Timeouts de PPP por usuário

Contents

Introduction

Esta dica técnica explica como implementar intervalos por usuário nas plataformas de acesso Cisco. Para que os tempos limites por peer funcionem adequadamente, você deve executar a versão 11.3(8)T ou posterior do Cisco IOS. Se você executar uma versão anterior do Cisco IOS, os temporizadores poderão trabalhar somente em determinadas configurações básicas, tais como a assíncrona, que funciona apenas com perfis não virtuais.

Este documento aborda a configuração do servidor de acesso à rede (NAS) e do servidor de autenticação, autorização e contabilização (AAA). Fornece também a saída do comando show and debug para que você possa confirmar se seus dispositivos estão funcionando bem e possa depurar quaisquer problemas.

Prerequisites

Requirements

Não existem requisitos específicos para este documento.

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- Cisco IOS versão 11.3(8)T ou 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.

Conventions

Para obter mais informações sobre convenções de documento, consulte as Convenções de dicas técnicas Cisco.

Detalhes técnicos

Antes de discutir intervalos por usuário, o que envolve outras variáveis, como configuração AAA e servidores RADIUS/TACACS+, examinaremos como configurar um servidor de acesso para intervalos fixos, ou seja, intervalos aplicados globalmente e a todos que discam.

Os comandos principais do Cisco IOS são dialer idle-timeout e timeout absolute. Ambos são comandos de configuração de interface. Também discutiremos um terceiro comando, ppp timeout idle, que é utilizado em interfaces vaccess.

dialer idle-timeout <x>

Esse comando pode ser configurado em qualquer interface habilitada para discador e controla por quanto tempo a conexão pode ficar ociosa (em segundos) antes de ser encerrada. Listado abaixo estão quatro pontos que devem ser observados em relação a este comando:

1. Esse comando só pode ser aplicado às interfaces que são compatíveis com discador. Por padrão, todas as interfaces ISDN (BRI e PRI) têm capacidade de discador, portanto, adicionar esse comando não é um problema. Por padrão, as interfaces assíncronas (inclusive as interfaces de grupo assíncronas) não têm o recurso de discador. Habilite este recurso, digitando o comando dialer in-band. Só depois de emitir o comando dialer in-band na interface assíncrona, é possível configurar o dialer idle-timeout. Nota**Observação:** o vtemplate (e, portanto, as interfaces vaccess) não são compatíveis com o discador (são somente ponto-a-ponto) e, portanto, não podem usar esse comando.
2. Em uma interface habilitada para discador (ou seja, ISDN ou assíncrona com discador na banda), o padrão é **dialer idle-timeout 120** (segundos). Em geral ele é muito curto em um ambiente ISP e, assim, quase sempre deve ser aumentado.
3. Como padrão, o comando dialer idle-timeout é restaurado somente no tráfego externo (tráfego em direção ao usuário) correspondente a dialer-list (isto é, considerado interessante). É possível redefini-lo para o tráfego de entrada interessante também adicionando a palavra-chave **ambas** ao final do comando (ou seja, **dialer idle-timeout 600 também**).
4. O tráfego considerado "interessante" é definido pelo comando **dialer-list** ***<n>, no qual <n>***

corresponde ao número na *instrução de comando<n>* ***dialer-group***.

intervalo absoluto <x> <y>

Esse comando pode ser configurado em qualquer interface WAN, incluindo interfaces assíncronas, interfaces ISDN, interfaces de discador e interfaces de vtemplate. Controla por quanto tempo a conexão pode ficar ativa antes de ser encerrada. Observe que a sintaxe é <x> <y> em que <x> está em minutos e <y> em segundos.

ppp timeout idle <x>

Esse comando só pode ser configurado em interfaces de vtemplate (e está até oculto no analisador) e controla por quanto tempo a conexão pode ficar ociosa (em segundos) antes de ser encerrada. Sua função é muito similar àquela do comando dialer idle-timeout em interfaces de discadores, somente o ppp timeout idle é para as interfaces vtemplate/vaccess. Como é usado especificamente em interfaces vtemplate/vaccess, esse comando é apropriado para configurações de perfil virtual (onde uma interface vaccess é sempre criada para um usuário) e gateways domésticos de rede de discagem privada virtual (VPDN) (onde as interfaces projetadas são sempre terminadas em uma interface vaccess). Ao contrário do comando dialer idle-timeout, não há um conceito de tráfego interessante e, dessa forma, todo tráfego de usuário reiniciará o temporizador ocioso. O tráfego de não-usuário como as manutenções de atividades de LCP (Protocolo de controle de enlace) e pacotes de negociações do NCP (Protocolo de controle de rede) não reinicializa o temporizador.

Configurar

Nesta seção, você encontrará informações para configurar os recursos descritos neste documento.

Observação: para encontrar informações adicionais sobre os comandos usados neste documento, use a ferramenta Command Lookup Tool (somente clientes registrados).

Este documento utiliza as seguintes configurações:

- Configuração básica (perfis virtuais não ativados)
- Intervalos globais
- Intervalos por usuário – Configuração do servidor de AAA
- Intervalos por usuário - Configuração de NAS

Configuração básica (perfis virtuais não ativados)

Para fins didáticos, iremos supor uma configuração de base como a descrita abaixo. O recurso perfis virtuais não está ativo.

Configuração de 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
```

Intervalos globais

Para o próximo exemplo, imporemos um tempo limite ocioso de 30 minutos (1800 segundos) e um tempo limite absoluto de 3 horas (180 minutos) para os usuários. A alteração de configuração delta que ativará os **tempos limite globais de ppp** será a seguinte:

```
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
```

Se você não tiver uma lista de discadores 1, precisará definir uma. O mais simples seria dialer-list 1 protocol ip permit.

Se você estivesse usando perfis virtuais, sua configuração poderia ser mais fácil porque você poderia simplesmente colocar o timeout na interface virtual-modelo, como mostrado abaixo:

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

Intervalos por usuário – Configuração do servidor de AAA

Agora que já trabalhamos com timeouts globais, estenderemos este conhecimento para timeouts por usuário. Seus valores de cronômetro por usuário cairão durante a autorização da rede, então você precisa ter o comando aaa authorization network configurado para o método que você estiver utilizando, RADIUS ou TACACS+. Observe também que os temporizadores por usuário sempre substituirão quaisquer valores globais pré-configurados no NAS. A forma como os temporizadores por usuário funcionam é que quando o servidor de acesso recebe os atributos de tempo limite durante a fase de autorização da rede, ele converterá esses atributos em um conjunto de comandos de configuração que serão inseridos na interface à qual o usuário será conectado. Esses comandos de configuração inseridos na interface por um processo em segundo plano são temporários; eles são removidos quando o usuário se desconecta.

Listados abaixo estão vários perfis de usuário de exemplo no servidor:

Perfis 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
```

Observação: sua sintaxe pode variar dependendo de como o dicionário está configurado.

Perfis 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"
        }
}
```

Intervalos por usuário - Configuração de NAS

Se você estiver fazendo somente assíncrono (sem ISDN) sem usar perfis virtuais, assim que tiver configurado o discador associado nas interfaces assíncronas (ou grupo assíncrono), os cronômetros por usuário deverão funcionar. O processo em segundo plano inserirá os temporizadores na interface assíncrona, usando os comandos **dialer idle-timeout** e **timeout absolute** com os valores transmitidos de RADIUS/TACACS+, e os removerá quando o usuário se desconectar.

Se você estiver fazendo apenas comutação assíncrona (sem ISDN) e usando perfis virtuais, não precisará de discador associado configurado na interface assíncrona (ou assíncrona por grupo). Deve funcionar. O processo em segundo plano inserirá os temporizadores na interface vaccess, usando os comandos pp timeout idle e timeout absolute com os valores transmitidos de RADIUS/TACACS+, e os descartará quando o usuário desconectar.

Se você tiver usuários ISDN e precisar fazer temporizadores por usuário, talvez precise usar perfis virtuais. O motivo é que o processo em segundo plano discutido anteriormente não funciona para interfaces ISDN; ou seja, você não pode configurar o canal B ao qual o usuário está conectado. A única coisa que você pode configurar é o canal D que afeta todos. Entretanto, se um usuário negocia multilink em uma sessão, o servidor de acesso automaticamente criará uma interface de acesso virtual que atue como a interface do conjunto para o usuário. O processo de fundo trabalha em interfaces de acesso virtual, mas não trabalha em uma chamada de ISDN que não seja multienlace, em que não há interface de acesso virtual. Então, se você terá usuários do canal B únicos que não negociam multilink e deseja instalar timeouts de usuário para eles, é necessário ativar perfis virtuais. Habilitar perfis virtuais força a criação de uma interface vaccess para todos os usuários (não apenas os usuários multilink) e o processo de fundo pode inserir com êxito os comandos ppp timeout idle e timeout absolute. Se você optar por não ativar perfis virtuais, os usuários assíncronos e os usuários de ISDN multilink poderão ter intervalos por usuário aplicados a eles. Mas não é possível aplicar intervalos por usuário a usuários de ISDN não-multiponto. Somente os tempos limite globais configurados estaticamente na interface (se houver) serão aplicados. Se você tentar aplicar intervalos de parada por usuário a um usuário ISDN não-multilink e não tiver perfis virtuais ativados, a conexão do usuário falhará durante o processo de autorização, pois o servidor de acesso não será capaz de processar os atributos obrigatórios de intervalo de parada por usuário.

Além disso, um recurso foi adicionado ao Cisco IOS 11.3(8.1)T e versões posteriores, o que permite que os tempos limite por usuário sejam aplicados a usuários ISDN não-multilink. Essencialmente, ele ignora o modo de configuração de processo de fundo que em geral é usado e define os cronômetros diretamente para o canal B sem usar a interface de linha de comando.

Para resumir essa configuração complicada, você pode seguir estas duas regras:

- Se não estiver usando perfis virtuais, configure **dialer in-band** nas interfaces assíncronas e execute o Cisco IOS 11.3(8.1)T ou posterior. Se você estiver executando o Cisco IOS 11.3(8)T, esteja ciente de que os usuários de ISDN que não sejam multienlace não podem ter intervalos por usuário aplicados a eles, caso contrário, eles falharão ao conectar.
- Se estiver usando perfis virtuais, o Cisco IOS 11.3(8) ou mais recente funcionará bem.

Verificar

No momento, não há procedimento de verificação disponível para esta configuração.

Troubleshoot

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração. Para fins de depuração, seis exemplos de saída de chamada são incluídos. Para ir diretamente para uma seção específica, selecione um dos links abaixo:

A Output Interpreter Tool (somente clientes registrados) oferece suporte a determinados comandos show, o que permite exibir uma análise da saída do comando show.

Observação: antes de inserir o comando **debug**, consulte Informações importantes sobre os comandos debug.

- Chamada assíncrona com perfis virtuais – A conexão não fica ociosa

- Chamada assíncrona com perfis virtuais – Conexão fica ociosa
- Chamada assíncrona sem perfis virtuais
- Chamada de ISDN de canal único de multilink sem perfis virtuais
- Chamada de ISDN de canal único de não-Multilink sem perfis virtuais
- Chamada de ISDN de canal único de não-multilink com perfis virtuais

Observação: para ver os mesmos comandos e saída apresentados abaixo, você deve estar executando o Cisco IOS versão 11.3AA ou versão 12.0T.

Chamada assíncrona com perfis virtuais – A conexão não fica ociosa

Segue abaixo uma chamada assíncrona com perfis virtuais. O perfil instala um intervalo absoluto de 90 segundos e um intervalo ocioso de 60 segundos. Neste exemplo, não deixaremos que a conexão tenha tempo ocioso. Consulte os comentários na saída abaixo para obter mais detalhes. Os comentários são destacados e em texto em itálico.

```
!--- 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
```

Chamada assíncrona com perfis virtuais – Conexão fica ociosa

Segue abaixo uma chamada assíncrona com perfis virtuais. Tem o mesmo nome de usuário que o exemplo acima. O perfil instala um intervalo absoluto de 90 segundos e um intervalo ocioso de 60 segundos. Neste exemplo, deixaremos a conexão ociosa. Não há comentários abaixo, mas a saída importante foi realçada.

```
*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
```

Chamada assíncrona sem perfis virtuais

Abaixo, uma chamada assíncrona sem os perfis virtuais habilitados. Observe que o comando idle-timeout é usado no lugar do comando ppp timeout idle, pois não estamos usando perfis virtuais e não há interfaces vaccess. Você também nos verá criar o comando **per-user timeout** e, ao mesmo tempo, a versão **no** dos comandos. Os comandos **per-user timer** são instalados imediatamente, enquanto a **nenhuma** versão dos comandos é enfileirada para a interface a ser processada quando o usuário 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
```

Chamada de ISDN de canal único de multilink sem perfis virtuais

Abaixo está uma chamada ISDN multilink sem perfis virtuais ativados. Como uma chamada multilink cria uma interface vaccess, os temporizadores podem ser instalados facilmente.

```
*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
```

Chamada de ISDN de canal único de não-Multilink sem perfis virtuais

Abaixo, uma chamada de ISDN de canal simples sem multilink cujos perfis virtuais não estão habilitados. Neste exemplo, estamos executando o Cisco IOS 11.3(8.2)AA para que esses temporizadores possam ser instalados corretamente. No entanto, observe que nenhum comando de configuração foi criado para causar isso; os temporizadores foram definidos internamente no 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
```

Chamada de ISDN de canal único de não-multilink com perfis virtuais

Abaixo está o mesmo usuário ISDN de canal único não multilink, mas desta vez com perfis virtuais ativados. Observe que a interface vaccess é criada mesmo que o multilink *não* seja negociado e criemos os comandos de configuração para instalar os 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
```

Informações Relacionadas

- Página de suporte da tecnologia de discagem
- Suporte Técnico - Cisco Systems