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简介

此技术提示解释如何实现在Cisco接入服务器的每用户超时。为了使适当地工作的每用户超时，您必须运行Cisco IOS版本11.3(8)T或以上。如果运行Cisco IOS更早版本，计时器在某些基本配置方面也许只仅运转，例如异步没有虚拟配置文件。

本文包括网络接入服务器(NAS)和验证、授权和统计(AAA)服务器的配置。它也提供**show and debug**命令输出，因此您能确认您的设备是否是工作正常，和，因此您能调试所有问题。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档中的信息基于以下软件和硬件版本：

- Cisco IOS版本11.3(8)T或以上

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

技术详细资料

在讨论每用户超时前，带来其他变量类似AAA配置和RADIUS/TACACS+服务器，我们将检查如何配置固定超时的一接入服务器，是超时全球性应用和应用对拨号的每个人。

关键Cisco IOS命令是**dialer idle-timeout**及**timeout absolute**。这两是接口配置命令。我们也讨论第三命令，**ppp timeout idle**，在vaccess接口使用。

拨号空闲超时<x>

此命令在所有拨号器能力接口和控制可以配置连接多久可以空闲(以秒钟)，在终止前。如下所示四指向您应该注释关于此命令：

1. 该命令只能应用于支持拨号程序的接口。默认情况下所有ISDN接口(BRI和PRI)是支持拨号程序的，因此添加此命令不是问题。异步接口(包括组异步接口)默认情况下不支持拨号程序的，您必须通过输入dialer in-band命令如此做他们。在输入**dialer in-band**命令之后在异步接口能配置**拨号空闲超时**。注意注意：vtemplate (并且vaccess接口)不支持拨号程序的(他们只点到点)和不能因而使用此命令。
2. 在拨号器能力接口(即ISDN或异步与频带内拨号)，默认是**dialer idle-timeout 120** (秒钟)。这通常是太短的在ISP环境，因此您应该几乎总是增加此。
3. 默认情况下**拨号空闲超时**在即匹配拨号列表的出站流量(往用户的流量只重置) (被认为触发的)。为入站关注数据流重置它是可能的通过添加任一关键字在命令(即**dialer idle-timeout 600**结束时二者之一)。
4. “触发的”流量被认为是由**dialer-list <n>**命令定义，其中<n>匹配在您的**dialer-group <n>**命令语句的编号。

绝对超时<x> <y>

此命令在所有广域网接口可以配置，包括异步接口、ISDN接口、拨号接口和vtemplate界面。它控制连接多久可以是UP，在终止前。注意语法是<x>是以分钟的<x> <y>，并且<y>是以秒钟。

ppp timeout idle <x>

此命令在vtemplate界面(和是在分析程序隐藏的均等)和控制可能只配置连接多久可以空闲(以秒钟)，在终止前。其功能非常类似于那在拨号接口的**拨号程序空闲Timeout**命令，只有**ppp timeout idle**是为vtemplate/vaccess接口。由于它在vtemplate/vaccess接口特定使用，此命令为虚拟配置文件配置(其中vaccess接口为用户总是创建)和虚拟专用拨号网络(VPDN)家用网关是适当的(其中设想的接口在vaccess接口总是终止)。不同于**拨号程序空闲Timeout**命令，没有关注数据流的概念，并且所有用户数据流将因而重置空闲计时器。非使用者流量例如链路控制协议(LCP) Keepalive和网络控制协议(NCP)协商信息包不重置计时器。

配置

本部分提供有关如何配置本文档所述功能的信息。

注意：要查找本文档所用命令的其他信息，请使用[命令查找工具](#) ([仅限注册用户](#))。

本文档使用以下配置：

- [基本配置\(没启用的虚拟配置文件\)](#)
- [全局超时](#)
- [每用户超时 - AAA 服务器配置](#)
- [每用户超时 - NAS 配置](#)

[基本配置\(没启用的虚拟配置文件\)](#)

用于学习目的，我们下面将采取一基本配置例如那个。虚拟配置文件功能没有打开。

基本配置

```
!version 11.3service timestamps debug datetime msecservice timestamps log datetime msecservice password-encryption!hostname access-3!aaa new-modelaaa authentication login default tacacs+ localaaa authentication login console noneaaa authentication login use-radius local radiusaaa authentication enable default enableaaa authentication ppp default if-needed local tacacs+aaa authentication ppp use-radius if-needed local radiusaaa authentication arap default localaaa authorization exec default tacacs+ localaaa authorization exec console noneaaa authorization exec use-radius local radius if-authenticatedaaa authorization network default local tacacs+ if-authenticatedaaa authorization network use-radius local radius if-authenticatedaaa 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$kPcoplzxxkpxa8fkxxBWp21!modem call-record tersemodem buffer-size 250no ip finger!isdn switch-type primary-5essclock timezone PST -8clock summer-time PDT recurring!controller T1 0 framing esf clock source line primary linecode b8zs pri-group timeslots 1-24<output omitted>!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!<output omitted>!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 10.1.1.200ip classlessip route 0.0.0.0 0.0.0.0 172.16.1.254!no logging consoledialer-list 1 protocol ip permittacacs-server host 172.16.1.201tacacs-server key ciscoradius-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 noneline 1 96 autoselect during-login
autoselect ppp modem Dialin escape-character BREAK
authorization exec use-radius login authentication use-
radiusline aux 0line vty 0 4 exec-timeout 60 0!end
```

全局超时

对于下一个示例，我们将强加30分钟(1800秒)空闲超时和三小时(180分钟)绝对超时用户的。将启用全局超时的Delta配置更改如下：

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

如果没有dialer-list 1，您将需要定义一。最简单是dialer-list 1 protocol ip permit。

如果使用虚拟配置文件，您的配置可以是容易，因为您在虚拟模板接口能放置超时，如下所示：

```
interface Virtual-Templat1 ppp timeout idle 1800 timeout absolute 180
```

每用户超时 - AAA 服务器配置

即然我们在全局超时工作，我们对每用户超时将扩大此知识。您的每用户计时器值在网络授权时下来，因此您必须有aaa authorization network命令已配置的对任何方法您使用，是RADIUS或TACACS+。并且请注意每用户计时器永远将改写在NAS预先配置的所有全局值。方式每用户计时器工作是，当在网络授权相位期间时，接入服务器接收超时属性，将翻译这些属性成将被输入到接口用户连接的一套配置命令。被输入到接口由后台进程的这些配置命令是临时的;当用户断开时，他们删除。

如下所示在服务器的几用户配置文件：

RADIUS配置文件

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

注意： 您的语法可能根据您的字典如何变化设置。

TACACS+配置文件

```
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"          } }
```

每用户超时 - NAS 配置

如果只执行异步(没有ISDN)使用虚拟配置文件，和不，只要您有在异步(或异步组)接口配置的频带内拨号，每用户计时器应该工作。当用户断开，后台进程将插入在异步接口的计时器，使用dialer idle-timeout及timeout absolute命令与从RADIUS/TACACS+通过的值，并且带他们出去。

如果只执行异步(没有ISDN)和使用虚拟配置文件，您不需要在异步(或异步组)接口配置的**频带内拨号**。它应该运作。当用户断开，后台进程将插入在vaccess接口的计时器，使用**ppp timeout idle**和**绝对超时**命令与从RADIUS/TACACS+通过的值，并且带他们出去。

如果有ISDN用户和您需要执行每用户计时器，您可能需要使用虚拟配置文件。原因是，因为我们有先前讨论的后台进程不为ISDN接口工作;即您不能配置用户连接的B信道。影响大家。的您能配置的唯一的事是D-channel然而，如果用户协商在会话的多链路，访问服务器将自动地创建作为用户的捆绑接口的虚拟访问接口。后台进程在虚拟访问接口工作，但是在没有虚拟访问接口的一次非多链路ISDN呼叫不工作。因此，如果将有不协商多链路，并且您要安装他们的每用户超时的单个B信道用户，您必须启用虚拟配置文件。启用虚拟配置文件强制一个vaccess接口的创建所有用户的(不仅多链路用户)，并且后台进程能成功地插入**ppp timeout idle**和**绝对超时**命令。如果选择不启用虚拟配置文件，异步用户和多链路ISDN用户能有每用户超时应用对他们。但是，非多链路ISDN用户不能有每用户超时应用对他们。在接口静态配置的仅全局超时(若有)将应用。如果设法应用每用户超时对一个非多链路ISDN用户，并且不安排虚拟配置文件打开，用户连接将发生故障授权，因为访问服务器无法处理必须每用户超时属性。

另外，允许将应用的每用户超时对非多链路ISDN用户的功能被添加了到Cisco IOS 11.3(8.1)T及以上版本版本。它根本绕过通常使用的后台进程配置模式并且设置计时器直接地在B信道上，无需使用命令行界面。

要汇总此复杂设置，这请是两规定您能跟随：

- 使用虚拟配置文件，如果不，请配置异步接口和运行Cisco IOS 11.3(8.1)T或者以后的**频带内拨号**。如果运行Cisco IOS 11.3(8)T，请当心非多链路ISDN用户不能有每用户超时应用对他们，否则他们不能连接。
- 如果曾经虚拟配置文件，Cisco IOS 11.3(8)T或以后将工作良好。

验证

当前没有可用于此配置的验证过程。

故障排除

本部分提供的信息可用于对配置进行故障排除。为调试，六个呼叫输出示例包括。要跳直接地到一个特定的部分，请选择其中一条下面链路：

[命令输出解释程序工具](#) ([仅限注册用户](#)) 支持某些 **show** 命令，使用此工具可以查看对 show 命令输出的分析。

注意： 在发出 **debug** 命令之前，请参阅[有关 Debug 命令的重要信息](#)。

- [与虚拟配置文件的异步呼叫-连接不断开](#)
- [与虚拟配置文件的异步呼叫-连接断开](#)
- [没有虚拟配置文件的异步呼叫](#)
- [多链路没有虚拟配置文件的单个信道ISDN呼叫](#)
- [没有虚拟配置文件的非多链路单个信道ISDN呼叫](#)
- [与虚拟配置文件的非多链路单个信道ISDN呼叫](#)

注意： 要看到下面提交的同一命令和输出，您一定运行Cisco IOS版本11.3AA或版本12.0T。

与虚拟配置文件的异步呼叫-连接不断开

下面与虚拟配置文件的异步呼叫。配置文件安装90秒绝对超时和60秒空闲超时。在本例中，我们不会让连接断开。欲了解更详细的信息请参阅注释在下面输出中。注释用斜体字印刷的文本突出显示和。

```
!--- 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 30ppp
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-Templateinterface
Virtual-Access1default ip addressno ip addressencap pppip unnumbered Loopback0ip access-group
199 inip helper-address 172.16.24.118no ip directed-broadcastip accounting output-packetsip nat
insideno keepalivepeer default ip address pool defaultcompress mppcPPP callback acceptppp
authentication chap pap ms-chapppp multilinkmultilink max-links 2end*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 AAAinterface Virtual-
Access1timeout absolute 1 30ppp timeout idle 60end!--- 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 resetsaccess-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 10.1.1.3Type 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 10.1.1.3Type 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#2interface Virtual-Access1default ppp timeout idle 60default timeout absolute 1 30end!---
- 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#15interface Virtual-Access1default multilink max-
links 2default ppp multilinkdefault ppp authentication chap pap ms-chapdefault ppp callback
acceptdefault compress mppcdefault peer default ip address pool defaultdefault keepalivedefault
ip nat insidedefault ip accounting output-packetsdefault ip directed-broadcastdefault ip helper-
address 172.16.24.118default ip access-group 199 indefault ip unnumbered Loopback0default encaps
pppdefault ip addressend*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
```

与虚拟配置文件的异步呼叫-连接断开

下面与虚拟配置文件的异步呼叫。它有相同用户名作为以上示例。配置文件安装90秒绝对超时和60秒空闲超时。在本例中，我们将让连接断开。没有下面的注释，但是重要输出突出显示了。

```
*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 FFFFFFFF*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 30ppp 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-Templatelinterface Virtual-Access1default ip addressno ip addressencap pppip unnumbered Loopback0ip access-group 199 inip helper-address 172.16.24.118no ip directed-broadcastip accounting output-packetsip nat insideno keepalivepeer default ip address pool defaultcompress mppc ppp callback acceptppp authentication chap pap ms-chapppp multilinkmultilink max-links 2end*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 AAAinterface Virtual-Access1timeout absolute 1 30ppp timeout idle 60end*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/IPCPC: Start. Her address 0.0.0.0, we want 0.0.0.0*Mar 4 19:25:07.128: Vi1
AAA/AUTHOR/IPCPC: Processing AV service=ppp*Mar 4 19:25:07.128: Vi1 AAA/AUTHOR/IPCPC: Processing
AV addr=0.0.0.0*Mar 4 19:25:07.128: Vi1 AAA/AUTHOR/IPCPC: Authorization succeeded*Mar 4
19:25:07.128: Vi1 AAA/AUTHOR/IPCPC: 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/IPCPC: Start. Her address 0.0.0.0, we want
10.1.1.3*Mar 4 19:25:10.124: Vi1 AAA/AUTHOR/IPCPC: Processing AV service=ppp*Mar 4 19:25:10.124:
Vi1 AAA/AUTHOR/IPCPC: Processing AV addr=0.0.0.0*Mar 4 19:25:10.124: Vi1 AAA/AUTHOR/IPCPC:
Authorization succeeded*Mar 4 19:25:10.124: Vi1 AAA/AUTHOR/IPCPC: Done. Her address 0.0.0.0, we
want 10.1.1.3*Mar 4 19:25:10.220: Vi1 AAA/AUTHOR/IPCPC: Start. Her address 0.0.0.0, we want
10.1.1.3*Mar 4 19:25:10.220: Vi1 AAA/AUTHOR/IPCPC: Processing AV service=ppp*Mar 4 19:25:10.220:
Vi1 AAA/AUTHOR/IPCPC: Processing AV addr=0.0.0.0*Mar 4 19:25:10.220: Vi1 AAA/AUTHOR/IPCPC:
Authorization succeeded*Mar 4 19:25:10.220: Vi1 AAA/AUTHOR/IPCPC: Done. Her address 0.0.0.0, we
want 10.1.1.3*Mar 4 19:25:10.316: Vi1 AAA/AUTHOR/IPCPC: Start. Her address 10.1.1.3, we want
10.1.1.3*Mar 4 19:25:10.316: AAA/AUTHOR/IPCPC Vi1 (2714455877): Port='Async54' list=''
service=NET*Mar 4 19:25:10.316: AAA/AUTHOR/IPCPC: Vi1 (2714455877) send AV service=ppp*Mar 4
19:25:10.316: AAA/AUTHOR/IPCPC: Vi1 (2714455877) send AV protocol=ip*Mar 4 19:25:10.316:
AAA/AUTHOR/IPCPC: Vi1 (2714455877) send AV addr*10.1.1.3*Mar 4 19:25:10.316: AAA/AUTHOR/IPCPC
(2714455877) found list "default"*Mar 4 19:25:10.316: AAA/AUTHOR/IPCPC: 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/IPCPC: Processing AV service=ppp*Mar 4
19:25:10.320: Vi1 AAA/AUTHOR/IPCPC: Processing AV addr=10.1.1.3*Mar 4 19:25:10.320: Vi1
AAA/AUTHOR/IPCPC: Authorization succeeded*Mar 4 19:25:10.320: Vi1 AAA/AUTHOR/IPCPC: 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), IPCPC, 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 resetsaccess-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 connectionMar 4 19:26:10.320: As54
AAA/ACCT: non-ISDN xmit 50000 rcv 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#2interface
Virtual-Access1default ppp timeout idle 60default timeout absolute 1 30end*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#15interface
Virtual-Access1default multilink max-links 2default ppp multilinkdefault ppp authentication chap
pap ms-chapdefault ppp callback acceptdefault compress mppcdefault peer default ip address pool
defaultdefault keepalivedefault ip nat insidedefault ip accounting output-packetsdefault ip
directed-broadcastdefault ip helper-address 172.16.24.118default ip access-group 199 indefault
ip unnumbered Loopback0default encaps pppdefault ip addressend*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
```

[没有虚拟配置文件的异步呼叫](#)

下面异步呼叫没有启用的虚拟配置文件。注意拨号程序空闲**Timeout**命令使用而不是**ppp timeout idle**命令，因为我们不使用虚拟配置文件，并且没有vaccess接口。您也不会看到我们创建命令的**per-user timeout**命令，并且，同时，版本。每用户计时器命令立即安装，而命令的版本没有排队对将处理的接口，当用户断开时。

```
*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 Async27no 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 Async27no 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 resetsaccess-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 rcv 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 Async27no 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 Async27no timeout absolute***Mar 4 19:31:55.804: **As27 AAA/AUTHOR: down_event: peruser LCP txt=interface Async27no 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 Async27no 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

多链路没有虚拟配置文件的单个信道ISDN呼叫

下面多链路ISDN呼叫没有启用的虚拟配置文件。因为多链路呼叫创建vaccess接口，计时器可以容易地安装。

```
*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 30ppp 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 AAAinterface Virtual-Access1timeout absolute 1 30ppp timeout idle 60end*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 CDPCPaccess-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
resetsaccess-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#2interface Virtual-Access1default ppp timeout idle 60default timeout absolute 1
30end*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

```

没有虚拟配置文件的非多链路单个信道ISDN呼叫

下面一非多链路单个信道ISDN呼叫没有启用的虚拟配置文件。在本例中，我们运行Cisco IOS 11.3(8.2)AA，因此这些计时器可以正确地安装。然而，请注意配置命令未创建导致此；计时器在代码设置内部地。

```

*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 FFFFFFFEMar 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 msaccess-
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 resetsaccess-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 resetsaccess-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 msaccess-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

```
resetsaccess-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 rcv 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
```

与虚拟配置文件的非多链路单个信道ISDN呼叫

下面是同一个非多链路单个信道ISDN用户，但是与启用的虚拟配置文件的这次。注意vaccess接口创建，即使多链路没有协商，并且我们创建配置命令安装计时器。

```
*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 30ppp 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-Templatelinterface Virtual-Access1default ip addressno ip addressencap pppip
unnumbered Loopback0ip access-group 199 inip helper-address 172.16.24.118no ip directed-
broadcastip accounting output-packetsip nat insideno keepalivepeer default ip address pool
defaultcompress mppcppp callback acceptppp authentication chap pap ms-chappppp multilinkmultilink
max-links 2end 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**
AAAinterface Virtual-Access1timeout absolute 1 30ppp timeout idle 60end*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/PCP: Start. Her address 0.0.0.0, we want 0.0.0.0*Mar 4 19:45:02.980: Vi1
AAA/AUTHOR/PCP: Processing AV service=ppp*Mar 4 19:45:02.980: Vi1 AAA/AUTHOR/PCP: Processing
AV addr=0.0.0.0*Mar 4 19:45:02.980: Vi1 AAA/AUTHOR/PCP: Authorization succeeded*Mar 4
19:45:02.980: Vi1 AAA/AUTHOR/PCP: Done. Her address 0.0.0.0, we want 0.0.0.0*Mar 4
19:45:02.996: Vi1 AAA/AUTHOR/PCP: Start. Her address 10.1.1.3, we want 10.1.1.3*Mar 4
19:45:02.996: AAA/AUTHOR/PCP Vi1 (1804338759): Port='Serial0:18' list='' service=NET*Mar 4
19:45:02.996: AAA/AUTHOR/PCP: Vi1 (1804338759) send AV service=ppp*Mar 4 19:45:02.996:
AAA/AUTHOR/PCP: Vi1 (1804338759) send AV protocol=ip*Mar 4 19:45:02.996: AAA/AUTHOR/PCP: Vi1
(1804338759) send AV addr*10.1.1.3*Mar 4 19:45:02.996: AAA/AUTHOR/PCP (1804338759) found list
"default"*Mar 4 19:45:02.996: AAA/AUTHOR/PCP: 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/PCP: Processing AV service=ppp*Mar 4 19:45:02.996: Vi1
AAA/AUTHOR/PCP: Processing AV addr=10.1.1.3*Mar 4 19:45:02.996: Vi1 AAA/AUTHOR/PCP:
Authorization succeeded*Mar 4 19:45:02.996: Vi1 AAA/AUTHOR/PCP: 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 upaccess-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#2interface Virtual-Access1default ppp timeout idle
60default timeout absolute 1 30end*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#15interface Virtual-Access1default multilink max-
links 2default ppp multilinkdefault ppp authentication chap pap ms-chapdefault ppp callback
acceptdefault compress mppcdefault peer default ip address pool defaultdefault keepalivedefault
ip nat insidedefault ip accounting output-packetsdefault ip directed-broadcastdefault ip helper-
address 172.16.24.118default ip access-group 199 indefault ip unnumbered Loopback0default encaps
pppdefault ip addressend*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
```

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