

PPP每使用者超時

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簡介

本技術提示說明如何在Cisco存取伺服器上實作每個使用者逾時。要使每個使用者超時正常工作，必須運行Cisco IOS版本11.3(8)T或更高版本。如果您運行早期版本的Cisco IOS，計時器可能只在某些基本配置下工作，例如沒有虛擬配置檔案的非同步模式。

本檔案介紹網路存取伺服器(NAS)和驗證、授權及計量(AAA)伺服器的組態。它還提供了**show**和**debug**命令輸出，這樣您就可以確認您的裝置是否工作正常，從而調試任何問題。

[必要條件](#)

[需求](#)

本文件沒有特定需求。

[採用元件](#)

本文中的資訊係根據以下軟體和硬體版本：

- Cisco IOS版本11.3(8)T或更高版本

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

慣例

如需文件慣例的詳細資訊，請參閱[思科技術提示慣例](#)。

技術詳細資料

在討論引入其他變數（如AAA配置和RADIUS/TACACS+伺服器）的每使用者超時之前，我們將研究如何為固定超時配置接入伺服器，即全域性應用並應用於撥號的每個人的超時。

Cisco IOS的關鍵命令是**dialer idle-timeout**和**timeout absolute**。這兩個都是介面配置命令。我們還將討論第三個命令**ppp timeout idle**，該命令用於vaccess介面。

dialer idle-timeout <x>

此命令可以在任何支援撥號程式的介面上配置，並控制連線終止前可以空閒的時間（以秒為單位）。下面列出了此命令需要注意的四點：

1. 此命令只能應用於支援撥號程式的介面。預設情況下，所有ISDN介面（BRI和PRI）都支援撥號程式，因此新增此命令不會出現問題。非同步介面（包括組非同步介面）預設情況下不支援撥號程式，您必須通過輸入命令**dialer in-band**使它們支援撥號程式。只有在非同步介面上輸入**dialer in-band**命令後，才能配置**dialer idle-timeout**。附註注意：vtemplate（以及vaccess介面）不支援撥號程式（它們僅是點對點介面），因此無法使用此命令。
2. 在支援撥號程式的介面上（即ISDN或與撥號程式在頻內的非同步），預設值為**dialer idle-timeout 120**（秒）。在ISP環境中，該時間通常過短，因此幾乎應始終增加該時間。
3. 預設情況下，**dialer idle-timeout**僅在匹配撥號器清單（即認為有意義）的出站流量（流向使用者的流量）上重置。通過在命令末尾新增任一關鍵字（也就是**dialer idle-timeout 600**），也可以針對入站關注流量重置該值。
4. 被視為「感興趣」的流量由**dialer-list <n>**命令定義，其中<n>與**dialer-group <n>**命令語句中的數字匹配。

timeout absolute <x> <y>

可在任何WAN介面（包括非同步介面、ISDN介面、撥號器介面和模板介面）上配置此命令。它控制連線終止前可以啟動的時間。請注意，語法為<x> <y>，其中<x>以分鐘為單位，<y>以秒為單位。

ppp timeout idle <x>

此命令只能在vtemplate介面上配置（甚至在解析器中隱藏），並控制連線終止前可以空閒的時間（以秒為單位）。其功能與撥號器介面上的**dialer idle-timeout**命令非常相似，只有**ppp timeout idle**用於vtemplate/vaccess介面。由於此命令專門用於vtemplate/vaccess介面，因此適用於虛擬配置檔案配置（在此始終為使用者建立vaccess介面）和虛擬專用撥號網路（VPDN）主網關（在此處的投影介面始終在vaccess介面上終止）。與**dialer idle-timeout**命令不同，沒有相關流量的概念，因此所有使用者流量將重置空閒計時器。非使用者流量（例如連結控制通訊協定（LCP）keepalive和網路控制通訊協定（NCP）交涉封包）不會重設計時器。

設定

本節提供用於設定本文中所述功能的資訊。

注意：要查詢有關本文檔中使用的命令的其他資訊，請使用[命令查詢工具](#)([僅限註冊客戶](#))。

本檔案會使用以下設定：

- [基本配置 \(未啟用虛擬配置檔案\)](#)
- [全域性超時](#)
- [每使用者超時 — AAA伺服器配置](#)
- [每使用者超時 — NAS配置](#)

[基本配置 \(未啟用虛擬配置檔案\)](#)

出於學習目的，我們將採用基本配置，如下所述。虛擬配置檔案功能未開啟。

```
基本配置
!
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-Templat1 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

```

全域性超時

在下一個示例中，將為使用者強制設定30分鐘（1800秒）的空閒超時和3小時（180分鐘）的絕對超時。啟用全域性ppp超時的增量配置更改如下：

```

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

```

如果您沒有dialer-list 1，則需要定義一個。最簡單的是dialer-list 1 protocol ip permit。

如果您使用的是虛擬配置檔案，則配置會更簡單，因為您只需在虛擬模板介面上放置超時，如下所示：

```

interface Virtual-Templat1
  ppp timeout idle 1800
  timeout absolute 180

```

每使用者超時 — AAA伺服器配置

既然我們已經研究過全球超時，我們將將此知識擴展到每使用者超時。在網路授權期間，您的每使用者計時器值將下降，因此您必須將**aaa authorization network**命令配置為使用的任何方法，即RADIUS或TACACS+。另請注意，每使用者計時器將始終覆蓋NAS上預配置的所有全域性值。每個使用者計時器的工作方式是，當訪問伺服器在網路授權階段收到超時屬性時，它將將這些屬性轉換為一組配置命令，這些命令將輸入到使用者要連線的介面中。後台進程輸入到介面的這些配置命令是臨時的；使用者斷開連線時，這些埠將被刪除。

下面列出了伺服器上的幾個示例使用者配置檔案：

RADIUS設定檔

```
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
```

注意：您的語法可能因詞典設定方式而異。

TACACS+設定檔

```
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"  
    }  
}
```

每使用者超時 — NAS配置

如果只執行非同步（無ISDN）操作，並且不使用虛擬配置檔案，則只要在非同步（或組非同步）介面上配置了**dialer in-band**，每個使用者計時器應該工作。後台進程將使用**dialer idle-timeout**和**timeout absolute**命令將計時器插入到非同步介面上，並使用從RADIUS/TACACS+傳入的值將其刪除。

如果只執行非同步（無ISDN）操作，並且使用虛擬配置檔案，則不需要在非同步（或組非同步）介面上配置**dialer in-band**。應該管用。後台進程將使用**ppp timeout idle**和**timeout absolute**命令將計時器插入到vaccess介面上，並使用從RADIUS/TACACS+傳入的值將其刪除。

如果您有ISDN使用者並且需要執行每使用者計時器，則可能需要使用虛擬配置檔案。這是因為我們前面討論的後台進程不適用於ISDN介面；也就是說，您無法配置使用者所連線的B通道。唯一可以配置的是影響每個人的D通道。但是，如果使用者協商會話上的多連結，訪問伺服器將自動建立一個虛擬訪問介面，該介面用作使用者的捆綁介面。後台進程在虛擬訪問介面上有效，但在沒有虛擬訪問介面的非多鏈路ISDN呼叫上無效。因此，如果您有單個B通道使用者，這些使用者不協商多鏈路，並且希望安裝它們的每個使用者超時，則必須啟用虛擬配置檔案。啟用虛擬配置檔案會強製為所有使用者（不僅僅是多鏈路使用者）建立vaccess介面，後台進程可以成功插入**ppp timeout idle**和**timeout absolute**命令。如果您選擇不啟用虛擬配置檔案，則非同步使用者和多鏈路ISDN使用者將可以對其應用按使用者超時。但是，非多鏈路ISDN使用者不能應用每使用者超時。僅會應用介面上靜態配置的全域性超時（如果有）。如果您嘗試將每使用者超時應用到非多鏈路ISDN使用者，並且沒有開啟虛擬配置檔案，則使用者連線將無法進行授權，因為訪問伺服器無法處理強制的每使用者超時屬性。

此外，Cisco IOS 11.3(8.1)T及更新版本新增了一項功能，允許對非多重連結ISDN使用者套用每使用者逾時。它基本上會繞過通常使用的後台進程配置模式，並將計時器直接設定到B通道，而不使用命令列介面。

要總結這一複雜的設定，您可以遵循以下兩個規則：

- 如果未使用虛擬配置檔案，請在非同步介面上配置**dialer in-band**並運行Cisco IOS 11.3(8.1)T或更高版本。如果您正在運行Cisco IOS 11.3(8)T，請注意非多鏈路ISDN使用者不能對其應用每使用者超時，否則他們將無法連線。
- 如果使用虛擬配置檔案，Cisco IOS 11.3(8)T或更高版本將運行良好。

驗證

目前沒有適用於此組態的驗證程序。

疑難排解

本節提供的資訊可用於對組態進行疑難排解。為了進行調試，其中包括六個呼叫輸出示例。要直接跳至特定部分，請選擇以下連結之一：

[輸出直譯器工具](#)（僅供註冊客戶使用）支援某些**show**命令，此工具可讓您檢視**show**命令輸出的分析。

注意：發出debug命令之前，請參閱[有關Debug命令的重要資訊](#)。

- [使用虛擬配置檔案的非同步呼叫 — 連線未空閒](#)
- [使用虛擬配置檔案的非同步呼叫 — 連線停止](#)
- [無虛擬配置檔案的非同步呼叫](#)
- [無虛擬設定檔的多連結單一通道ISDN呼叫](#)
- [無虛擬設定檔的非多重連結單一通道ISDN呼叫](#)
- [具有虛擬設定檔的非多重連結單一通道ISDN呼叫](#)

附註：要檢視下面顯示的相同命令和輸出，您必須運行Cisco IOS版本11.3AA或版本12.0T。

[使用虛擬配置檔案的非同步呼叫 — 連線未空閒](#)

以下是具有虛擬配置檔案的非同步呼叫。配置檔案安裝90秒絕對超時和60秒空閒超時。在此範例中，我們不會讓連線閒置。有關詳細資訊，請參閱以下輸出中的註釋。註釋以斜體文本突出顯示。

```
!--- 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 FFFFFFFF ***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: 0 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, encaps 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 encaps 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

```

Line	User	Service	Active Time	Idle 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**

Line	User	Session Timeout	Idle Timeout	Disconnect User in
tty 53	timeout	-	-	-
As53	timeout	-	-	-
Vi1	timeout	00:01:30	00:01:00	00:00:35

access-3#**show caller**

Line	User	Service	Active Time	Idle 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**

Line	User	Session Timeout	Idle Timeout	Disconnect 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**

Line	User	Session Timeout	Idle Timeout	Disconnect 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 rcv 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 encaps 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

```

使用虛擬配置檔案的非同步呼叫 — 連線停止

以下是具有虛擬配置檔案的非同步呼叫。它與上面的示例具有相同的使用者名稱。配置檔案安裝 90 秒絕對超時和 60 秒空閒超時。在本例中，我們將讓連線空閒出去。以下沒有評論，但強調了重要的產出。

```

*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 30
ppp timeout idle 60

*Mar 4 19:25:06.928: As54 CHAP: 0 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

Line	User	Service	Active Time	Idle 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

Line	User	Service	Active Time	Idle 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

Line	User	Session Timeout	Idle Timeout	Disconnect 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 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#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 encaps 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
```

無虛擬配置檔案的非同步呼叫

以下是未啟用虛擬配置檔案的非同步呼叫。請注意，由於我們沒有使用虛擬配置檔案並且沒有 vaccess 介面，因此使用 **dialer idle-timeout** 命令而不是 **ppp timeout idle** 命令。您還將看到我們建立 **per-user timeout** 命令，同時看到這些命令的 no 版本。 **per-user timer** 命令會立即安裝，而命令的 no 版本會入隊到介面，在使用者斷開連線時進行處理。

```
*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: 0 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

Line	User	Service	Active Time	Idle 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 Session	Idle 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

Line	User	Session Timeout	Idle Timeout	Disconnect User in
tty 27	timeout	-	-	-
As27	timeout	00:01:30	00:01:00	00:00:22

access-3#show caller timeouts

Line	User	Session Timeout	Idle Timeout	Disconnect 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

```

無虛擬設定檔的多連結單一通道ISDN呼叫

以下是未啟用虛擬配置檔案的多鏈路ISDN呼叫。由於多鏈路呼叫建立了vaccess介面，因此可以方便地安裝計時器。

```

*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**

Line	User	Service	Active Time	Idle 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:
    Disconnect in: 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**

Line	User	Session Timeout	Idle Timeout	Disconnect 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

```

無虛擬設定檔的非多重連結單一通道ISDN呼叫

以下是未啟用虛擬配置檔案的非多鏈路單通道ISDN呼叫。在本範例中，我們執行Cisco IOS 11.3(8.2)AA，因此可以正確安裝這些計時器。但是請注意，並未建立任何組態指令造成此情況；計時器在代碼內部設定。

```

*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
```

Line	User	Service	Active Time	Idle Time
Se0:18	timeout	PPP	00:00:19	00:00:19

access-3#show caller timeout

Line	User	Session Timeout	Idle Timeout	Disconnect 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

Line	User	Session Timeout	Idle Timeout	Disconnect 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

Line	User	Session Timeout	Idle Timeout	Disconnect User in
Se0:18	timeout	00:01:30	00:01:00	00:00:21

access-3#show caller timeout

Line	User	Session Timeout	Idle Timeout	Disconnect 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
```

具有虛擬設定檔的非多重連結單一通道ISDN呼叫

下面是同一非多鏈路單通道ISDN使用者，但這次啟用了虛擬配置檔案。請注意，即使未協商多鏈路，也會建立vaccess介面，而且我們會建立配置命令來安裝計時器。

```
*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 30
ppp timeout idle 60

*Mar 4 19:45:02.872: Se0:18 CHAP: 0 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

```

Line	User	Service	Active Time	Idle 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

Line	User	Session Timeout	Idle Timeout	Disconnect 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

Line	User	Session Timeout	Idle Timeout	Disconnect 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

Line	User	Session Timeout	Idle Timeout	Disconnect User in
Se0:18	timeout	-	-	-
Vil	timeout	00:01:30	00:01:00	00:00:42

access-3#show caller timeouts

Line	User	Session Timeout	Idle Timeout	Disconnect User in
Se0:18	timeout	-	-	-
Vil	timeout	00:01:30	00:01:00	00:00:22

access-3#show caller

Line	User	Service	Active Time	Idle Time
Se0:18	timeout	PPP	00:01:22	00:00:57
Vil	timeout	PPP VDP	00:01:22	00:00:57

access-3#

*Mar 4 19:46:28.996: Vil PPP: Idle timeout, dropping connection

*Mar 4 19:46:28.996: Se0:18 AAA/ACCT: ISDN xmit 64000 rcv 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: Vil 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: Vil VTEMPLATE: Free vaccess

*Mar 4 19:46:29.004: Vil 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: Vil VTEMPLATE: Found a dirty vaccess clone with vtemplate/AAA

*Mar 4 19:46:29.580: Vil VTEMPLATE: ***** UNCLONE VACCESS1 *****

*Mar 4 19:46:29.580: Vil 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: Vil VTEMPLATE: Set default settings with no ip address

*Mar 4 19:46:29.616: Vil VTEMPLATE: Remove cloneblk AAA with vtemplate/AAA

*Mar 4 19:46:29.616: Vil VTEMPLATE: ***** UNCLONE VACCESS1 *****

*Mar 4 19:46:29.616: Vil 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 encaps 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
```

相關資訊

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