PPP ユーザごとのタイムアウト

内容

概要

このテクニカル ティップスでは、ユーザごとのタイムアウトを Cisco アクセス サーバに実装する方法について説明します。ユーザごとのタイムアウトを適切に動作させるには、バージョン 11.3(8)T 以降の Cisco IOS を導入する必要があります。それ以前のバージョンの Cisco IOS を導入する場合、タイマーは、仮想プロファイルを持たない非同期などの特定の基本設定でしか動作しない場合があります。

この文書では、ネットワーク アクセス サーバ（NAS）や認証、許可、および会計（AAA）サーバの設定を取り扱います。また、show および debug コマンド出力例から、使用中のデバイスが適切に動作しているかどうかを確認し、障害をデバッグすることができます。

前提条件

要件

このドキュメントに特有の要件はありません。

使用するコンポーネント

このドキュメントの情報は、次のソフトウェアとハードウェアのバージョンに基づいています。

- Cisco IOSバージョン11.3(8)T以降

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このドキュメントで使用するすべてのデバイスは、初期（デフォルト）設定の状態から起動しています。対象のネットワークが実稼働中である場合には、どのようなコマンドについても、その潜在的な影響について確実に理解しておく必要があります。

表記法

ドキュメントの表記法の詳細は、「シスコ テクニカル ティップスの表記法」を参照してください。

技術詳細

AAA 設定および RADIUS/TACACS+ サーバなどの他の変数を導入するユーザごとのタイムアウトについて説明する前に、固定タイムアウトのアクセス サーバを設定する方法について考察します。つまり、グローバル ベースですべてのダイヤル インに適用されるタイムアウトです。

基本的な Cisco IOS コマンドは、dialer idle-timeout および timeout absolute です。これらはどちらも、インターフェイス設定コマンドです。仮想アクセスインターフェイスで使用される、3 番目のコマンド ppp timeout idle についても説明します。

dialer idle-timeout <x>

このコマンドは、任意のダイヤラ対応インターフェイスで設定することができ、接続が終了する前の 接続がアイドル状態である時間（秒）を制御します。このコマンドについて注意する 4 つの点を次にリストします。

1. このコマンドは、ダイヤラ対応のインターフェイスに対してだけ適用できます。デフォルトでは、すべての ISDN インターフェイス（BRI および PRI）がダイヤラ対応なので、このコマンドの追加に問題はありません。非同期インターフェイス（グループ非同期インターフェイスを含む）は、デフォルトではダイヤラ対応ではないため、コマンド dialer in-band を入力して、これらのインターフェイスをダイヤラ対応にする必要があります。非同期インターフェイスには dialer in-band コマンドを入力後、dialer idle-timeout を設定することができます。注注：vtemplate(およびvaccessインターフェイス)はダイヤラ対応（ポイントツーポイントのみ）ではないため、このコマンドは使用できません。
2. ダイヤラ対応インターフェイス（つまり、ISDN またはダイヤラ インバンド付きの非同期）では、デフォルトは dialer idle-timeout 120（秒）です。 これは一般的に ISP 環境では短かすぎるため、ほとんどの場合はこれを増加させる必要があります。
3. デフォルトの dialer idle-timeout は、ダイヤラリスト にマッチする（つまり、対象とみなされている）送信トラフィック（ユーザ方向へのトラフィック）だけでリセットされます。コマンドの最後にキーワード either を追加することによって（つまり、dialer idle-timeout 600 either）、受信対象トラフィック用にリセットすることも可能です。
4. 「対象」と見なされるトラフィックは**dialer-list <n>コマンドで定義されます**。ここで<n>は**dialer-group <n>コマンド文**の番号と一致します。

timeout absolute <x> <y>

このコマンドは、非同期インターフェイス、ISDN インターフェイス、ダイヤラ インターフェイス、および 仮想テンプレート インターフェイスを含む、WAN インターフェイスで設定することができます。このコマンドは、接続が終了する前の、接続がアップである時間を制御します。構文 <x> <y> での、<x> には分が、<y> には秒が入ります。

ppp timeout idle <x>

このコマンドは仮想テンプレート インターフェイスでしか設定することができず（パーサーでは隠される）、接続が終了する前の接続がアイドルである時間（秒）を制御します。このコマンドの機能はダイヤラ インターフェイスの dialer idle-timeout コマンドの機能と非常に似ていますが、ppp timeout idle は仮想テンプレート仮想アクセスインターフェイス用です。このコマンドは特に仮想テンプレート仮想アクセス インターフェイスで使用されるため、仮想プロファイル 設定（仮想アクセス インターフェイスがつねにユーザ用に作成される）、および virtual private dial-up network（VPDN）ホーム ゲートウェイ（対象インターフェイスがつねに仮想アクセスインターフェイスで終了する）に適しています。 dialer idle-timeout コマンドとは異なり、対象トラフィックのコンセプトがないため、すべてのユーザ トラフィックがアイドル タイマーをリセットします。リンク制御プロトコル（LCP）キープアライブおよび Network Control Protocol（NCP）ネゴシエーション パケットなどの非ユーザ トラフィックは、タイマーをリセットしません。

設定

このセクションでは、このドキュメントで説明する機能を設定するために必要な情報を提供しています。

注：この文書で使用されているコマンドの詳細を調べるには、「Command Lookup ツール」を使用してください（登録ユーザのみ）。

このドキュメントでは、次の構成を使用します。

- 基本構成（仮想プロファイルが無効）
- グローバル タイムアウト
- ユーザごとのタイムアウト：AAA サーバ設定
- ユーザごとのタイムアウト- NAS 設定

基本構成（仮想プロファイルが無効）

ここでは、次の基本設定を学習します。仮想プロファイル機能はオンになっていません。

基本設定

```
!
version 11.3
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname access-3
!
aaa new-model
aaa authentication login default tacacs+ local
aaa authentication login console none
aaa authentication login use-radius local radius
aaa authentication enable default enable
```

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

controller T1 0
 framing esf
 clock source line primary
 linecode b8zs
 pri-group timeslots 1-24
! interface Loopback0 ip address 10.1.1.1 255.255.255.0
no ip directed-broadcast ! interface Ethernet0 ip
address 172.16.1.1 255.255.255.0 no ip directed-
broadcast ! interface Virtual-Template1 ip unnumbered
Loopback0 no ip directed-broadcast no keepalive peer
default ip address pool default ppp authentication chap
pap use-radius ppp multilink ! interface Serial0:23 ip
unnumbered Loopback0 no ip directed-broadcast
encapsulation ppp no logging event link-status no
keepalive dialer-group 1 autodetect encapsulation ppp
v120 isdn switch-type primary-5ess isdn incoming-voice
modem peer default ip address pool default no fair-queue
no cdp enable ppp max-bad-auth 3 ppp authentication chap
pap use-radius ppp multilink ! ! interface Group-Async1
ip unnumbered Loopback0 no ip directed-broadcast
encapsulation ppp no logging event link-status async
mode interactive peer default ip address pool default no
fair-queue no cdp enable ppp max-bad-auth 3 ppp
authentication chap pap use-radius ppp multilink group-
range 1 96 hold-queue 10 in ! ip local pool default
10.1.1.2 10.1.1.200 ip classless ip route 0.0.0.0
0.0.0.0 172.16.1.254 ! no logging console dialer-list 1
protocol ip permit tacacs-server host 172.16.1.201
tacacs-server key cisco radius-server host 172.16.1.202
auth-port 1645 acct-port 1646 key cisco ! line con 0
exec-timeout 0 0 authorization exec console login
authentication console transport input none line 1 96
autoselect during-login autoselect ppp modem Dialin
escape-character BREAK authorization exec use-radius
login authentication use-radius line aux 0 line vty 0 4
exec-timeout 60 0 ! end
```

グローバル タイムアウト

次の例では、ユーザに30分（1800秒）のアイドルタイムアウトと3時間（180分）の絶対タイムアウトを適用します。グローバルPPPタイムアウトを有効にするデルタ構成の変更は、次のとおりです。

```
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
```

dialer-list 1がない場合は、ダイヤラリスト1を定義する必要があります。最も簡単なのは dialer-list 1 protocol ip permit です。

仮想プロファイルを使用している場合、次のように、仮想テンプレート インターフェイスにタイムアウトを設定できるため、設定は簡単です。

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

ユーザごとのタイムアウト：AAA サーバ設定

グローバル タイムアウトについて学んだので、この知識をユーザごとのタイムアウトへ拡張します。ユーザごとのタイマー値は、ネットワーク許可中にダウンするため、使用している方式（RADIUS または TACACS+）に関わらず、aaa authorization network コマンドを設定する必要があります。また、ユーザごとのタイマーはつねに、NAS で事前に設定済みのグローバル値を無効にします。ユーザごとのタイマーの動作について説明しますと、アクセス サーバがネットワーク許可フェーズ中にタイムアウト アトリビュートを受信すると、アクセス サーバはこれらのアトリビュートを、ユーザが接続するインターフェイスに入れる設定コマンドに変換します。バックグラウンドプロセスによってインターフェイスに入力される次の設定コマンドは一時的なものです。ユーザが接続解除すると除去されます。

サーバ上のユーザプロファイルの例を次に示します。

RADIUS プロファイル

```
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：構文は、ディクショナリの設定方法によって異なる場合があります。

TACACS+ プロファイル

```
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"
        }
}
```

ユーザごとのタイムアウト- NAS 設定

非同期（ISDN ではない）だけを行い、仮想プロファイルを使用していない場合、非同期（またはグループ非同期）インターフェイスで dialer in-band が設定されている限り、ユーザごとのタイマーは動作します。バックグラウンド プロセスは、RADIUS/TACACS+ から渡された値と、dialer idle-timeout コマンドおよび timeout absolute コマンドを使用して、非同期インターフェイス上にタイマーを挿入し、ユーザが接続解除すると除去します。

非同期（ISDN ではない）だけを行い、仮想プロファイルを使用している場合、非同期（またはグループ非同期）インターフェイスで dialer in-band を設定する必要はありません。単純に動作します。バックグラウンド プロセスは、RADIUS/TACACS+ から渡される値とppp timeout idle コマンドおよび timeout absolute コマンドを使用して、仮想アクセスインターフェイス上にタイマーを挿入し、ユーザが接続解除すると除去します。

ISDN ユーザを持ち、ユーザごとのタイマーを行う必要がある場合、仮想プロファイルを使用する必要がある 可能性があります。これは、前述したバックグラウンドプロセスがISDNインターフェイスでは動作しないためです。つまり、ユーザが接続されているBチャネルを設定することはできません。設定できるのは、全員に影響を及ぼす D-channel だけです。ただし、ユーザがセッションのマルチリンクにネゴシエートする場合、アクセス サーバは、ユーザのバンドル インターフェイスとして動作する仮想アクセス インターフェイスを自動的に作成します。バックグラウンド プロセスは仮想アクセス インターフェイスで動作し、仮想アクセス インターフェイスがない非マルチリンク ISDN コールでは動作しません。そのため、マルチリンクとネゴシエートしない単一 B-channel ユーザを持ち、ユーザ用にユーザごとのタイムアウトを設定する場合、仮想プロファイルをイネーブルにする必要があります。仮想プロファイルをイネーブルにすると、すべ

てのユーザ（マルチリンク ユーザに限らない）の仮想アクセスインターフェイスが作成され、バックグラウンド プロセスは ppp timeout idle コマンドおよび timeout absolute コマンドを正常に挿入することができます。仮想プロファイルをイネーブルにしないことを選択すると、非同期ユーザおよびマルチリンク ISDN ユーザは、ユーザに適用されるユーザごとのタイムアウトを持つことができます。ただし、非マルチリンク ISDN ユーザは、ユーザに適用されるユーザごとのタイムアウトを持つことはできません。インターフェイスで静的に設定されたグローバル タイムアウトがある場合は、このタイムアウトだけ適用されます。ユーザごとのタイムアウトを非マルチリンク ISDN ユーザに適用しようとし、仮想プロファイルをオンにしていない場合、アクセスサーバは必須であるユーザごとのタイムアウト アトリビュートを処理できないため、ユーザ接続は許可に失敗します。

また、Cisco IOS 11.3(8.1)T 以降のバージョンに追加された機能により、ユーザごとのタイムアウトは非マルチリンク ISDN ユーザに適用できるようになりました。これは、コマンド ライン インターフェイスを使用しないで B-channel にタイマーを直接設定する、バックグラウンド プロセス設定モードをバイパスします。

次の 2 つのルールにしたがうと、この複雑な設定を簡略にできます。

- 仮想プロファイルを使用しない場合、非同期インターフェイスで dialer in-band を設定し、Cisco IOS 11.3(8.1)T またはそれ以降を使用する。Cisco IOS 11.3(8)T 使用中の場合、非マルチリンク ISDN ユーザは、ユーザに適用されるユーザごとのタイムアウトを持つことができません。ユーザごとのタイムアウトを適用しようとする場合は、接続に失敗します。
- 仮想プロファイルを使用している場合、Cisco IOS 11.3(8)T またはそれ以降のバージョンが効果的に動作します。

確認

現在、この設定に使用できる確認手順はありません。

トラブルシュート

ここでは、設定のトラブルシューティングに使用できる情報を示します。デバッグのために、6つのコール出力例が含まれています。特定のセクションに直接ジャンプするには、次のいずれかのリンクを選択します。

一部の show コマンドはアウトプット インタープリタ ツールによってサポートされています（登録ユーザ専用）。このツールを使用することによって、show コマンド出力の分析結果を表示できます。

注：debugコマンドを発行する前に、『debugコマンドの重要な情報』を参照してください。

- 仮想プロファイルを使用する非同期コール：接続をアイドル アウトしない場合
- 仮想プロファイルを使用する非同期コール：接続をアイドル アウトする場合
- 仮想プロファイルを使用 しない非同期コール
- 仮想プロファイルを使用しないマルチリンク シングル チャネル ISDN コール
- 仮想プロファイルを使用しない非マルチリンク シングル チャネル ISDN コール
- 仮想プロファイルを使用する非マルチリンク シングル チャネル ISDN コール

注： 下記と同じコマンドおよび出力を表示するには、Cisco IOS バージョン 11.3AA またはバージョン 12.0T を使用する必要があります。

仮想プロファイルを使用する非同期コール：接続をアイドル アウトしない場合

以下は、仮想プロファイルを使用する非同期コールです。プロファイルは、90 秒の絶対タイムアウトおよび 60 秒アイドル タイムアウトを設定します。この例では、接続をアイドル アウトしません。詳細については、下記の出力のコメントを参照してください。コメントは斜体で強調表示されます。

```
!--- ISDN setup message comes in. *Mar 4 19:21:47.772: ISDN Se0:23: RX <- SETUP pd = 8 callref =
0x09 *Mar 4 19:21:47.772: Bearer Capability i = 0x9090A2 *Mar 4 19:21:47.772: Channel ID i =
0xA98393 *Mar 4 19:21:47.772: Called Party Number i = 0xC1, '4085703932' *Mar 4 19:21:47.776:
ISDN Se0:23: TX -> CALL_PROC pd = 8 callref = 0x8009 *Mar 4 19:21:47.776: Channel ID i =
0xA98393 *Mar 4 19:21:47.776: ISDN Se0:23: TX -> ALERTING pd = 8 callref = 0x8009 !--- Modem is
allocated. *Mar 4 19:21:47.776: EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x3D, ces=0x1
bchan=0x12, event=0x1, cause=0x0 *Mar 4 19:21:47.776: VDEV_ALLOCATE: slot 1 and port 28 is
allocated. *Mar 4 19:21:47.776: EVENT_FROM_ISDN:(003D): DEV_INCALL at slot 1 and port 28 *Mar 4
19:21:47.776: CSM_PROC_IDLE: CSM_EVENT_ISDN_CALL at slot 1, port 28 *Mar 4 19:21:47.776: Mica
Modem(1/28): Configure(0x1 = 0x0) *Mar 4 19:21:47.776: Mica Modem(1/28): Configure(0x23 = 0x0)
*Mar 4 19:21:47.776: Mica Modem(1/28): Call Setup *Mar 4 19:21:47.932: Mica Modem(1/28): State
Transition to Call Setup !--- Modem goes offhook. *Mar 4 19:21:47.932: Mica Modem(1/28): Went
offhook *Mar 4 19:21:47.932: CSM_PROC_IC1_RING: CSM_EVENT_MODEM_OFFHOOK at slot 1, port 28 *Mar
4 19:21:47.932: ISDN Se0:23: TX -> CONNECT pd = 8 callref = 0x8009 *Mar 4 19:21:47.996: ISDN
Se0:23: RX <- CONNECT_ACK pd = 8 callref = 0x09 !--- DS0 is cut-through. *Mar 4 19:21:47.996:
EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x3D, ces=0x1 bchan=0x12, event=0x4, cause=0x0
*Mar 4 19:21:47.996: EVENT_FROM_ISDN:(003D): DEV_CONNECTED at slot 1 and port 28 *Mar 4
19:21:47.996: CSM_PROC_IC4_WAIT_FOR_CARRIER: CSM_EVENT_ISDN_CONNECTED at slot 1, port 28 !---
Modem training starts. *Mar 4 19:21:47.996: Mica Modem(1/28): Link Initiate *Mar 4 19:21:49.140:
Mica Modem(1/28): State Transition to Connect *Mar 4 19:21:54.276: Mica Modem(1/28): State
Transition to Link *Mar 4 19:22:05.828: Mica Modem(1/28): State Transition to Trainup *Mar 4
19:22:09.028: Mica Modem(1/28): State Transition to EC Negotiating *Mar 4 19:22:09.568: Mica
Modem(1/28): State Transition to Steady State !--- Modem training completes. *Mar 4
19:22:10.128: AAA: parse NAME=tty53 idb TYPE=10 tty=53 *Mar 4 19:22:10.128: AAA: NAME=tty53
flags=0x11 TYPE=4 shelf=0 slot=0 adapter=0 port=53 channel=0 *Mar 4 19:22:10.128: AAA: parse
NAME=Serial0:18 idb TYPE=12 tty=-1 *Mar 4 19:22:10.128: AAA: NAME=Serial0:18 flags=0x51 TYPE=1
shelf=0 slot=0 adapter=0 port=0 channel=18 !--- PPP begins negotiation. *Mar 4 19:22:11.332:
As53 LCP: Lower layer not up, Fast Starting *Mar 4 19:22:11.332: As53 PPP: Treating connection
as a dedicated line *Mar 4 19:22:11.332: As53 AAA/AUTHOR/FSM: (0): LCP succeeds trivially !---
LCP negotiation completes, authentication begins. *Mar 4 19:22:13.556: As53 PPP: Phase is
AUTHENTICATING, by this end *Mar 4 19:22:13.556: As53 CHAP: O CHALLENGE id 1 len 26 from "STACK"
*Mar 4 19:22:16.016: As53 AUTH: Started process 0 pid 45 *Mar 4 19:22:16.016: As53
AAA/AUTHOR/PER-USER: Event LCP_DOWN *Mar 4 19:22:16.208: As53 PPP: Phase is AUTHENTICATING, by
this end *Mar 4 19:22:16.208: As53 CHAP: O CHALLENGE id 2 len 26 from "STACK" !--- CHAP response
received from client. *Mar 4 19:22:16.304: As53 CHAP: I RESPONSE id 2 len 30 from "timeout" *Mar
4 19:22:16.304: AAA: parse NAME=Async53 idb TYPE=10 tty=53 *Mar 4 19:22:16.304: AAA:
NAME=Async53 flags=0x11 TYPE=4 shelf=0 slot=0 adapter=0 port=53 channel=0 *Mar 4 19:22:16.304:
AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1 *Mar 4 19:22:16.304: AAA: NAME=Serial0:18
flags=0x51 TYPE=1 shelf=0 slot=0 adapter=0 port=0 channel=18 !--- Send RADIUS query. *Mar 4
19:22:16.304: RADIUS: ustruct sharecount=1 *Mar 4 19:22:16.304: RADIUS: Initial Transmit Async53
id 0 172.16.24.117:1645, Access-Request, len 92 *Mar 4 19:22:16.304: Attribute 4 6 AC101874 *Mar
4 19:22:16.304: Attribute 5 6 00000035 *Mar 4 19:22:16.304: Attribute 61 6 00000000 *Mar 4
19:22:16.304: Attribute 1 11 74696D65 *Mar 4 19:22:16.304: Attribute 30 12 34303835 *Mar 4
19:22:16.304: Attribute 3 19 0283D0F9 *Mar 4 19:22:16.308: Attribute 6 6 00000002 *Mar 4
19:22:16.308: Attribute 7 6 00000001 !--- Received RADIUS response, note attribute 27 (Session-
Timeout -> absolute timeout) !--- is 0x5A (90) and attribute 28 (Idle-Timeout) is 0x3C (60).
*Mar 4 19:22:16.316: RADIUS: Received from id 0 172.16.24.117:1645, Access-Accept, len 50 *Mar 4
19:22:16.316: Attribute 6 6 00000002 *Mar 4 19:22:16.320: Attribute 7 6 00000001 *Mar 4
19:22:16.320: Attribute 8 6 FFFFFFFE *Mar 4 19:22:16.320:        Attribute 27 6 0000005A
*Mar 4 19:22:16.320:        Attribute 28 6 0000003C
!--- Start LCP authorization. *Mar 4 19:22:16.320: As53 AAA/AUTHOR/LCP: Authorize LCP *Mar 4
19:22:16.320: AAA/AUTHOR/LCP As53 (3506139973): Port='Async53' list='' service=NET *Mar 4
19:22:16.320: AAA/AUTHOR/LCP: As53 (3506139973) send AV service=ppp *Mar 4 19:22:16.320:
```

AAA/AUTHOR/LCP: As53 (3506139973) send AV protocol=lcp *Mar 4 19:22:16.320: AAA/AUTHOR/LCP (3506139973) found list "default" *Mar 4 19:22:16.320: AAA/AUTHOR/LCP: As53 (3506139973) METHOD=RADIUS *Mar 4 19:22:16.320: AAA/AUTHOR (3506139973): Post authorization status = PASS_REPL *!--- Gleaned per-user timeouts from user profile.* *Mar 4 19:22:16.320: As53 AAA/AUTHOR/LCP: Processing AV service=ppp **Mar 4 19:22:16.320: As53 AAA/AUTHOR/LCP: Processing AV timeout=90**

*Mar 4 19:22:16.320: As53 AAA/AUTHOR/LCP: Processing AV idletime=60

!--- Translate AAA attributes to interface configuration commands. !--- Since we are using virtual-profiles, we will use the "ppp timeout idle" !--- command instead of the "dialer in-band" command. Note that 90 second absolute timeout !--- translates to the command "timeout absolute 1 30" (1 minute and 30 seconds). ***Mar 4 19:22:16.320: AAA/AUTHOR/LCP As53: Per-user interface config created:**

timeout absolute 1 30

ppp timeout idle 60

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

interface Virtual-Access1

timeout absolute 1 30

ppp timeout idle 60

end

!--- LCP layer is finished, negotiate the appropriate NCPs. *Mar 4 19:22:16.532: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up *Mar 4 19:22:16.536: Vi1 PPP: Treating connection as a dedicated line *Mar 4 19:22:16.536: Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially *Mar 4 19:22:16.536: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP? *Mar 4 19:22:16.536: AAA/AUTHOR/FSM Vi1 (1906691625): Port='Async53' list='' service=NET *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (1906691625) send AV service=ppp *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (1906691625) send AV protocol=ip *Mar 4 19:22:16.536: AAA/AUTHOR/FSM (1906691625) found list "default" *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (1906691625) METHOD=RADIUS *Mar 4 19:22:16.536: RADIUS: Using NAS default peer *Mar 4 19:22:16.536: RADIUS: Authorize IP address 0.0.0.0 *Mar 4 19:22:16.536: AAA/AUTHOR (1906691625): Post authorization status = PASS_REPL *Mar 4 19:22:16.536: Vi1 AAA/AUTHOR/FSM: We can start IPCP *Mar 4 19:22:16.536: Vi1 AAA/AUTHOR/FSM: (0): Can we start CCP? *Mar 4 19:22:16.536: AAA/AUTHOR/FSM Vi1 (282953275): Port='Async53' list='' service=NET *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (282953275) send AV service=ppp *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (282953275) send AV protocol=ccp *Mar 4 19:22:16.536: AAA/AUTHOR/FSM (282953275) found list "default" *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (282953275) METHOD=RADIUS *Mar 4 19:22:16.540: AAA/AUTHOR (282953275): Post authorization status = PASS_REPL *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/FSM: We can start CCP *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0 *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0 *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0 *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/FSM: Processing AV service=ppp *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/FSM: Succeeded *Mar 4 19:22:16.656: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's *Mar 4 19:22:16.656: Vi1 AAA/AUTHOR/FSM: Processing AV service=ppp *Mar 4 19:22:16.656: Vi1 AAA/AUTHOR/FSM: Succeeded *Mar 4 19:22:17.536: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1, changed state to up *Mar 4 19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.1.1.3 *Mar 4 19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Processing AV

service=ppp *Mar 4 19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0 *Mar 4
19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded *Mar 4 19:22:19.516: Vi1
AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.1.1.3 *Mar 4 19:22:19.608: Vi1
AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.1.1.3 *Mar 4 19:22:19.608: Vi1
AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 4 19:22:19.608: Vi1 AAA/AUTHOR/IPCP: Processing
AV addr=0.0.0.0 *Mar 4 19:22:19.608: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded *Mar 4
19:22:19.612: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.1.1.3 *Mar 4
19:22:19.704: Vi1 AAA/AUTHOR/IPCP: Start. Her address 10.1.1.3, we want 10.1.1.3 *Mar 4
19:22:19.704: AAA/AUTHOR/IPCP Vi1 (785695075): Port='Async53' list='' service=NET *Mar 4
19:22:19.708: AAA/AUTHOR/IPCP: Vi1 (785695075) send AV service=ppp *Mar 4 19:22:19.708:
AAA/AUTHOR/IPCP: Vi1 (785695075) send AV protocol=ip *Mar 4 19:22:19.708: AAA/AUTHOR/IPCP: Vi1
(785695075) send AV addr*10.1.1.3 *Mar 4 19:22:19.708: AAA/AUTHOR/IPCP (785695075) found list
"default" *Mar 4 19:22:19.708: AAA/AUTHOR/IPCP: Vi1 (785695075) METHOD=RADIUS *Mar 4
19:22:19.708: RADIUS: Using NAS default peer *Mar 4 19:22:19.708: RADIUS: Authorize IP address
10.1.1.3 *Mar 4 19:22:19.708: AAA/AUTHOR (785695075): Post authorization status = PASS_REPL *Mar
4 19:22:19.708: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 4 19:22:19.708: Vi1
AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.3 *Mar 4 19:22:19.708: Vi1 AAA/AUTHOR/IPCP:
Authorization succeeded *Mar 4 19:22:19.708: Vi1 AAA/AUTHOR/IPCP: Done. Her address 10.1.1.3, we
want 10.1.1.3 *Mar 4 19:22:19.708: Vi1 AAA/AUTHOR/PER-USER: Event IP_UP *Mar 4 19:22:19.708: Vi1
AAA/PER-USER: processing author params. *!--- PPP negotiation finished, user is connected. !---*
User is connected on line 53, async interface 53 and vaccess 1. The "show caller" !--- command
shows active time and idle time for this user in Cisco IOS 11.3(8.1)AA or later. access-3#**show**
caller

```
                                       Active   Idle
  Line          User            Service   Time     Time
  tty 53        timeout         Async     00:00:20 00:00:02
  As53          timeout         PPP       00:00:13 00:00:02
  Vi1           timeout         PPP   VDP 00:00:13 00:00:11
```
!--- The "show caller timeout" command shows the installed absolute and idle timeout as well !---
- as how much time before the user is disconnected by any timeouts. Note the timeouts !--- only
show up on the vaccess interface. access-3#show caller timeouts Session Idle Disconnect Line
User Timeout Timeout User in tty 53 timeout - - - As53 timeout - - - **Vi1   timeout**
00:01:30 00:01:00 00:00:43
!--- The "show caller user" command gives more detailed information about the user as well as !-
-- providing a breakdown of the active and idle time, absolute and idle timeout, !--- and time
to disconnect for both idle and absolute timeout. access-3#**show caller user timeout**

```
  User: timeout, line tty 53, service Async
        Active time 00:00:31, Idle time 00:00:12
  Timeouts:           Absolute Idle    Idle
                                Session Exec
     Limits:          -        -       00:10:00
     Disconnect in:   -        -       -
  TTY: Line 53, running PPP on As53
  Location: MICA V.90 modems
  Line: Baud rate (TX/RX) is 115200/115200, no parity, 1 stopbits, 8 databits
  Status: Ready, Active, No Exit Banner, Async Interface Active
          HW PPP Support Active
  Capabilities: No Flush-at-Activation, Hardware Flowcontrol In
                Hardware Flowcontrol Out, Modem Callout, Modem RI is CD
                Line usable as async interface, ARAP Permitted
                Integrated Modem
  Modem State: Ready

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

```
                0 output errors, 0 collisions, 0 interface resets

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

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

```
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 92/108/132 ms
```
!--- Now the idle timer has been reset, so we won't disconnect the user for another !--- 58 seconds. access-3#**show caller timeout**
```
                            Session   Idle     Disconnect
  Line        User          Timeout   Timeout  User in
  tty 53      timeout        -         -        -
  As53        timeout        -         -        -
  Vi1         timeout        00:01:30  00:01:00 00:00:58
```
!--- Ping again to reset the idle timer. access-3#**ping 10.1.1.3**

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

  User: timeout, line tty 53, service Async
        Active time 00:01:23, Idle time 00:00:11
  Timeouts:          Absolute  Idle     Idle
                               Session  Exec
     Limits:         -         -        00:10:00
     Disconnect in:  -         -        -
  TTY: Line 53, running PPP on As53
```

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


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


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

!--- User is disconnected.
*Mar  4 19:23:47.536: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to down
*Mar  4 19:23:47.536: Vi1 VTEMPLATE: Free vaccess
*Mar  4 19:23:47.540: As53 AAA/ACCT: non-ISDN xmit 50000 recv 28800 hwidb 613307E0 ttynum 53
!--- Send accounting stop record, includes disc-cause 5 (session-timeout) and
!--- disc-cause-ext 1100 (session-timeout).
*Mar  4 19:23:47.540: AAA/ACCT/NET/STOP User timeout, Port Async53:
        task_id=9 timezone=PST service=ppp protocol=ip addr=10.1.1.3 disc-cause=5
disc-cause-ext=1100
pre-bytes-in=184 pre-bytes-out=330 pre-paks-in=7 pre-paks-out=11 bytes_in=950
bytes_out=567 paks_in=37
paks_out=21 pre-session-time=5 elapsed_time=91 nas-rx-speed=28800 nas-tx-speed=50000
*Mar  4 19:23:47.540: Vi1 AAA/AUTHOR/PER-USER: Event IP_DOWN
*Mar  4 19:23:47.540: Vi1 AAA/AUTHOR/PER-USER: Event LCP_DOWN
!--- Modem hangs up.
*Mar  4 19:23:47.580: Mica Modem(1/28): State Transition to Terminating
*Mar  4 19:23:47.640: Mica Modem(1/28): State Transition to Idle
*Mar  4 19:23:47.640: Mica Modem(1/28): Went onhook
*Mar  4 19:23:47.640: CSM_PROC_IC5_OC6_CONNECTED: CSM_EVENT_MODEM_ONHOOK at slot 1, port 28
*Mar  4 19:23:47.640: VDEV_DEALLOCATE: slot 1 and port 28 is deallocated

*Mar  4 19:23:47.640: ISDN Se0:23: Event: Hangup call to call id 0x3D
 !--- ISDN call is terminated. *Mar 4 19:23:47.640: ISDN Se0:23: TX -> DISCONNECT pd = 8 callref
= 0x8009 *Mar 4 19:23:47.640: Cause i = 0x8090 - Normal call clearing *Mar 4 19:23:47.688: ISDN
Se0:23: RX <- RELEASE pd = 8 callref = 0x09 *Mar 4 19:23:47.696: ISDN Se0:23: TX -> RELEASE_COMP
pd = 8 callref = 0x8009 *Mar 4 19:23:47.744: TAC+: (866083896): received acct response status =
SUCCESS !--- Per-user timeouts are taken off the vaccess interface. *Mar 4 19:23:48.140:
VTEMPLATE: Clean up dirty vaccess queue, size 1 *Mar 4 19:23:48.140: Vi1 VTEMPLATE: Found a
```

dirty vaccess clone with vtemplate/AAA *Mar 4 19:23:48.140: Vi1 VTEMPLATE: *********** UNCLONE
VACCESS1 ************* *Mar 4 19:23:48.140: Vi1 VTEMPLATE: Unclone to-be-freed command#2
interface Virtual-Access1
default ppp timeout idle 60
default timeout absolute 1 30
end

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

仮想プロファイルを使用する非同期コール：接続をアイドル アウトする場合

以下は、仮想プロファイルを使用する非同期コールです。上記の例と同じユーザ名を持ちます。
プロファイルは、90 秒の絶対タイムアウトおよび 60 秒アイドル タイムアウトを設定します。こ
の例では、接続をアイドル アウトします。下記にコメントはありませんが、重要な出力は強調表
示されています。

```
*Mar  4 19:24:38.768: ISDN Se0:23: RX <-  SETUP pd = 8  callref = 0x0A
*Mar  4 19:24:38.768:         Bearer Capability i = 0x9090A2
*Mar  4 19:24:38.768:         Channel ID i = 0xA98393
*Mar  4 19:24:38.768:         Called Party Number i = 0xC1, '4085703932'
*Mar  4 19:24:38.772: ISDN Se0:23: TX ->  CALL_PROC pd = 8  callref = 0x800A
*Mar  4 19:24:38.772:         Channel ID i = 0xA98393
*Mar  4 19:24:38.772: ISDN Se0:23: TX ->  ALERTING pd = 8  callref = 0x800A
*Mar  4 19:24:38.772: EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x3E, ces=0x1
   bchan=0x12, event=0x1, cause=0x0

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

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

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

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

*Mar  4 19:24:38.976: CSM_PROC_IC4_WAIT_FOR_CARRIER: CSM_EVENT_ISDN_CONNECTED at
slot 1, port 29
*Mar  4 19:24:38.976: Mica Modem(1/29): Link Initiate
*Mar  4 19:24:40.060: Mica Modem(1/29): State Transition to Connect
*Mar  4 19:24:45.256: Mica Modem(1/29): State Transition to Link
*Mar  4 19:24:56.796: Mica Modem(1/29): State Transition to Trainup
*Mar  4 19:24:59.996: Mica Modem(1/29): State Transition to EC Negotiating
*Mar  4 19:25:00.532: Mica Modem(1/29): State Transition to Steady State
*Mar  4 19:25:01.340: AAA: parse NAME=tty54 idb TYPE=10 tty=54
*Mar  4 19:25:01.340: AAA: NAME=tty54 flags=0x11 TYPE=4 shelf=0 slot=0
adapter=0 port=54 channel=0
*Mar  4 19:25:01.340: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:25:01.340: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:25:02.544: As54 LCP: Lower layer not up, Fast Starting
*Mar  4 19:25:02.544: As54 PPP: Treating connection as a dedicated line
*Mar  4 19:25:02.544: As54 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:25:04.744: As54 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:25:04.744: As54 CHAP: O CHALLENGE id 1 len 26 from "STACK"
*Mar  4 19:25:06.628: As54 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:25:06.820: As54 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:25:06.820: As54 CHAP: O CHALLENGE id 2 len 26 from "STACK"
*Mar  4 19:25:06.916: As54 CHAP: I RESPONSE id 2 len 30 from "timeout"
*Mar  4 19:25:06.916: AAA: parse NAME=Async54 idb TYPE=10 tty=54
*Mar  4 19:25:06.916: AAA: NAME=Async54 flags=0x11 TYPE=4 shelf=0 slot=0
adapter=0 port=54 channel=0
*Mar  4 19:25:06.916: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:25:06.916: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:25:06.916: RADIUS: ustruct sharecount=1
*Mar  4 19:25:06.916: RADIUS: Initial Transmit Async54 id 1 172.16.24.117:1645,
Access-Request, len 92
*Mar  4 19:25:06.916:         Attribute 4 6 AC101874
*Mar  4 19:25:06.916:         Attribute 5 6 00000036
*Mar  4 19:25:06.916:         Attribute 61 6 00000000
*Mar  4 19:25:06.916:         Attribute 1 11 74696D65
*Mar  4 19:25:06.916:         Attribute 30 12 34303835
*Mar  4 19:25:06.916:         Attribute 3 19 024525C7
*Mar  4 19:25:06.916:         Attribute 6 6 00000002
*Mar  4 19:25:06.916:         Attribute 7 6 00000001
*Mar  4 19:25:06.924: RADIUS: Received from id 1 172.16.24.117:1645,
Access-Accept, len 50
*Mar  4 19:25:06.924:         Attribute 6 6 00000002
*Mar  4 19:25:06.924:         Attribute 7 6 00000001
*Mar  4 19:25:06.924:         Attribute 8 6 FFFFFFFE
```
*Mar 4 19:25:06.924:   Attribute 27 6 0000005A
*Mar 4 19:25:06.928:   Attribute 28 6 0000003C
```
*Mar  4 19:25:06.928: As54 AAA/AUTHOR/LCP: Authorize LCP
*Mar  4 19:25:06.928: AAA/AUTHOR/LCP As54 (2013841092): Port='Async54' list='' service=NET
*Mar  4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) send AV service=ppp
*Mar  4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) send AV protocol=lcp
*Mar  4 19:25:06.928: AAA/AUTHOR/LCP (2013841092) found list "default"
*Mar  4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) METHOD=RADIUS
*Mar  4 19:25:06.928: AAA/AUTHOR (2013841092): Post authorization status = PASS_REPL
*Mar  4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV service=ppp
```
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP As54: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60

```
*Mar  4 19:25:06.928: As54 CHAP: O SUCCESS id 2 len 4
```

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

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

*Mar  4 19:25:07.120: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up
*Mar  4 19:25:07.124: Vi1 PPP: Treating connection as a dedicated line
*Mar  4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM Vi1 (3979277251): Port='Async54' list='' service=NET
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (3979277251) send AV service=ppp
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (3979277251) send AV protocol=ip
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM (3979277251) found list "default"
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (3979277251) METHOD=RADIUS
*Mar  4 19:25:07.124: RADIUS: Using NAS default peer
*Mar  4 19:25:07.124: RADIUS: Authorize IP address 0.0.0.0
*Mar  4 19:25:07.124: AAA/AUTHOR (3979277251): Post authorization status = PASS_REPL
*Mar  4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: We can start IPCP
*Mar  4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: (0): Can we start CCP?
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM Vi1 (1524934880): Port='Async54' list='' service=NET
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (1524934880) send AV service=ppp
*Mar  4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (1524934880) send AV protocol=ccp
*Mar  4 19:25:07.128: AAA/AUTHOR/FSM (1524934880) found list "default"
*Mar  4 19:25:07.128: AAA/AUTHOR/FSM: Vi1 (1524934880) METHOD=RADIUS
*Mar  4 19:25:07.128: AAA/AUTHOR (1524934880): Post authorization status = PASS_REPL
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: We can start CCP
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: Processing AV service=ppp
*Mar  4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: Succeeded
```

```
*Mar  4 19:25:07.236: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's
*Mar  4 19:25:07.236: Vi1 AAA/AUTHOR/FSM: Processing AV service=ppp
*Mar  4 19:25:07.236: Vi1 AAA/AUTHOR/FSM: Succeeded
*Mar  4 19:25:08.120: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up
*Mar  4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 10.1.1.3
*Mar  4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar  4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 10.1.1.3
*Mar  4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 10.1.1.3
*Mar  4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar  4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 10.1.1.3
*Mar  4 19:25:10.316: Vi1 AAA/AUTHOR/IPCP: Start.  Her address 10.1.1.3, we want 10.1.1.3
*Mar  4 19:25:10.316: AAA/AUTHOR/IPCP Vi1 (2714455877): Port='Async54' list='' service=NET
*Mar  4 19:25:10.316: AAA/AUTHOR/IPCP: Vi1 (2714455877) send AV service=ppp
*Mar  4 19:25:10.316: AAA/AUTHOR/IPCP: Vi1 (2714455877) send AV protocol=ip
*Mar  4 19:25:10.316: AAA/AUTHOR/IPCP: Vi1 (2714455877) send AV addr*10.1.1.3


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

access-3#show caller
                                            Active    Idle
  Line         User            Service      Time      Time
  tty 54       timeout         Async        00:00:17  00:00:01
  As54         timeout         PPP          00:00:10  00:00:01
  Vi1          timeout         PPP   VDP    00:00:10  00:00:08
access-3#show caller
                                            Active    Idle
  Line         User            Service      Time      Time
  tty 54       timeout         Async        00:00:27  00:00:11
  As54         timeout         PPP          00:00:20  00:00:11
  Vi1          timeout         PPP   VDP    00:00:20  00:00:18
access-3#show caller user timeout

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

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


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


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

*Mar  4 19:26:10.320: Vi1 PPP: Idle timeout, dropping connection
*Mar  4 19:26:10.320: As54 AAA/ACCT: non-ISDN xmit 50000 recv 28800 hwidb 613360C8 ttynum 54
*Mar  4 19:26:10.320: AAA/ACCT/NET/STOP User timeout, Port Async54:
        task_id=10 timezone=PST service=ppp protocol=ip addr=10.1.1.3 disc-cause=4
disc-cause-ext=1021 pre-bytes-in=184 pre-bytes-out=330 pre-paks-in=7 pre-paks-out=11
bytes_in=613 bytes_out=187 paks_in=27 paks_out=11 pre-session-time=4 elapsed_time=63
nas-rx-speed=28800 nas-tx-speed=50000
*Mar  4 19:26:10.320: Vi1 AAA/AUTHOR/PER-USER: Event IP_DOWN
*Mar  4 19:26:10.324: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to down
*Mar  4 19:26:10.324: Vi1 VTEMPLATE: Free vaccess
*Mar  4 19:26:10.328: Vi1 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:26:10.376: Mica Modem(1/29): State Transition to Terminating
*Mar  4 19:26:10.436: Mica Modem(1/29): State Transition to Idle
*Mar  4 19:26:10.436: Mica Modem(1/29): Went onhook
*Mar  4 19:26:10.436: CSM_PROC_IC5_OC6_CONNECTED: CSM_EVENT_MODEM_ONHOOK at slot 1,
port 29
*Mar  4 19:26:10.440: VDEV_DEALLOCATE: slot 1 and port 29 is deallocated


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

```
default timeout absolute 1 30
end

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

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

仮想プロファイルを使用 しない非同期コール

次は、仮想プロファイル対応がない非同期コールです。仮想プロファイルを使用せず、仮想アクセスインターフェイスがないため、ppp timeout idle コマンドの代わりに dialer idle-timeout コマンドが使用されています。また、ユーザごとのタイムアウトを作成し、同時にコマンドのnoバージョンも表示されます。ユーザーごとのタイマーコマンドは即座にインストールされ、コマンドのnoバージョンは、ユーザーが切断すると処理されるインターフェイスにキューイングされます。

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

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

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

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

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

*Mar  4 19:30:28.604: CSM_PROC_IC4_WAIT_FOR_CARRIER: CSM_EVENT_ISDN_CONNECTED
at slot 1, port 2
*Mar  4 19:30:28.604: Mica Modem(1/2): Link Initiate
*Mar  4 19:30:29.692: Mica Modem(1/2): State Transition to Connect
*Mar  4 19:30:34.888: Mica Modem(1/2): State Transition to Link
*Mar  4 19:30:46.408: Mica Modem(1/2): State Transition to Trainup
*Mar  4 19:30:49.612: Mica Modem(1/2): State Transition to EC Negotiating
*Mar  4 19:30:50.156: Mica Modem(1/2): State Transition to Steady State
*Mar  4 19:30:50.592: AAA: parse NAME=tty27 idb TYPE=10 tty=27
*Mar  4 19:30:50.592: AAA: NAME=tty27 flags=0x11 TYPE=4 shelf=0 slot=0
adapter=0 port=27 channel=0
*Mar  4 19:30:50.592: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:30:50.592: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:30:51.792: As27 LCP: Lower layer not up, Fast Starting
*Mar  4 19:30:51.792: As27 PPP: Treating connection as a callin
*Mar  4 19:30:51.792: As27 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:30:57.468: As27 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:30:57.468: As27 CHAP: O CHALLENGE id 1 len 26 from "STACK"
*Mar  4 19:30:57.564: As27 CHAP: I RESPONSE id 1 len 30 from "timeout"
*Mar  4 19:30:57.564: AAA: parse NAME=Async27 idb TYPE=10 tty=27
*Mar  4 19:30:57.564: AAA: NAME=Async27 flags=0x11 TYPE=4 shelf=0 slot=0
adapter=0 port=27 channel=0
*Mar  4 19:30:57.564: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:30:57.564: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:30:57.564: RADIUS: ustruct sharecount=1
*Mar  4 19:30:57.564: RADIUS: Initial Transmit Async27 id 3 172.16.24.117:1645,
Access-Request, len 92
*Mar  4 19:30:57.564:          Attribute 4 6 AC101874
*Mar  4 19:30:57.564:          Attribute 5 6 0000001B
*Mar  4 19:30:57.564:          Attribute 61 6 00000000
*Mar  4 19:30:57.564:          Attribute 1 11 74696D65
*Mar  4 19:30:57.564:          Attribute 30 12 34303835
*Mar  4 19:30:57.564:          Attribute 3 19 01E5C3F6
*Mar  4 19:30:57.564:          Attribute 6 6 00000002
*Mar  4 19:30:57.564:          Attribute 7 6 00000001
*Mar  4 19:30:57.572: RADIUS: Received from id 3 172.16.24.117:1645,
Access-Accept, len 50
*Mar  4 19:30:57.572:          Attribute 6 6 00000002
*Mar  4 19:30:57.572:          Attribute 7 6 00000001
*Mar  4 19:30:57.572:          Attribute 8 6 FFFFFFFE
```
*Mar 4 19:30:57.572:   Attribute 27 6 0000005A
*Mar 4 19:30:57.572:   Attribute 28 6 0000003C
```
*Mar  4 19:30:57.572: As27 AAA/AUTHOR/LCP: Authorize LCP
*Mar  4 19:30:57.572: AAA/AUTHOR/LCP As27 (1969884263): Port='Async27' list=''
service=NET
```

```
*Mar  4 19:30:57.572: AAA/AUTHOR/LCP: As27 (1969884263) send AV service=ppp
*Mar  4 19:30:57.572: AAA/AUTHOR/LCP: As27 (1969884263) send AV protocol=lcp
*Mar  4 19:30:57.572: AAA/AUTHOR/LCP (1969884263) found list "default"
*Mar  4 19:30:57.572: AAA/AUTHOR/LCP: As27 (1969884263) METHOD=RADIUS
*Mar  4 19:30:57.572: AAA/AUTHOR (1969884263): Post authorization status = PASS_REPL
*Mar  4 19:30:57.572: As27 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar  4 19:30:57.572: As27 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar  4 19:30:57.572: As27 AAA/AUTHOR: Parse 'interface Async27'
*Mar  4 19:30:57.576: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar  4 19:30:57.576: As27 AAA/AUTHOR: Parse 'timeout absolute 1 30'
*Mar  4 19:30:57.580: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar  4 19:30:57.580: As27 AAA/AUTHOR: enqueue peruser LCP txt=interface Async27
no timeout absolute

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

*Mar  4 19:30:57.588: As27 CHAP: O SUCCESS id 1 len 4
*Mar  4 19:30:57.588: AAA/ACCT/NET/START User timeout, Port Async27, List ""
*Mar  4 19:30:57.588: AAA/ACCT/NET: Found list "default"
*Mar  4 19:30:57.692: As27 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar  4 19:30:57.692: AAA/AUTHOR/FSM As27 (2088523207): Port='Async27' list=''
service=NET
*Mar  4 19:30:57.692: AAA/AUTHOR/FSM: As27 (2088523207) send AV service=ppp
*Mar  4 19:30:57.692: AAA/AUTHOR/FSM: As27 (2088523207) send AV protocol=ip
*Mar  4 19:30:57.692: AAA/AUTHOR/FSM (2088523207) found list "default"
*Mar  4 19:30:57.692: AAA/AUTHOR/FSM: As27 (2088523207) METHOD=RADIUS
*Mar  4 19:30:57.692: RADIUS: Using NAS default peer
*Mar  4 19:30:57.692: RADIUS: Authorize IP address 10.1.1.6
*Mar  4 19:30:57.692: AAA/AUTHOR (2088523207): Post authorization status = PASS_REPL
*Mar  4 19:30:57.692: As27 AAA/AUTHOR/FSM: We can start IPCP
*Mar  4 19:30:57.784: As27 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
*Mar  4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
*Mar  4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
*Mar  4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:31:00.888: As27 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 10.1.1.6
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Start.  Her address 10.1.1.6, we want 10.1.1.6
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Done.  Her address 10.1.1.6, we want 10.1.1.6
*Mar  4 19:31:00.984: As27 AAA/AUTHOR/PER-USER: Event IP_UP
*Mar  4 19:31:00.984: As27 AAA/PER-USER: processing author params.

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

```
access-3#show caller user timeout

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


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


access-3#show caller timeouts
                                 Session   Idle      Disconnect
  Line         User              Timeout   Timeout   User in
  tty 27       timeout           -         -         -
  As27         timeout           00:01:30  00:01:00  00:00:22
access-3#show caller timeouts
                                 Session   Idle      Disconnect
  Line         User              Timeout   Timeout   User in
  tty 27       timeout           -         -         -
  As27         timeout           00:01:30  00:01:00  00:00:07
access-3#
*Mar  4 19:31:53.824: Mica Modem(1/2): State Transition to Terminating
*Mar  4 19:31:53.884: Mica Modem(1/2): State Transition to Idle
*Mar  4 19:31:53.884: Mica Modem(1/2): Went onhook
*Mar  4 19:31:53.884: CSM_PROC_IC5_OC6_CONNECTED: CSM_EVENT_MODEM_ONHOOK at slot 1, port 2
*Mar  4 19:31:53.884: VDEV_DEALLOCATE: slot 1 and port 2 is deallocated

*Mar  4 19:31:53.888: ISDN Se0:23: Event: Hangup call to call id 0x40
*Mar  4 19:31:53.888: ISDN Se0:23: TX ->  DISCONNECT pd = 8  callref = 0x8006
*Mar  4 19:31:53.888:          Cause i = 0x8090 - Normal call clearing
*Mar  4 19:31:53.940: ISDN Se0:23: RX <-  RELEASE pd = 8  callref = 0x06
*Mar  4 19:31:53.952: ISDN Se0:23: TX ->  RELEASE_COMP pd = 8  callref = 0x8006
*Mar  4 19:31:55.792: As27 AAA/ACCT: non-ISDN xmit 50000 recv 28800 hwidb 611CEBC0 ttynum 27
*Mar  4 19:31:55.792: AAA/ACCT/NET/STOP User timeout, Port Async27:
        task_id=12 timezone=PST service=ppp protocol=ip addr=10.1.1.6 disc-cause=4
disc-cause-ext=1021 pre-bytes-in=135 pre-bytes-out=176 pre-paks-in=5 pre-paks-out=6
bytes_in=1480 bytes_out=171 paks_in=25 paks_out=9 pre-session-time=6 elapsed_time=58
nas-rx-speed=28800 nas-tx-speed=50000
*Mar  4 19:31:55.792: As27 AAA/AUTHOR/PER-USER: Event IP_DOWN
*Mar  4 19:31:55.792: As27 AAA/AUTHOR/PER-USER: Event LCP_DOWN
```

```
*Mar  4 19:31:55.792: As27 AAA/AUTHOR: down_event: peruser LCP txt=interface Async27
no timeout absolute

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

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

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

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

仮想プロファイルを使用しないマルチリンク シングル チャネル ISDN コール

次は、仮想プロファイルを使用しない場合のマルチリンク ISDN コールです。マルチリンク コールは 仮想アクセスインターフェイスを作成するので、タイマーは容易に設定できます。

```
*Mar  4 19:41:12.208: ISDN Se0:23: RX <-  SETUP pd = 8  callref = 0x08
*Mar  4 19:41:12.212:         Bearer Capability i = 0x8890
*Mar  4 19:41:12.212:         Channel ID i = 0xA98393
*Mar  4 19:41:12.212:         Calling Party Number i = '!', 0x80, '4085551200'
*Mar  4 19:41:12.212:         Called Party Number i = 0xA1, '4085703930'
*Mar  4 19:41:12.212: ISDN Se0:23: TX -> CALL_PROC pd = 8  callref = 0x8008
*Mar  4 19:41:12.212:         Channel ID i = 0xA98393
*Mar  4 19:41:12.224: ISDN Se0:23: TX -> CONNECT pd = 8  callref = 0x8008
*Mar  4 19:41:12.224:         Channel ID i = 0xA98393
*Mar  4 19:41:12.296: ISDN Se0:23: RX <-  CONNECT_ACK pd = 8  callref = 0x08
*Mar  4 19:41:12.536: Se0:18 PPP: Treating connection as a callin
*Mar  4 19:41:12.536: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:41:14.536: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:41:14.552: Se0:18 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:41:14.552: Se0:18 CHAP: O CHALLENGE id 1 len 26 from "STACK"
*Mar  4 19:41:14.584: Se0:18 CHAP: I RESPONSE id 1 len 30 from "timeout"
*Mar  4 19:41:14.964: Se0:18 CHAP: I RESPONSE id 1 len 30 from "timeout"
*Mar  4 19:41:14.964: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:41:14.964: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:41:14.964: AAA: parse NAME= idb TYPE=-1 tty=-1
*Mar  4 19:41:14.964: RADIUS: ustruct sharecount=1
*Mar  4 19:41:14.964: RADIUS: Initial Transmit Serial0:18 id 4 172.16.24.117:1645,
Access-Request, len 104
*Mar  4 19:41:14.964:         Attribute 4 6 AC101874
*Mar  4 19:41:14.964:         Attribute 5 6 00004E32
*Mar  4 19:41:14.964:         Attribute 61 6 00000002
*Mar  4 19:41:14.964:         Attribute 1 11 74696D65
*Mar  4 19:41:14.964:         Attribute 30 12 34303835
```

```
*Mar  4 19:41:14.964:          Attribute 31 12 34303835
*Mar  4 19:41:14.964:          Attribute 3 19 012C4E14
*Mar  4 19:41:14.964:          Attribute 6 6 00000002
*Mar  4 19:41:14.964:          Attribute 7 6 00000001
*Mar  4 19:41:14.972: RADIUS: Received from id 4 172.16.24.117:1645, Access-Accept, len 50
*Mar  4 19:41:14.972:          Attribute 6 6 00000002
*Mar  4 19:41:14.972:          Attribute 7 6 00000001
*Mar  4 19:41:14.972:          Attribute 8 6 FFFFFFFE
*Mar  4 19:41:14.972:          Attribute 27 6 0000005A
*Mar  4 19:41:14.972:          Attribute 28 6 0000003C
*Mar  4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Authorize LCP
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP Se0:18 (4039479425): Port='Serial0:18' list=''
service=NET
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) send AV service=ppp
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) send AV protocol=lcp
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP (4039479425) found list "default"
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) METHOD=RADIUS
*Mar  4 19:41:14.976: AAA/AUTHOR (4039479425): Post authorization status = PASS_REPL
*Mar  4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar  4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar  4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar  4 19:41:14.976: AAA/AUTHOR/LCP Se0:18: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60

*Mar  4 19:41:14.976: Se0:18 CHAP: O SUCCESS id 1 len 4
*Mar  4 19:41:14.976: AAA/ACCT/NET/START User timeout, Port Serial0:18, List ""
*Mar  4 19:41:14.976: AAA/ACCT/NET: Found list "default"
*Mar  4 19:41:14.976: AAA/AUTHOR/MLP Se0:18 (1966034416): Port='Serial0:18' list=''
service=NET
*Mar  4 19:41:14.976: AAA/AUTHOR/MLP: Se0:18 (1966034416) send AV service=ppp
*Mar  4 19:41:14.976: AAA/AUTHOR/MLP: Se0:18 (1966034416) send AV protocol=multilink
*Mar  4 19:41:14.976: AAA/AUTHOR/MLP (1966034416) found list "default"
*Mar  4 19:41:14.976: AAA/AUTHOR/MLP: Se0:18 (1966034416) METHOD=RADIUS
*Mar  4 19:41:14.976: AAA/AUTHOR (1966034416): Post authorization status = PASS_REPL
*Mar  4 19:41:14.976: Vi1 VTEMPLATE: Reuse Vi1, recycle queue size 0
*Mar  4 19:41:14.980: Vi1 VTEMPLATE: Hardware address 00e0.1e81.636c
*Mar  4 19:41:14.980: Vi1 VTEMPLATE: Has a new cloneblk dialer, now it has dialer
*Mar  4 19:41:14.980: Vi1 VTEMPLATE: Has a new cloneblk AAA, now it has dialer/AAA
*Mar  4 19:41:14.980: Vi1 VTEMPLATE: ************* CLONE VACCESS1 ****************
*Mar  4 19:41:14.980: Vi1 VTEMPLATE: Clone from AAA
interface Virtual-Access1
timeout absolute 1 30
ppp timeout idle 60
end

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

```
*Mar  4 19:41:15.000: AAA/AUTHOR/FSM: Vi1 (3065122210) METHOD=RADIUS
*Mar  4 19:41:15.000: AAA/AUTHOR (3065122210): Post authorization status = PASS_REPL
*Mar  4 19:41:15.000: Vi1 AAA/AUTHOR/FSM: We can start CDPCP


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


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


  User: timeout, line Vi1, service PPP Bundle
        Active time 00:00:25, Idle time 00:00:26
  Timeouts:           Absolute  Idle
      Limits:         00:01:30  00:01:00
      Disconnect in:  00:01:04  00:00:33
  PPP: LCP Open, multilink Open
        Idle timer 60 secs, idle 26 secs
  Dialer: Connected to 4085551200, inbound
          Type is IN-BAND SYNC, group Serial0:23
  IP: Local 10.1.1.1
      Access list (I/O) is 199/not set
  Bundle: First link of timeout/timeout, 1 link, last input 00:00:27
  Counts: 0 packets input, 0 bytes, 0 no buffer
          0 input errors, 0 CRC, 0 frame, 0 overrun
          13 packets output, 236 bytes, 0 underruns
          0 output errors, 0 collisions, 0 interface resets


access-3#show caller timeout
                                  Session   Idle      Disconnect
  Line         User               Timeout   Timeout   User in
  Se0:18       timeout            -         -         -
  Vi1          timeout            00:01:30  00:01:00  00:00:30
access-3#
*Mar  4 19:42:14.996: Vi1 PPP: Idle timeout, dropping connection
*Mar  4 19:42:14.996: Vi1 VTEMPLATE: Free vaccess
*Mar  4 19:42:14.996: Se0:18 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:42:15.000: Vi1 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:42:15.004: Se0:18 AAA/ACCT: ISDN xmit 64000 recv 64000 hwidb 612048BC
*Mar  4 19:42:15.004: AAA/ACCT/NET/STOP User timeout, Port Serial0:18:
        task_id=13 timezone=PST service=ppp mlp-links-max=1 mlp-links-current=1
mlp-sess-id=0 disc-cause=18 disc-cause-ext=1046 pre-bytes-in=125 pre-bytes-out=99
pre-paks-in=4 pre-paks-out=4 bytes_in=228 bytes_out=436 paks_in=15 paks_out=26
pre-session-time=3 elapsed_time=60 nas-rx-speed=64000 nas-tx-speed=64000
*Mar  4 19:42:15.008: ISDN Se0:23: TX -> DISCONNECT pd = 8  callref = 0x8008
*Mar  4 19:42:15.008:           Cause i = 0x8090 - Normal call clearing
*Mar  4 19:42:15.060: ISDN Se0:23: RX <-  RELEASE pd = 8  callref = 0x08
*Mar  4 19:42:15.072: ISDN Se0:23: TX -> RELEASE_COMP pd = 8  callref = 0x8008
```

```
*Mar  4 19:42:15.212: TAC+: (2571416724): received acct response status = SUCCESS
*Mar  4 19:42:15.500: VTEMPLATE: Clean up dirty vaccess queue, size 1
*Mar  4 19:42:15.500: Vi1 VTEMPLATE: Found a dirty vaccess clone with dialer/AAA
*Mar  4 19:42:15.500: Vi1 VTEMPLATE: ************ UNCLONE VACCESS1 *************
*Mar  4 19:42:15.500: Vi1 VTEMPLATE: Unclone to-be-freed command#2
interface Virtual-Access1
default ppp timeout idle 60
default timeout absolute 1 30
end

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

仮想プロファイルを使用しない非マルチリンク シングル チャネル ISDN コール

次は、仮想プロファイルを使用しない場合の、非マルチリンク シングルチャネル ISDN コールです。この例では、Cisco IOS 11.3(8.2)AA を使用しているので、これらのタイマーは正しく設定されます。ただし、この原因となる設定コマンドは作成されていないことに注意してください。the timers were set internally in the code.

```
*Mar  4 19:43:00.404: ISDN Se0:23: RX <-  SETUP pd = 8  callref = 0x0E
*Mar  4 19:43:00.404:         Bearer Capability i = 0x8890
*Mar  4 19:43:00.404:         Channel ID i = 0xA98393
*Mar  4 19:43:00.404:         Calling Party Number i = '!', 0x80, '4085551200'
*Mar  4 19:43:00.404:         Called Party Number i = 0xA1, '4085703930'
*Mar  4 19:43:00.404: ISDN Se0:23: TX -> CALL_PROC pd = 8  callref = 0x800E
*Mar  4 19:43:00.408:         Channel ID i = 0xA98393
*Mar  4 19:43:00.416: ISDN Se0:23: TX -> CONNECT pd = 8  callref = 0x800E
*Mar  4 19:43:00.416:         Channel ID i = 0xA98393
*Mar  4 19:43:00.488: ISDN Se0:23: RX <-  CONNECT_ACK pd = 8  callref = 0x0E
*Mar  4 19:43:00.720: Se0:18 PPP: Treating connection as a callin
*Mar  4 19:43:00.720: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:43:02.744: Se0:18 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:43:02.744: Se0:18 CHAP: O CHALLENGE id 2 len 26 from "STACK"
*Mar  4 19:43:02.776: Se0:18 CHAP: I RESPONSE id 2 len 30 from "timeout"
*Mar  4 19:43:02.776: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:43:02.776: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:43:02.776: AAA: parse NAME= idb TYPE=-1 tty=-1
*Mar  4 19:43:02.780: RADIUS: ustruct sharecount=1
*Mar  4 19:43:02.780: RADIUS: Initial Transmit Serial0:18 id 5 172.16.24.117:1645,
Access-Request, len 104
*Mar  4 19:43:02.780:         Attribute 4 6 AC101874
*Mar  4 19:43:02.780:         Attribute 5 6 00004E32
*Mar  4 19:43:02.780:         Attribute 61 6 00000002
*Mar  4 19:43:02.780:         Attribute 1 11 74696D65
*Mar  4 19:43:02.780:         Attribute 30 12 34303835
*Mar  4 19:43:02.780:         Attribute 31 12 34303835
*Mar  4 19:43:02.780:         Attribute 3 19 02AE5572
*Mar  4 19:43:02.780:         Attribute 6 6 00000002
*Mar  4 19:43:02.780:         Attribute 7 6 00000001
*Mar  4 19:43:02.784: RADIUS: Received from id 5 172.16.24.117:1645, Access-Accept, len 50
*Mar  4 19:43:02.784:         Attribute 6 6 00000002
*Mar  4 19:43:02.784:         Attribute 7 6 00000001
*Mar  4 19:43:02.784:         Attribute 8 6 FFFFFFFE
*Mar  4 19:43:02.784:         Attribute 27 6 0000005A
*Mar  4 19:43:02.784:         Attribute 28 6 0000003C
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Authorize LCP
*Mar  4 19:43:02.788: AAA/AUTHOR/LCP Se0:18 (900316608): Port='Serial0:18' list=''
```

```
service=NET
*Mar  4 19:43:02.788: AAA/AUTHOR/LCP: Se0:18 (900316608) send AV service=ppp
*Mar  4 19:43:02.788: AAA/AUTHOR/LCP: Se0:18 (900316608) send AV protocol=lcp
*Mar  4 19:43:02.788: AAA/AUTHOR/LCP (900316608) found list "default"
*Mar  4 19:43:02.788: AAA/AUTHOR/LCP: Se0:18 (900316608) METHOD=RADIUS
*Mar  4 19:43:02.788: AAA/AUTHOR (900316608): Post authorization status = PASS_REPL
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar  4 19:43:02.788: Se0:18 CHAP: O SUCCESS id 2 len 4
*Mar  4 19:43:02.788: AAA/ACCT/NET/START User timeout, Port Serial0:18, List ""
*Mar  4 19:43:02.788: AAA/ACCT/NET: Found list "default"
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar  4 19:43:02.788: AAA/AUTHOR/FSM Se0:18 (3608739008): Port='Serial0:18' list=''
service=NET
*Mar  4 19:43:02.788: AAA/AUTHOR/FSM: Se0:18 (3608739008) send AV service=ppp
*Mar  4 19:43:02.788: AAA/AUTHOR/FSM: Se0:18 (3608739008) send AV protocol=ip
*Mar  4 19:43:02.788: AAA/AUTHOR/FSM (3608739008) found list "default"
*Mar  4 19:43:02.788: AAA/AUTHOR/FSM: Se0:18 (3608739008) METHOD=RADIUS
*Mar  4 19:43:02.788: RADIUS: Using NAS default peer
*Mar  4 19:43:02.788: RADIUS: Authorize IP address 0.0.0.0
*Mar  4 19:43:02.788: AAA/AUTHOR (3608739008): Post authorization status = PASS_REPL
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/FSM: We can start IPCP
*Mar  4 19:43:02.788: Se0:18 AAA/AUTHOR/FSM: (0): Can we start CDPCP?
*Mar  4 19:43:02.792: AAA/AUTHOR/FSM Se0:18 (3955392150): Port='Serial0:18' list=''
service=NET
*Mar  4 19:43:02.792: AAA/AUTHOR/FSM: Se0:18 (3955392150) send AV service=ppp
*Mar  4 19:43:02.792: AAA/AUTHOR/FSM: Se0:18 (3955392150) send AV protocol=cdp
*Mar  4 19:43:02.792: AAA/AUTHOR/FSM (3955392150) found list "default"
*Mar  4 19:43:02.792: AAA/AUTHOR/FSM: Se0:18 (3955392150) METHOD=RADIUS
*Mar  4 19:43:02.792: AAA/AUTHOR (3955392150): Post authorization status = PASS_REPL
*Mar  4 19:43:02.792: Se0:18 AAA/AUTHOR/FSM: We can start CDPCP
*Mar  4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar  4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0, we want 0.0.0.0
*Mar  4 19:43:02.808: Se0:18 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's
*Mar  4 19:43:02.808: Se0:18 AAA/AUTHOR/FSM: Processing AV service=ppp
*Mar  4 19:43:02.808: Se0:18 AAA/AUTHOR/FSM: Succeeded
*Mar  4 19:43:02.816: Se0:18 AAA/AUTHOR/IPCP: Start.  Her address 10.1.1.3, we want 10.1.1.3
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP Se0:18 (2267743837): Port='Serial0:18' list=''
service=NET
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) send AV service=ppp
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) send AV protocol=ip
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) send AV addr*10.1.1.3
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP (2267743837) found list "default"
*Mar  4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) METHOD=RADIUS
*Mar  4 19:43:02.816: RADIUS: Using NAS default peer
*Mar  4 19:43:02.816: RADIUS: Authorize IP address 10.1.1.3
*Mar  4 19:43:02.816: AAA/AUTHOR (2267743837): Post authorization status = PASS_REPL
*Mar  4 19:43:02.816: Se0:18 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  4 19:43:02.820: Se0:18 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.3
*Mar  4 19:43:02.820: Se0:18 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  4 19:43:02.820: Se0:18 AAA/AUTHOR/IPCP: Done.  Her address 10.1.1.3,
we want 10.1.1.3
*Mar  4 19:43:02.824: Se0:18 AAA/AUTHOR/PER-USER: Event IP_UP
*Mar  4 19:43:02.824: Se0:18 AAA/PER-USER: processing author params.
access-3#show caller
                                            Active    Idle
  Line        User            Service       Time      Time
  Se0:18      timeout         PPP           00:00:19  00:00:19
access-3#show caller timeout
                                Session   Idle      Disconnect
```

```
  Line          User                    Timeout   Timeout   User in
  Se0:18        timeout                 00:01:30  00:01:00  00:00:37
access-3#ping 10.1.1.3

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

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


access-3#show caller user timeout

  User: timeout, line Se0:18, service PPP
        Active time 00:00:45, Idle time 00:00:17
  Timeouts:            Absolute  Idle
     Limits:           00:01:30  00:01:00
     Disconnect in:    00:00:44  00:00:42
  PPP: LCP Open, multilink Closed, CHAP (<- AAA), IPCP, CDPCP
  Dialer: Connected to 4085551200, inbound
          Idle timer 60 secs, idle 17 secs
          Type is ISDN, group Serial0:23
  IP: Local 10.1.1.1, remote 10.1.1.3
      Access list (I/O) is 199/not set
  Counts: 52 packets input, 2120 bytes, 0 no buffer
          11 input errors, 2 CRC, 3 frame, 0 overrun
          59 packets output, 2249 bytes, 0 underruns
          0 output errors, 0 collisions, 45 interface resets


access-3#ping 10.1.1.3

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

  User: timeout, line Se0:18, service PPP
        Active time 00:01:02, Idle time 00:00:04
  Timeouts:            Absolute  Idle
     Limits:           00:01:30  00:01:00
     Disconnect in:    00:00:27  00:00:55
  PPP: LCP Open, multilink Closed, CHAP (<- AAA), IPCP, CDPCP
  Dialer: Connected to 4085551200, inbound
          Idle timer 60 secs, idle 4 secs
```

```
          Type is ISDN, group Serial0:23
   IP: Local 10.1.1.1, remote 10.1.1.3
      Access list (I/O) is 199/not set
   Counts: 60 packets input, 2688 bytes, 0 no buffer
         11 input errors, 2 CRC, 3 frame, 0 overrun
         67 packets output, 2817 bytes, 0 underruns
         0 output errors, 0 collisions, 45 interface resets


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

仮想プロファイルを使用する非マルチリンク シングル チャネル ISDN コール

次は、同じ非マルチリンクシングル チャネル ISDN ユーザですが、今度は仮想プロファイルに対応しています。マルチリンクがネゴシエートされない場合でも、仮想アクセスインターフェイスは作成され、設定コマンドが作成されてタイマーを設定します。

```
*Mar  4 19:45:00.480: ISDN Se0:23: RX <- SETUP pd = 8  callref = 0x0C
*Mar  4 19:45:00.480:          Bearer Capability i = 0x8890
*Mar  4 19:45:00.480:          Channel ID i = 0xA98393
*Mar  4 19:45:00.480:          Calling Party Number i = '!', 0x80, '4085551200'
*Mar  4 19:45:00.480:          Called Party Number i = 0xA1, '4085703930'
*Mar  4 19:45:00.480: ISDN Se0:23: TX -> CALL_PROC pd = 8  callref = 0x800C
*Mar  4 19:45:00.480:          Channel ID i = 0xA98393
*Mar  4 19:45:00.492: ISDN Se0:23: TX -> CONNECT pd = 8  callref = 0x800C
*Mar  4 19:45:00.492:          Channel ID i = 0xA98393
*Mar  4 19:45:00.564: ISDN Se0:23: RX <- CONNECT_ACK pd = 8  callref = 0x0C
*Mar  4 19:45:00.804: Se0:18 PPP: Treating connection as a callin
*Mar  4 19:45:00.804: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:45:02.804: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  4 19:45:02.828: Se0:18 PPP: Phase is AUTHENTICATING, by this end
*Mar  4 19:45:02.828: Se0:18 CHAP: O CHALLENGE id 3 len 26 from "STACK"
*Mar  4 19:45:02.860: Se0:18 CHAP: I RESPONSE id 3 len 30 from "timeout"
*Mar  4 19:45:02.860: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar  4 19:45:02.860: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar  4 19:45:02.860: AAA: parse NAME= idb TYPE=-1 tty=-1
*Mar  4 19:45:02.860: RADIUS: ustruct sharecount=1
*Mar  4 19:45:02.860: RADIUS: Initial Transmit Serial0:18 id 6 172.16.24.117:1645,
Access-Request, len 104
*Mar  4 19:45:02.860:          Attribute 4 6 AC101874
*Mar  4 19:45:02.860:          Attribute 5 6 00004E32
```

```
*Mar  4 19:45:02.860:          Attribute 61 6 00000002
*Mar  4 19:45:02.864:          Attribute 1 11 74696D65
*Mar  4 19:45:02.864:          Attribute 30 12 34303835
*Mar  4 19:45:02.864:          Attribute 31 12 34303835
*Mar  4 19:45:02.864:          Attribute 3 19 03D4E134
*Mar  4 19:45:02.864:          Attribute 6 6 00000002
*Mar  4 19:45:02.864:          Attribute 7 6 00000001
*Mar  4 19:45:02.868: RADIUS: Received from id 6 172.16.24.117:1645, Access-Accept, len 50
*Mar  4 19:45:02.868:          Attribute 6 6 00000002
*Mar  4 19:45:02.868:          Attribute 7 6 00000001
*Mar  4 19:45:02.868:          Attribute 8 6 FFFFFFFE
*Mar  4 19:45:02.868:          Attribute 27 6 0000005A
*Mar  4 19:45:02.868:          Attribute 28 6 0000003C
*Mar  4 19:45:02.868: Se0:18 AAA/AUTHOR/LCP: Authorize LCP
*Mar  4 19:45:02.868: AAA/AUTHOR/LCP Se0:18 (2825271150): Port='Serial0:18' list=''
service=NET
*Mar  4 19:45:02.868: AAA/AUTHOR/LCP: Se0:18 (2825271150) send AV service=ppp
*Mar  4 19:45:02.868: AAA/AUTHOR/LCP: Se0:18 (2825271150) send AV protocol=lcp
*Mar  4 19:45:02.868: AAA/AUTHOR/LCP (2825271150) found list "default"
*Mar  4 19:45:02.868: AAA/AUTHOR/LCP: Se0:18 (2825271150) METHOD=RADIUS
*Mar  4 19:45:02.872: AAA/AUTHOR (2825271150): Post authorization status = PASS_REPL
*Mar  4 19:45:02.872: Se0:18 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar  4 19:45:02.872: Se0:18 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar  4 19:45:02.872: Se0:18 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar  4 19:45:02.872: AAA/AUTHOR/LCP Se0:18: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60


*Mar  4 19:45:02.872: Se0:18 CHAP: O SUCCESS id 3 len 4
*Mar  4 19:45:02.872: AAA/ACCT/NET/START User timeout, Port Serial0:18, List ""
*Mar  4 19:45:02.872: AAA/ACCT/NET: Found list "default"
*Mar  4 19:45:02.872: Vi1 VTEMPLATE: Reuse Vi1, recycle queue size 0
*Mar  4 19:45:02.872: Vi1 VTEMPLATE: Hardware address 00e0.1e81.636c
*Mar  4 19:45:02.872: Vi1 VTEMPLATE: Has a new cloneblk vtemplate, now it has vtemplate
*Mar  4 19:45:02.872: Vi1 VTEMPLATE: ************* CLONE VACCESS1 ****************
*Mar  4 19:45:02.872: Vi1 VTEMPLATE: Clone from Virtual-Template1
interface Virtual-Access1
default ip address
no ip address
encap ppp
ip unnumbered Loopback0
ip access-group 199 in
ip helper-address 172.16.24.118
no ip directed-broadcast
ip accounting output-packets
ip nat inside
no keepalive
peer default ip address pool default
compress mppc
ppp callback accept
ppp authentication chap pap ms-chap
ppp multilink
multilink max-links 2
end


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

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

                                              Active    Idle
  Line          User              Service     Time      Time

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

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

  User: timeout, line Vi1, service PPP VDP
        Active time 00:00:15, Idle time 00:00:15
  Timeouts:           Absolute  Idle
```

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


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

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

  User: timeout, line Se0:18, service PPP
        Active time 00:00:34, Idle time 00:00:09
  Timeouts:          Absolute  Idle
      Limits:         -         -
      Disconnect in:  -         -
    PPP: LCP Open, multilink Closed, CHAP (<- AAA)
    Dialer: Connected to 4085551200, inbound
            Idle timer 60 secs, idle 9 secs
            Type is ISDN, group Serial0:23
    IP: Local 10.1.1.1
        Access list (I/O) is 199/not set
    Counts: 88 packets input, 3843 bytes, 0 no buffer
            11 input errors, 2 CRC, 3 frame, 0 overrun
            94 packets output, 3971 bytes, 0 underruns
            0 output errors, 0 collisions, 47 interface resets

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

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


access-3#show caller timeout
                                Session   Idle     Disconnect
  Line         User            Timeout   Timeout   User in
  Se0:18       timeout         -         -         -
```

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

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

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

```
changed state to down
```

関連情報

- [ダイヤル テクノロジーに関するサポート ページ](#)
- [テクニカルサポート - Cisco Systems](#)