-cause-ext=1021 pre-bytes-in=101 pre-bytes-out=102 pre-paks-in=5 pre-paks-out=5
bytes_in=1024 bytes_out=1036 paks_in=21 paks_out=21 pre-session-time=2 elapsed_time=86
nas-rx-speed=64000 nas-tx-speed=64000
*Mar  4 19:46:29.000: ISDN Se0:23: TX ->  DISCONNECT pd = 8  callref = 0x800C
*Mar  4 19:46:29.000:         Cause i = 0x8090 - Normal call clearing
*Mar  4 19:46:29.000: Vi1 AAA/AUTHOR/PER-USER: Event IP_DOWN
*Mar  4 19:46:29.000: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to down
*Mar  4 19:46:29.004: Vi1 VTEMPLATE: Free vaccess
*Mar  4 19:46:29.004: Vi1 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:46:29.052: ISDN Se0:23: RX <-  RELEASE pd = 8  callref = 0x0C
*Mar  4 19:46:29.064: ISDN Se0:23: TX ->  RELEASE_COMP pd = 8  callref = 0x800C
*Mar  4 19:46:29.064: Se0:18 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:46:29.208: TAC+: (3109010012): received acct response status = SUCCESS
*Mar  4 19:46:29.580: VTEMPLATE: Clean up dirty vaccess queue, size 1
*Mar  4 19:46:29.580: Vi1 VTEMPLATE: Found a dirty vaccess clone with vtemplate/AAA
*Mar  4 19:46:29.580: Vi1 VTEMPLATE: ************ UNCLONE VACCESS1 **************
*Mar  4 19:46:29.580: Vi1 VTEMPLATE: Unclone to-be-freed command#2
interface Virtual-Access1
default ppp timeout idle 60
default timeout absolute 1 30
end
```

```
*Mar  4 19:46:29.596: Vi1 VTEMPLATE: Set default settings with no ip address
*Mar  4 19:46:29.616: Vi1 VTEMPLATE: Remove cloneblk AAA with vtemplate/AAA
*Mar  4 19:46:29.616: Vi1 VTEMPLATE: ************ UNCLONE VACCESS1 **************
*Mar  4 19:46:29.616: Vi1 VTEMPLATE: Unclone to-be-freed command#15
interface Virtual-Access1
default multilink max-links 2
default ppp multilink
default ppp authentication chap pap ms-chap
default ppp callback accept
default compress mppc
default peer default ip address pool default
default keepalive
default ip nat inside
default ip accounting output-packets
default ip directed-broadcast
default ip helper-address 172.16.24.118
default ip access-group 199 in
default ip unnumbered Loopback0
default encap ppp
default ip address
end

*Mar  4 19:46:29.704: Vi1 VTEMPLATE: Set default settings with no ip address
*Mar  4 19:46:29.720: Vi1 VTEMPLATE: Remove cloneblk vtemplate with vtemplate/AAA
*Mar  4 19:46:29.720: Vi1 VTEMPLATE: Add vaccess to recycle queue, queue SIZE=1
*Mar  4 19:46:30.000: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to down
```

Información Relacionada

- Páginas de soporte de la tecnología de marcación
- Soporte Técnico - Cisco Systems