

Timeout PPP per utente

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[Introduzione](#)

Questo suggerimento tecnico spiega come implementare i timeout per utente sui server di accesso Cisco. Per il corretto funzionamento dei timeout per utente, è necessario eseguire Cisco IOS versione 11.3(8)T o successive. Se si esegue una versione precedente di Cisco IOS, i timer potrebbero funzionare solo in alcune configurazioni di base, ad esempio solo asincrone senza profili virtuali.

In questo documento viene descritta la configurazione del server di accesso alla rete (NAS) e del server di autenticazione, autorizzazione e accounting (AAA). Inoltre, fornisce l'output del comando **show** ed **debug** per consentire di verificare che i dispositivi funzionino correttamente e di eseguire il debug degli eventuali problemi.

[Prerequisiti](#)

[Requisiti](#)

Nessun requisito specifico previsto per questo documento.

Componenti usati

Le informazioni fornite in questo documento si basano sulle seguenti versioni software e hardware:

- Cisco IOS versione 11.3(8)T o successive

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

Convenzioni

Per ulteriori informazioni sulle convenzioni usate, consultare il documento [Cisco sulle convenzioni nei suggerimenti tecnici](#).

Dettagli tecnici

Prima di esaminare i timeout per utente, che comportano altre variabili come la configurazione AAA e i server RADIUS/TACACS+, esamineremo come configurare un server di accesso per i timeout fissi, ossia i timeout applicati su base globale e applicati a tutti gli utenti che effettuano la chiamata.

I comandi principali di Cisco IOS sono **dialer idle-timeout** e **timeout assoluto**. Entrambi sono comandi di configurazione interfaccia. Verrà inoltre descritto un terzo comando, **ppp timeout idle**, utilizzato sulle interfacce vaccess.

dialer idle-timeout <x>

Questo comando può essere configurato su qualsiasi interfaccia con supporto dialer e controlla per quanto tempo la connessione può rimanere inattiva (in secondi) prima di essere terminata. Di seguito sono elencati quattro punti che è necessario notare per questo comando:

1. Questo comando può essere applicato solo alle interfacce che supportano la connessione telefonica. Per impostazione predefinita, tutte le interfacce ISDN (BRI e PRI) supportano la connessione telefonica, quindi l'aggiunta di questo comando non costituisce un problema. Per impostazione predefinita, le interfacce asincrone (incluse le interfacce gruppo-asincrone) non supportano la connessione telefonica. A tale scopo, è necessario immettere il comando **dialer in-band**. Solo dopo aver immesso il comando **dialer in-band** sull'interfaccia asincrona è possibile configurare **dialer idle-timeout**. **NotaNota:** il vtemplate (e quindi le interfacce vaccess) non sono compatibili con la funzione dialer (sono solo point-to-point) e quindi non possono utilizzare questo comando.
2. Su un'interfaccia con connessione dialer (ISDN o asincrona con connessione dialer in-band), il valore predefinito è **dialer idle-timeout 120** (secondi). Si tratta in genere di un valore troppo breve in un ambiente ISP, pertanto è consigliabile aumentarlo quasi sempre.
3. Per impostazione predefinita, il **dialer idle-timeout** viene reimpostato solo sul traffico in uscita (traffico verso l'utente) che corrisponde all'elenco di composizione (ossia, viene considerato

interessante). È possibile reimpostarla per il traffico in entrata interessante, oltre ad aggiungere la parola chiave **either** alla fine del comando (ossia **dialer idle-timeout 600 o**).

4. Il traffico considerato "interessante" viene definito dal comando **dialer-list <n>**, dove **<n>** corrisponde al numero specificato nell'istruzione del comando **dialer-group <n>** .

timeout assoluto <x> <y>

Questo comando può essere configurato su qualsiasi interfaccia WAN, incluse le interfacce asincrone, ISDN, dialer e vtemplate. Controlla per quanto tempo la connessione può rimanere attiva prima di essere terminata. Si noti che la sintassi è **<x> <y>**, dove **<x>** è espressa in minuti e **<y>** in secondi.

timeout ppp inattivo <x>

Questo comando può essere configurato solo sulle interfacce vtemplate (ed è persino nascosto nel parser) e controlla per quanto tempo la connessione può rimanere inattiva (in secondi) prima di essere terminata. La sua funzione è molto simile a quella del comando **dialer idle-timeout** sulle interfacce dialer, solo il **timeout ppp inattivo** è per le interfacce vtemplate/vaccess. Poiché viene utilizzato in modo specifico sulle interfacce vtemplate/vaccess, questo comando è appropriato per le configurazioni dei profili virtuali (in cui un'interfaccia vaccess viene sempre creata per un utente) e per i gateway della rete domestica VPDN (Virtual Private Dial-up Network) (in cui le interfacce proiettate vengono sempre terminate su un'interfaccia vaccess). A differenza del comando **dialer idle-timeout**, non si parla di traffico interessante e quindi tutto il traffico degli utenti ripristinerà il timer di inattività. Il traffico non utente, ad esempio i pacchetti di negoziazione LCP (Link Control Protocol) e NCP (Network Control Protocol), non reimposta il timer.

Configurazione

In questa sezione vengono presentate le informazioni necessarie per configurare le funzionalità descritte più avanti nel documento.

Nota: per ulteriori informazioni sui comandi menzionati in questo documento, usare lo [strumento di ricerca dei comandi](#) (solo utenti [registrati](#)).

Nel documento vengono usate queste configurazioni:

- [Configurazione di base \(profili virtuali non abilitati\)](#)
- [Timeout globali](#)
- [Timeout per utente - Configurazione server AAA](#)
- [Timeout per utente - Configurazione NAS](#)

Configurazione di base (profili virtuali non abilitati)

Per scopi di apprendimento, si presuppone una configurazione di base come quella riportata di seguito. La funzionalità dei profili virtuali non è attivata.

Configurazione di base
<pre>! version 11.3 service timestamps debug datetime msec service timestamps log datetime msec</pre>

```
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$0MKx$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
```

Timeout globali

Nell'esempio successivo, viene imposto un timeout di inattività di 30 minuti (1800 secondi) e un timeout assoluto di tre ore (180 minuti) per gli utenti. La modifica della configurazione delta che abiliterà i **timeout ppp globali** sarà la seguente:

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

Se non si dispone di un elenco di composizione 1, sarà necessario definirne uno. Il più semplice sarebbe **dialer-list 1 protocol ip permission**.

Se si stavano utilizzando profili virtuali, la configurazione può essere più semplice in quanto è possibile inserire il timeout nell'**interfaccia del modello virtuale**, come mostrato di seguito:

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

Timeout per utente - Configurazione server AAA

Ora che abbiamo lavorato sui timeout globali, estenderemo questa conoscenza ai timeout per utente. I valori del timer per utente scenderanno durante l'autorizzazione della rete, quindi è necessario avere il comando **aaa authorization network (rete di autorizzazione aaa)** configurato sul metodo che si sta usando, ossia RADIUS o TACACS+. Si noti inoltre che i timer per utente sostituiranno sempre qualsiasi valore globale preconfigurato sul NAS. Il funzionamento dei timer per utente prevede che quando il server di accesso riceve gli attributi di timeout durante la fase di autorizzazione di rete, converta questi attributi in un set di comandi di configurazione che verranno immessi nell'interfaccia a cui l'utente sarà connesso. I comandi di configurazione immessi nell'interfaccia da un processo in background sono temporanei; vengono rimossi quando l'utente si disconnette.

Di seguito sono elencati alcuni profili utente di esempio sul server:

Profili RADIUS

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

```
timeout-idle-ppp Password = "cisco"
 Service-Type = Framed,
```

```
Framed-Protocol = PPP
Framed-IP-Address = 255.255.255.254,
Idle-Timeout = 300
```

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

Nota: la sintassi può variare a seconda della configurazione del dizionario.

Profili TACACS+

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

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

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

[Timeout per utente - Configurazione NAS](#)

Se si sta eseguendo solo operazioni asincrone (senza ISDN) e non si utilizzano profili virtuali, purché sia stato configurato **dialer in-band** sulle interfacce asincrone (o group-async), i timer per utente dovrebbero funzionare. Il processo in background inserirà i timer sull'interfaccia asincrona, usando i comandi **dialer idle-timeout** e **timeout absolute** con i valori passati da RADIUS/TACACS+, e li toglierà quando l'utente si disconnette.

Se si sta eseguendo solo operazioni asincrone (senza ISDN) e si stanno utilizzando profili virtuali, non è necessario configurare **dialer in-band** sull'interfaccia asincrona (o gruppo-asincrono). Dovrebbe funzionare e basta. Il processo in background inserirà i timer sull'interfaccia vaccess usando i comandi **ppp timeout idle** e **timeout absolute** con i valori passati da RADIUS/TACACS+, e li eliminerà quando l'utente si disconnette.

Se si dispone di utenti ISDN ed è necessario eseguire timer per utente, potrebbe essere necessario utilizzare profili virtuali. Il motivo è che il processo di background descritto in precedenza non funziona per le interfacce ISDN. ovvero non è possibile configurare il canale B al quale l'utente è connesso. L'unica cosa che si può configurare è il canale D che ha effetto su tutti. Tuttavia, se un utente negozia il collegamento multiplo su una sessione, il server di accesso crea automaticamente un'interfaccia di accesso virtuale che funge da interfaccia di bundle per l'utente. Il processo in background funziona sulle interfacce di accesso virtuale, ma non su una chiamata ISDN non a connessione multipla in cui non è presente un'interfaccia di accesso virtuale. Pertanto, se si dispone di singoli utenti del canale B che non negoziano il collegamento multiplo e si desidera installare per essi timeout per utente, è necessario abilitare i profili virtuali. L'abilitazione dei profili virtuali forza la creazione di un'interfaccia vaccess per tutti gli utenti (non solo per gli utenti multilink) e il processo in background può inserire correttamente i comandi **ppp timeout idle** e **timeout absolute**. Se si sceglie di non abilitare i profili virtuali, gli utenti asincroni e gli utenti ISDN con connessione multipla potranno applicare timeout per utente. Agli utenti ISDN non collegati a più connessioni non è tuttavia possibile applicare timeout per utente. Verranno applicati solo gli eventuali timeout globali configurati staticamente sull'interfaccia. Se si tenta di applicare timeout per utente a un utente ISDN non a connessione multipla e non sono attivati profili virtuali, la connessione utente non riuscirà a ottenere l'autorizzazione perché il server di accesso non è in grado di elaborare gli attributi di timeout obbligatori per utente.

Inoltre, Cisco IOS versione 11.3(8.1)T e successive è dotato di una funzionalità che consente di applicare timeout per utente agli utenti ISDN non multilink. Ignora essenzialmente la modalità di configurazione del processo in background che viene generalmente utilizzata e imposta i timer direttamente sul canale B senza utilizzare l'interfaccia della riga di comando.

Per riepilogare questa complessa impostazione, è possibile seguire due regole:

- Se non si utilizzano profili virtuali, configurare il **dialer in-band** sulle interfacce asincrone ed eseguire Cisco IOS versione 11.3(8.1)T o successive. Se si esegue Cisco IOS versione 11.3(8)T, tenere presente che agli utenti ISDN non collegati a più connessioni non può essere applicato il timeout per utente, altrimenti la connessione non riuscirà.
- Se si utilizzano profili virtuali, Cisco IOS versione 11.3(8)T o successive funzionerà correttamente.

Verifica

Attualmente non è disponibile una procedura di verifica per questa configurazione.

Risoluzione dei problemi

Le informazioni contenute in questa sezione permettono di risolvere i problemi relativi alla configurazione. Ai fini del debug, sono inclusi sei esempi di output di chiamata. Per passare direttamente a una sezione specifica, selezionare uno dei collegamenti seguenti:

Alcuni comandi **show** sono supportati dallo [strumento Output Interpreter \(solo utenti registrati\)](#); lo [strumento permette di visualizzare un'analisi dell'output del comando show](#).

Nota: prima di usare i comandi di **debug**, consultare le [informazioni importanti sui comandi di debug](#).

- [Chiamata asincrona con profili virtuali - La connessione non si interrompe](#)
- [Chiamata asincrona con profili virtuali - Connessione interrotta](#)
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- [Chiamata ISDN a canale singolo non Multilink con profili virtuali](#)

Nota: Per visualizzare gli stessi comandi e output mostrati di seguito, è necessario usare Cisco IOS versione 11.3A o versione 12.0T.

[Chiamata asincrona con profili virtuali - La connessione non si interrompe](#)

Di seguito è riportata una chiamata asincrona con profili virtuali. Il profilo installa un timeout assoluto di 90 secondi e un timeout di inattività di 60 secondi. In questo esempio, la connessione non verrà interrotta. Per ulteriori informazioni, vedere i commenti nell'output seguente. I commenti sono evidenziati e in corsivo.

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

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

```

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

```

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

```

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

```

```

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

```

```

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

```

Modem State: Ready

User: timeout, line As53, service PPP

Active time 00:00:23, Idle time 00:00:12

Timeouts: Absolute Idle

Limits: - -

Disconnect in: - -

PPP: LCP Open, multilink Closed, CHAP (<- AAA)

IP: Local 10.1.1.1

Counts: 35 packets input, 820 bytes, 0 no buffer

0 input errors, 0 CRC, 0 frame, 0 overrun

22 packets output, 517 bytes, 0 underruns

0 output errors, 0 collisions, 0 interface resets

User: timeout, line Vi1, service PPP VDP

Active time 00:00:24, Idle time 00:00:22

Timeouts: Absolute Idle

Limits: 00:01:30 00:01:00

Disconnect in: 00:01:05 00:00:37

PPP: LCP Open, multilink Closed, CHAP (<- none), IPCP, CCP

Idle timer 60 secs, idle 22 secs

IP: Local 10.1.1.1, remote 10.1.1.3

Access list (I/O) is 199/not set

Counts: 24 packets input, 542 bytes, 0 no buffer

0 input errors, 0 CRC, 0 frame, 0 overrun

19 packets output, 167 bytes, 0 underruns

0 output errors, 0 collisions, 0 interface resets

access-3#show caller timeout

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

access-3#show caller

Line	User	Service	Active Time	Idle Time
tty 53	timeout	Async	00:00:45	00:00:27
As53	timeout	PPP	00:00:38	00:00:27
Vi1	timeout	PPP VDP	00:00:38	00:00:36

!--- User has been idle for 36 seconds and will be disconnected in 24 seconds. Let's !--- ping the user to see what happens. access-3#ping 10.1.1.3

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 92/108/132 ms

!--- Now the idle timer has been reset, so we won't disconnect the user for another !--- 58 seconds. access-3#show caller timeout

Line	User	Session Timeout	Idle Timeout	Disconnect User in
tty 53	timeout	-	-	-
As53	timeout	-	-	-
Vi1	timeout	00:01:30	00:01:00	00:00:58

!--- Ping again to reset the idle timer. access-3#ping 10.1.1.3

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 96/98/108 ms

!--- But note, the disconnect timer did not go back to 1 minute. The reason is because the !--- absolute timer is going to start soon. access-3#show caller timeout

Line	User	Session Timeout	Idle Timeout	Disconnect User in
------	------	-----------------	--------------	--------------------

```
tty 53      timeout      -      -      -
As53       timeout      -      -      -
Vi1       timeout      00:01:30 00:01:00 00:00:24
```

access-3#**show caller user timeout**

User: timeout, line tty 53, service Async

Active time 00:01:23, Idle time 00:00:11

```
Timeouts:      Absolute  Idle      Idle
                Session   Exec
Limits:        -          -          00:10:00
Disconnect in: -          -          -
```

TTY: Line 53, running PPP on As53

Location: MICA V.90 modems

Line: Baud rate (TX/RX) is 115200/115200, no parity, 1 stopbits, 8 databits

Status: Ready, Active, No Exit Banner, Async Interface Active

HW PPP Support Active

Capabilities: No Flush-at-Activation, Hardware Flowcontrol In

Hardware Flowcontrol Out, Modem Callout, Modem RI is CD

Line usable as async interface, ARAP Permitted

Integrated Modem

Modem State: Ready

User: timeout, line As53, service PPP

Active time 00:01:15, Idle time 00:00:11

```
Timeouts:      Absolute  Idle
Limits:        -          -
Disconnect in: -          -
```

PPP: LCP Open, multilink Closed, CHAP (<- AAA)

IP: Local 10.1.1.1

Counts: 45 packets input, 1161 bytes, 0 no buffer

0 input errors, 0 CRC, 0 frame, 0 overrun

32 packets output, 897 bytes, 0 underruns

0 output errors, 0 collisions, 0 interface resets

User: timeout, line Vi1, service PPP VDP

Active time 00:01:16, Idle time 00:00:12

```
Timeouts:      Absolute  Idle
Limits:        00:01:30 00:01:00
Disconnect in: 00:00:13 00:00:47
```

PPP: LCP Open, multilink Closed, CHAP (<- none), IPCP, CCP

Idle timer 60 secs, idle 12 secs

IP: Local 10.1.1.1, remote 10.1.1.3

Access list (I/O) is 199/not set

Counts: 34 packets input, 883 bytes, 0 no buffer

0 input errors, 0 CRC, 0 frame, 0 overrun

39 packets output, 547 bytes, 0 underruns

0 output errors, 0 collisions, 0 interface resets

!--- User is disconnected.

*Mar 4 19:23:47.536: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to down

*Mar 4 19:23:47.536: Vi1 VTEMPLATE: Free vaccess

*Mar 4 19:23:47.540: As53 AAA/ACCT: non-ISDN xmit 50000 rcv 28800 hwidb 613307E0 ttynum 53

!--- Send accounting stop record, includes disc-cause 5 (session-timeout) and

!--- disc-cause-ext 1100 (session-timeout).

*Mar 4 19:23:47.540: AAA/ACCT/NET/STOP User timeout, Port Async53:

task_id=9 timezone=PST service=ppp protocol=ip addr=10.1.1.3 disc-cause=5

disc-cause-ext=1100

pre-bytes-in=184 pre-bytes-out=330 pre-paks-in=7 pre-paks-out=11 bytes_in=950

bytes_out=567 paks_in=37

paks_out=21 pre-session-time=5 elapsed_time=91 nas-rx-speed=28800 nas-tx-speed=50000

*Mar 4 19:23:47.540: Vi1 AAA/AUTHOR/PER-USER: Event IP_DOWN

*Mar 4 19:23:47.540: Vi1 AAA/AUTHOR/PER-USER: Event LCP_DOWN

!--- Modem hangs up.

*Mar 4 19:23:47.580: Mica Modem(1/28): State Transition to Terminating

```

*Mar 4 19:23:47.640: Mica Modem(1/28): State Transition to Idle
*Mar 4 19:23:47.640: Mica Modem(1/28): Went onhook
*Mar 4 19:23:47.640: CSM_PROC_IC5_OC6_CONNECTED: CSM_EVENT_MODEM_ONHOOK at slot 1, port 28
*Mar 4 19:23:47.640: VDEV_DEALLOCATE: slot 1 and port 28 is deallocated

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

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

```

[Chiamata asincrona con profili virtuali - Connessione interrotta](#)

Di seguito è riportata una chiamata asincrona con profili virtuali. Ha lo stesso nome utente dell'esempio precedente. Il profilo installa un timeout assoluto di 90 secondi e un timeout di inattività di 60 secondi. In questo esempio la connessione verrà interrotta. Non ci sono commenti qui sotto, ma è stato evidenziato un output importante.

```

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

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

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

```

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

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

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

```

*Mar 4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) send AV protocol=lcp
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP (2013841092) found list "default"
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) METHOD=RADIUS
*Mar 4 19:25:06.928: AAA/AUTHOR (2013841092): Post authorization status = PASS_REPL
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP As54: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60

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

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

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

```

```

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

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

```

access-3#show caller

Line	User	Service	Active Time	Idle Time
tty 54	timeout	Async	00:00:17	00:00:01
As54	timeout	PPP	00:00:10	00:00:01
Vi1	timeout	PPP VDP	00:00:10	00:00:08

access-3#show caller

Line	User	Service	Active Time	Idle Time
tty 54	timeout	Async	00:00:27	00:00:11
As54	timeout	PPP	00:00:20	00:00:11
Vi1	timeout	PPP VDP	00:00:20	00:00:18

access-3#show caller user timeout

```

User: timeout, line tty 54, service Async
Active time 00:00:49, Idle time 00:00:34
Timeouts:
Absolute Idle Idle
Session Exec

```



```

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

```

```

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

```

```

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

```

access-3#show caller timeouts

Line	User	Session Timeout	Idle Timeout	Disconnect User in
tty 54	timeout	-	-	-
As54	timeout	-	-	-
Vi1	timeout	00:01:30	00:01:00	00:00:05

```

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

```

```

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

```

```

interface Virtual-Access1
default ppp timeout idle 60
default timeout absolute 1 30
end

```

```

*Mar 4 19:26:11.200: Vi1 VTEMPLATE: Set default settings with no ip address
*Mar 4 19:26:11.216: Vi1 VTEMPLATE: Remove cloneblk AAA with vtemplate/AAA
*Mar 4 19:26:11.216: Vi1 VTEMPLATE: ***** UNCLONE VACCESS1 *****
*Mar 4 19:26:11.216: Vi1 VTEMPLATE: Unclone to-be-freed command#15

```

```

interface Virtual-Access1
default multilink max-links 2
default ppp multilink
default ppp authentication chap pap ms-chap
default ppp callback accept
default compress mppc
default peer default ip address pool default
default keepalive
default ip nat inside
default ip accounting output-packets
default ip directed-broadcast
default ip helper-address 172.16.24.118
default ip access-group 199 in
default ip unnumbered Loopback0
default encaps ppp
default ip address
end

```

```

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

```

[Chiamata asincrona senza profili virtuali](#)

Di seguito è riportata una chiamata asincrona senza profili virtuali abilitati. Notare che il comando **dialer idle-timeout** viene usato al posto del comando **ppp timeout idle** perché non si stanno usando profili virtuali e non c'è un'interfaccia vaccess. Vengono inoltre visualizzati la creazione del comando **per utente timeout** e, allo stesso tempo, la versione **no** dei comandi. I comandi **timer per utente** vengono installati immediatamente, mentre la versione **no** dei comandi viene accodata all'interfaccia per essere elaborata quando l'utente si disconnette.

*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
adapater=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
adapater=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
adapater=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
adapater=0 port=0 channel=18
*Mar 4 19:30:57.564: RADIUS: ustruct sharecount=1
*Mar 4 19:30:57.564: RADIUS: Initial Transmit Async27 id 3 172.16.24.117:1645,
Access-Request, len 92
*Mar 4 19:30:57.564: Attribute 4 6 AC101874
*Mar 4 19:30:57.564: Attribute 5 6 0000001B
*Mar 4 19:30:57.564: Attribute 61 6 00000000
*Mar 4 19:30:57.564: Attribute 1 11 74696D65
*Mar 4 19:30:57.564: Attribute 30 12 34303835

```
*Mar 4 19:30:57.564: Attribute 3 19 01E5C3F6
*Mar 4 19:30:57.564: Attribute 6 6 00000002
*Mar 4 19:30:57.564: Attribute 7 6 00000001
*Mar 4 19:30:57.572: RADIUS: Received from id 3 172.16.24.117:1645,
Access-Accept, len 50
*Mar 4 19:30:57.572: Attribute 6 6 00000002
*Mar 4 19:30:57.572: Attribute 7 6 00000001
*Mar 4 19:30:57.572: Attribute 8 6 FFFFFFFE
*Mar 4 19:30:57.572: Attribute 27 6 0000005A
*Mar 4 19:30:57.572: Attribute 28 6 0000003C
*Mar 4 19:30:57.572: As27 AAA/AUTHOR/LCP: Authorize LCP
*Mar 4 19:30:57.572: AAA/AUTHOR/LCP As27 (1969884263): Port='Async27' list=''
service=NET
*Mar 4 19:30:57.572: AAA/AUTHOR/LCP: As27 (1969884263) send AV service=ppp
*Mar 4 19:30:57.572: AAA/AUTHOR/LCP: As27 (1969884263) send AV protocol=lcp
*Mar 4 19:30:57.572: AAA/AUTHOR/LCP (1969884263) found list "default"
*Mar 4 19:30:57.572: AAA/AUTHOR/LCP: As27 (1969884263) METHOD=RADIUS
*Mar 4 19:30:57.572: AAA/AUTHOR (1969884263): Post authorization status = PASS_REPL
*Mar 4 19:30:57.572: As27 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar 4 19:30:57.572: As27 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar 4 19:30:57.572: As27 AAA/AUTHOR: Parse 'interface Async27'
*Mar 4 19:30:57.576: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar 4 19:30:57.576: As27 AAA/AUTHOR: Parse 'timeout absolute 1 30'
*Mar 4 19:30:57.580: As27 AAA/AUTHOR: Parse returned ok (0)
*Mar 4 19:30:57.580: As27 AAA/AUTHOR: enqueue peruser LCP txt=interface Async27
no timeout absolute

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

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

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

access-3#**show caller**

Line	User	Service	Active Time	Idle Time
tty 27	timeout	Async	00:00:23	00:00:04
As27	timeout	PPP	00:00:22	00:00:20

access-3#**show caller user timeout**

```
User: timeout, line tty 27, service Async
  Active time 00:00:28, Idle time 00:00:08
Timeouts:
  Absolute Idle 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**

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

access-3#**show caller timeouts**

Line	User	Session Timeout	Idle Timeout	Disconnect User in
tty 27	timeout	-	-	-
As27	timeout	00:01:30	00:01:00	00:00:07

access-3#

```
*Mar 4 19:31:53.824: Mica Modem(1/2): State Transition to Terminating
*Mar 4 19:31:53.884: Mica Modem(1/2): State Transition to Idle
*Mar 4 19:31:53.884: Mica Modem(1/2): Went onhook
*Mar 4 19:31:53.884: CSM_PROC_IC5_OC6_CONNECTED: CSM_EVENT_MODEM_ONHOOK at slot 1, port 2
*Mar 4 19:31:53.884: VDEV_DEALLOCATE: slot 1 and port 2 is deallocated
```

```

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

```

[Chiamata ISDN a canale singolo Multilink senza profili virtuali](#)

Di seguito è riportata una chiamata ISDN a connessione multipla senza profili virtuali abilitati. Poiché una chiamata a connessione multipla crea un'interfaccia vaccess, i timer possono essere installati facilmente.

```

*Mar 4 19:41:12.208: ISDN Se0:23: RX <- SETUP pd = 8 callref = 0x08
*Mar 4 19:41:12.212: Bearer Capability i = 0x8890
*Mar 4 19:41:12.212: Channel ID i = 0xA98393
*Mar 4 19:41:12.212: Calling Party Number i = '!', 0x80, '4085551200'
*Mar 4 19:41:12.212: Called Party Number i = 0xA1, '4085703930'
*Mar 4 19:41:12.212: ISDN Se0:23: TX -> CALL_PROC pd = 8 callref = 0x8008
*Mar 4 19:41:12.212: Channel ID i = 0xA98393
*Mar 4 19:41:12.224: ISDN Se0:23: TX -> CONNECT pd = 8 callref = 0x8008
*Mar 4 19:41:12.224: Channel ID i = 0xA98393
*Mar 4 19:41:12.296: ISDN Se0:23: RX <- CONNECT_ACK pd = 8 callref = 0x08
*Mar 4 19:41:12.536: Se0:18 PPP: Treating connection as a callin
*Mar 4 19:41:12.536: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar 4 19:41:14.536: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar 4 19:41:14.552: Se0:18 PPP: Phase is AUTHENTICATING, by this end
*Mar 4 19:41:14.552: Se0:18 CHAP: O CHALLENGE id 1 len 26 from "STACK"

```

```

*Mar 4 19:41:14.584: Se0:18 CHAP: I RESPONSE id 1 len 30 from "timeout"
*Mar 4 19:41:14.964: Se0:18 CHAP: I RESPONSE id 1 len 30 from "timeout"
*Mar 4 19:41:14.964: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar 4 19:41:14.964: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar 4 19:41:14.964: AAA: parse NAME= idb TYPE=-1 tty=-1
*Mar 4 19:41:14.964: RADIUS: ustruct sharecount=1
*Mar 4 19:41:14.964: RADIUS: Initial Transmit Serial0:18 id 4 172.16.24.117:1645,
Access-Request, len 104
*Mar 4 19:41:14.964: Attribute 4 6 AC101874
*Mar 4 19:41:14.964: Attribute 5 6 00004E32
*Mar 4 19:41:14.964: Attribute 61 6 00000002
*Mar 4 19:41:14.964: Attribute 1 11 74696D65
*Mar 4 19:41:14.964: Attribute 30 12 34303835
*Mar 4 19:41:14.964: Attribute 31 12 34303835
*Mar 4 19:41:14.964: Attribute 3 19 012C4E14
*Mar 4 19:41:14.964: Attribute 6 6 00000002
*Mar 4 19:41:14.964: Attribute 7 6 00000001
*Mar 4 19:41:14.972: RADIUS: Received from id 4 172.16.24.117:1645, Access-Accept, len 50
*Mar 4 19:41:14.972: Attribute 6 6 00000002
*Mar 4 19:41:14.972: Attribute 7 6 00000001
*Mar 4 19:41:14.972: Attribute 8 6 FFFFFFFE
*Mar 4 19:41:14.972: Attribute 27 6 0000005A
*Mar 4 19:41:14.972: Attribute 28 6 0000003C
*Mar 4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Authorize LCP
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP Se0:18 (4039479425): Port='Serial0:18' list=''
service=NET
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) send AV service=ppp
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) send AV protocol=lcp
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP (4039479425) found list "default"
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) METHOD=RADIUS
*Mar 4 19:41:14.976: AAA/AUTHOR (4039479425): Post authorization status = PASS_REPL
*Mar 4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar 4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar 4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP Se0:18: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60

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

*Mar 4 19:41:14.996: Vi1 PPP: Treating connection as a callin
*Mar 4 19:41:14.996: AAA/AUTHOR/MLP Vi1: Processing AV service=ppp
*Mar 4 19:41:15.000: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar 4 19:41:15.000: AAA/AUTHOR/FSM Vi1 (921779905): Port='Serial0:18' list='' service=NET

```

```

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

```

access-3#show caller

Line	User	Service	Active Time	Idle Time
Se0:18	timeout	PPP	00:00:19	00:00:00
Vi1	timeout	PPP Bundle	00:00:19	00:00:20

access-3#show caller user timeout

```

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

```

```

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

```

access-3#show caller timeout

Line	User	Session Timeout	Idle Timeout	Disconnect User in
Se0:18	timeout	-	-	-
Vi1	timeout	00:01:30	00:01:00	00:00:30

access-3#


```

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

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

```

[Chiamata ISDN a canale singolo non Multilink senza profili virtuali](#)

Di seguito è riportata una chiamata ISDN a canale singolo non multilink senza profili virtuali abilitati. Nell'esempio, viene eseguito Cisco IOS 11.3(8.2)A per consentire la corretta installazione dei timer. Tuttavia, si noti che non è stato creato alcun comando di configurazione per questa causa; i timer sono stati impostati internamente nel codice.

```

*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 FFFFFFFF
*Mar 4 19:43:02.784: Attribute 27 6 0000005A
*Mar 4 19:43:02.784: Attribute 28 6 0000003C
*Mar 4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Authorize LCP
*Mar 4 19:43:02.788: AAA/AUTHOR/LCP Se0:18 (900316608): Port='Serial0:18' list=''
service=NET
*Mar 4 19:43:02.788: AAA/AUTHOR/LCP: Se0:18 (900316608) send AV service=ppp
*Mar 4 19:43:02.788: AAA/AUTHOR/LCP: Se0:18 (900316608) send AV protocol=lcp
*Mar 4 19:43:02.788: AAA/AUTHOR/LCP (900316608) found list "default"
*Mar 4 19:43:02.788: AAA/AUTHOR/LCP: Se0:18 (900316608) METHOD=RADIUS
*Mar 4 19:43:02.788: AAA/AUTHOR (900316608): Post authorization status = PASS_REPL
*Mar 4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar 4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar 4 19:43:02.788: Se0:18 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar 4 19:43:02.788: Se0:18 CHAP: O SUCCESS id 2 len 4
*Mar 4 19:43:02.788: AAA/ACCT/NET/START User timeout, Port Serial0:18, List ""
*Mar 4 19:43:02.788: AAA/ACCT/NET: Found list "default"
*Mar 4 19:43:02.788: Se0:18 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar 4 19:43:02.788: AAA/AUTHOR/FSM Se0:18 (3608739008): Port='Serial0:18' list=''
service=NET
*Mar 4 19:43:02.788: AAA/AUTHOR/FSM: Se0:18 (3608739008) send AV service=ppp
*Mar 4 19:43:02.788: AAA/AUTHOR/FSM: Se0:18 (3608739008) send AV protocol=ip
*Mar 4 19:43:02.788: AAA/AUTHOR/FSM (3608739008) found list "default"
*Mar 4 19:43:02.788: AAA/AUTHOR/FSM: Se0:18 (3608739008) METHOD=RADIUS
*Mar 4 19:43:02.788: RADIUS: Using NAS default peer
*Mar 4 19:43:02.788: RADIUS: Authorize IP address 0.0.0.0
*Mar 4 19:43:02.788: AAA/AUTHOR (3608739008): Post authorization status = PASS_REPL
*Mar 4 19:43:02.788: Se0:18 AAA/AUTHOR/FSM: We can start IPCP
*Mar 4 19:43:02.788: Se0:18 AAA/AUTHOR/FSM: (0): Can we start CDPCP?
*Mar 4 19:43:02.792: AAA/AUTHOR/FSM Se0:18 (3955392150): Port='Serial0:18' list=''
service=NET
*Mar 4 19:43:02.792: AAA/AUTHOR/FSM: Se0:18 (3955392150) send AV service=ppp
*Mar 4 19:43:02.792: AAA/AUTHOR/FSM: Se0:18 (3955392150) send AV protocol=cdp
*Mar 4 19:43:02.792: AAA/AUTHOR/FSM (3955392150) found list "default"
*Mar 4 19:43:02.792: AAA/AUTHOR/FSM: Se0:18 (3955392150) METHOD=RADIUS
*Mar 4 19:43:02.792: AAA/AUTHOR (3955392150): Post authorization status = PASS_REPL
*Mar 4 19:43:02.792: Se0:18 AAA/AUTHOR/FSM: We can start CDPCP
*Mar 4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0
*Mar 4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar 4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 4 19:43:02.804: Se0:18 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0
*Mar 4 19:43:02.808: Se0:18 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's
*Mar 4 19:43:02.808: Se0:18 AAA/AUTHOR/FSM: Processing AV service=ppp
*Mar 4 19:43:02.808: Se0:18 AAA/AUTHOR/FSM: Succeeded
*Mar 4 19:43:02.816: Se0:18 AAA/AUTHOR/IPCP: Start. Her address 10.1.1.3, we want 10.1.1.3
*Mar 4 19:43:02.816: AAA/AUTHOR/IPCP Se0:18 (2267743837): Port='Serial0:18' list=''
service=NET
*Mar 4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) send AV service=ppp
*Mar 4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) send AV protocol=ip
*Mar 4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) send AV addr*10.1.1.3
*Mar 4 19:43:02.816: AAA/AUTHOR/IPCP (2267743837) found list "default"
*Mar 4 19:43:02.816: AAA/AUTHOR/IPCP: Se0:18 (2267743837) METHOD=RADIUS
*Mar 4 19:43:02.816: RADIUS: Using NAS default peer
*Mar 4 19:43:02.816: RADIUS: Authorize IP address 10.1.1.3
```

```

*Mar 4 19:43:02.816: AAA/AUTHOR (2267743837): Post authorization status = PASS_REPL
*Mar 4 19:43:02.816: Se0:18 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 4 19:43:02.820: Se0:18 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.3
*Mar 4 19:43:02.820: Se0:18 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 4 19:43:02.820: Se0:18 AAA/AUTHOR/IPCP: Done. Her address 10.1.1.3,
we want 10.1.1.3
*Mar 4 19:43:02.824: Se0:18 AAA/AUTHOR/PER-USER: Event IP_UP
*Mar 4 19:43:02.824: Se0:18 AAA/PER-USER: processing author params.
access-3#show caller

```

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

```
access-3#show caller timeout
```

Line	User	Session Timeout	Idle Timeout	Disconnect User in
Se0:18	timeout	00:01:30	00:01:00	00:00:37

```
access-3#ping 10.1.1.3
```

Type escape sequence to abort.

```

Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
!!!!

```

Success rate is 100 percent (5/5), round-trip min/avg/max = 32/33/36 ms

```
access-3#show caller timeout
```

Line	User	Session Timeout	Idle Timeout	Disconnect User in
Se0:18	timeout	00:01:30	00:01:00	00:00:57

```
access-3#show caller user timeout
```

User: timeout, line Se0:18, service PPP

Active time 00:00:38, Idle time 00:00:10

```

Timeouts:          Absolute Idle
Limits:           00:01:30 00:01:00
Disconnect in:    00:00:51 00:00:49

```

PPP: LCP Open, multilink Closed, CHAP (<- AAA), IPCP, CDPCP

Dialer: Connected to 4085551200, inbound

Idle timer 60 secs, idle 10 secs

Type is ISDN, group Serial0:23

IP: Local 10.1.1.1, remote 10.1.1.3

Access list (I/O) is 199/not set

Counts: 51 packets input, 2104 bytes, 0 no buffer

11 input errors, 2 CRC, 3 frame, 0 overrun

58 packets output, 2233 bytes, 0 underruns

0 output errors, 0 collisions, 45 interface resets

```
access-3#show caller user timeout
```

User: timeout, line Se0:18, service PPP

Active time 00:00:45, Idle time 00:00:17

```

Timeouts:          Absolute Idle
Limits:           00:01:30 00:01:00
Disconnect in:    00:00:44 00:00:42

```

PPP: LCP Open, multilink Closed, CHAP (<- AAA), IPCP, CDPCP

Dialer: Connected to 4085551200, inbound

Idle timer 60 secs, idle 17 secs

Type is ISDN, group Serial0:23

IP: Local 10.1.1.1, remote 10.1.1.3

Access list (I/O) is 199/not set

Counts: 52 packets input, 2120 bytes, 0 no buffer

11 input errors, 2 CRC, 3 frame, 0 overrun

59 packets output, 2249 bytes, 0 underruns

0 output errors, 0 collisions, 45 interface resets

```
access-3#ping 10.1.1.3
```

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:

!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 32/34/40 ms

access-3#**show caller user timeout**

User: timeout, line Se0:18, service PPP

Active time 00:01:02, Idle time 00:00:04

Timeouts: Absolute Idle
Limits: 00:01:30 00:01:00
Disconnect in: 00:00:27 00:00:55

PPP: LCP Open, multilink Closed, CHAP (<- AAA), IPCP, CDPCP

Dialer: Connected to 4085551200, inbound

Idle timer 60 secs, idle 4 secs

Type is ISDN, group Serial0:23

IP: Local 10.1.1.1, remote 10.1.1.3

Access list (I/O) is 199/not set

Counts: 60 packets input, 2688 bytes, 0 no buffer

11 input errors, 2 CRC, 3 frame, 0 overrun

67 packets output, 2817 bytes, 0 underruns

0 output errors, 0 collisions, 45 interface resets

access-3#**show caller timeout**

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

access-3#**show caller timeout**

Line	User	Session Timeout	Idle Timeout	Disconnect User in
Se0:18	timeout	00:01:30	00:01:00	00:00:07

access-3#

*Mar 4 19:44:33.788: ISDN Se0:23: TX -> DISCONNECT pd = 8 callref = 0x800E

*Mar 4 19:44:33.788: Cause i = 0x8090 - Normal call clearing

*Mar 4 19:44:33.840: ISDN Se0:23: RX <- RELEASE pd = 8 callref = 0x0E

*Mar 4 19:44:33.852: Se0:18 AAA/ACCT: ISDN xmit 64000 rcv 64000 hwidb 612048BC

*Mar 4 19:44:33.852: AAA/ACCT/NET/STOP User timeout, Port Serial0:18:

task_id=14 timezone=PST service=ppp protocol=ip addr=10.1.1.3 disc-cause=5

disc-cause-ext=1100 pre-bytes-in=101 pre-bytes-out=102 pre-paks-in=5 pre-paks-out=5

bytes_in=2258 bytes_out=2276 paks_in=38 paks_out=38 pre-session-time=2 elapsed_time=91

nas-rx-speed=64000 nas-tx-speed=64000

*Mar 4 19:44:33.852: ISDN Se0:23: TX -> RELEASE_COMP pd = 8 callref = 0x800E

*Mar 4 19:44:33.856: Se0:18 AAA/AUTHOR/PER-USER: Event IP_DOWN

*Mar 4 19:44:33.856: Se0:18 AAA/AUTHOR/PER-USER: Event LCP_DOWN

*Mar 4 19:44:34.060: TAC+: (3492368360): received acct response status = SUCCESS

[Chiamata ISDN a canale singolo non Multilink con profili virtuali](#)

Di seguito è riportato lo stesso utente ISDN a canale singolo non multilink, ma questa volta con i profili virtuali abilitati. Si noti che l'interfaccia vaccess viene creata anche se il collegamento multiplo *non* viene negoziato e vengono creati i comandi di configurazione per installare i timer.

*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

```

Line	User	Service	Active Time	Idle Time
Se0:18	timeout	PPP	00:00:11	00:00:10
Vi1	timeout	PPP VDP	00:00:11	00:00:10

```

access-3#show caller timeout

```

```

User: timeout, line Se0:18, service PPP
Active time 00:00:15, Idle time 00:00:15
Timeouts: Absolute Idle
Limits: - -
Disconnect in: - -

```

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

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

Timeouts: Absolute Idle
Limits: 00:01:30 00:01:00
Disconnect in: 00:01:13 00:00:44

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

access-3#**show caller timeouts**

Line	User	Session Timeout	Idle Timeout	Disconnect User in
Se0:18	timeout	-	-	-
Vi1	timeout	00:01:30	00:01:00	00:00:40

access-3#**ping 10.1.1.3**

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 32/33/36 ms
access-3#**show caller timeouts**

Line	User	Session Timeout	Idle Timeout	Disconnect User in
Se0:18	timeout	-	-	-
Vi1	timeout	00:01:30	00:01:00	00:00:58

access-3#**show caller user timeout**

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

User: timeout, line Vi1, service PPP VDP
Active time 00:00:34, Idle time 00:00:09

Timeouts: Absolute Idle
Limits: 00:01:30 00:01:00
Disconnect in: 00:00:54 00:00:50

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

access-3#show caller timeout

Line	User	Session Timeout	Idle Timeout	Disconnect User in
Se0:18	timeout	-	-	-
Vi1	timeout	00:01:30	00:01:00	00:00:42

access-3#show caller timeouts

Line	User	Session Timeout	Idle Timeout	Disconnect User in
Se0:18	timeout	-	-	-
Vi1	timeout	00:01:30	00:01:00	00:00:22

access-3#show caller

Line	User	Service	Active Time	Idle Time
Se0:18	timeout	PPP	00:01:22	00:00:57
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 rcv 64000 hwidb 612048BC
*Mar 4 19:46:28.996: AAA/ACCT/NET/STOP User timeout, Port Serial0:18:
  task_id=15 timezone=PST service=ppp protocol=ip addr=10.1.1.3 disc-cause=4
disc-cause-ext=1021 pre-bytes-in=101 pre-bytes-out=102 pre-paks-in=5 pre-paks-out=5
bytes_in=1024 bytes_out=1036 paks_in=21 paks_out=21 pre-session-time=2 elapsed_time=86
nas-rx-speed=64000 nas-tx-speed=64000
*Mar 4 19:46:29.000: ISDN Se0:23: TX -> DISCONNECT pd = 8 callref = 0x800C
*Mar 4 19:46:29.000: Cause i = 0x8090 - Normal call clearing
*Mar 4 19:46:29.000: 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 encaps ppp
default ip address
end
```

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

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