

# Time-out bij PPP per gebruiker

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## [Inleiding](#)

Deze technische tip legt uit hoe u per-gebruiker time-outs op Cisco-toegangsservers kunt implementeren. Om te kunnen werken binnen een bepaalde tijd moet u Cisco IOS versie 11.3(8)T of hoger uitvoeren. Als u een eerdere versie van Cisco IOS uitvoert, kunnen de timers alleen in bepaalde basisconfiguraties werken, zoals asynchrone alleen zonder virtuele profielen.

Dit document betreft de configuratie van de NAS (Network Access Server) en de verificatie, autorisatie en accounting (AAA) server. Deze **opdracht** is ook beschikbaar voor **tonen** en **debug** van de opdrachtoutput, zodat u kunt bevestigen of uw apparaten goed werken en dus kunt u problemen oplossen.

## [Voorwaarden](#)

## [Vereisten](#)

Er zijn geen specifieke vereisten van toepassing op dit document.

## Gebruikte componenten

De informatie in dit document is gebaseerd op de volgende software- en hardware-versies:

- Cisco IOS-versie 11.3(8)T of hoger

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk live is, moet u de potentiële impact van elke opdracht begrijpen.

## Conventies

Raadpleeg voor meer informatie over documentconventies de [technische Tips](#) van [Cisco](#).

## Technische details

Voordat we het hebben over tijdelijke versies per gebruiker, die andere variabelen zoals AAA-configuratie en RADIUS/TACACS+-servers meebrengen, zullen we onderzoeken hoe we een toegangsserver voor tijdelijke tijdelijke tijdelijke versies kunnen configureren, dat wil zeggen tijdelijke versies die op mondiale basis worden toegepast en van toepassing zijn op iedereen die inbellen.

De belangrijkste opdrachten van Cisco IOS zijn **absolute** opdrachten voor **inactiviteitstimer** en **tijdelijke uitvoer**. Dit zijn allebei de opdrachten van de interfaceconfiguratie. We bespreken ook een derde opdracht, **ppp timeout idle**, die gebruikt wordt op toegangsinterfaces.

### **dialer oningesteld <x>**

Deze opdracht kan worden ingesteld op een willekeurige dialer-capabele interface en bepaalt hoe lang de verbinding stilgezet kan worden (in seconden) voordat deze wordt beëindigd. Hieronder staan vier punten waarvan u nota moet nemen over deze opdracht:

1. Deze opdracht kan alleen worden toegepast op interfaces die dialer-mogelijk zijn. Standaard zijn alle ISDN-interfaces (BRI en PRI) inelbaar, zodat het toevoegen van deze opdracht geen probleem is. Async-interfaces (inclusief groep-async interfaces) zijn standaard niet dialer-geschikt, u moet dit doen door het commando **dialer in-band** in te voeren. Alleen nadat u de opdracht **dialer in-band** op de asynchrone interface hebt ingevoerd, kunt u **dialer idle-timeout** configureren. **Opmerking**: De sjabloon (en daarom toegangsinterfaces) zijn niet dialer-mogelijk (ze zijn alleen point-to-point) en kunnen deze opdracht dus niet gebruiken.
2. Op een dialer-enabled interface (dat wil zeggen ISDN of asynchrone met dialer in-band) is de standaard **dialer idle-timeout 120** (seconden). Dit is meestal te kort in een ISP-omgeving, dus u moet dit vrijwel altijd verhogen.
3. De **inactiviteitstimer van het dialer** wordt standaard alleen gereset op uitgaande verkeer (verkeer naar de gebruiker) dat overeenkomt met de lijst van dialers (dat wil zeggen, het wordt gezien als interessant). Het is mogelijk om het voor inkomende interessante verkeer ook te herstellen door het of sleutelwoord aan het eind van de opdracht toe te voegen (dat wil zeggen, **inactiviteitstimer 600 of**).
4. Verkeer dat wordt beschouwd als "interessant" wordt gedefinieerd door de **opdracht dialer-**

lijst <n>, waarbij <n>het nummer overeenkomt met uw **dialogvensterverklaring**.  
**absolute tijden <x> <y>**

Deze opdracht kan op elke WAN-interface worden ingesteld, inclusief asynchrone interfaces, ISDN-interfaces, dialerinterfaces en sjablooninterfaces. Het controleert hoe lang de verbinding kan zijn omhoog voordat het wordt beëindigd. Merk op dat de syntaxis <x> <y> *is* waarbij <x>in minuten is en <y> in seconden.

### PPP timeout idle <x>

Deze opdracht kan alleen worden ingesteld op Vsjabloon interfaces (en is zelfs verborgen in de parser) en bepaalt hoe lang de verbinding stilgezet kan worden (in seconden) voordat deze wordt beëindigd. Zijn functie is zeer gelijkend op die van de **dialer idle-timeout** opdracht op dialer interfaces, slechts **ppp timeout idle** is voor Vsjabloon/toegangsinterfaces. Omdat het specifiek op Vsjabloon/toegangsinterfaces wordt gebruikt, is deze opdracht geschikt voor virtueel-profiel configuraties (waar een toegangsinterface altijd voor een gebruiker wordt gemaakt), en virtuele privé inbel-netwerk (VPDN) startgateways (waar de geprojecteerde interfaces altijd op een toegangsinterface worden beëindigd). In tegenstelling tot de opdracht **dialer idle-timeout** is er geen concept van interessant verkeer en dus zal al het gebruikersverkeer de stationaire timer resetten. Niet-gebruikersverkeer zoals LCP-overzichten (Link Control Protocol) en NCP-onderhandelingspakketten (Network Control Protocol) stellen de timer niet opnieuw in.

## Configureren

Deze sectie bevat informatie over het configureren van de functies die in dit document worden beschreven.

**N.B.:** Als u aanvullende informatie wilt vinden over de opdrachten in dit document, gebruikt u het [Opdrachtplanningprogramma](#) (alleen [geregistreerd](#) klanten).

Dit document gebruikt deze configuraties:

- [Basisconfiguratie \(virtuele profielen niet ingeschakeld\)](#)
- [Mondiale time-outs](#)
- [Time-out per gebruiker - AAA-serverconfiguratie](#)
- [Time-out per gebruiker - NAS-configuratie](#)

### Basisconfiguratie (virtuele profielen niet ingeschakeld)

Voor leerdoeleinden gaan we uit van een basisconfiguratie zoals deze hieronder. De functie virtuele profielen is niet ingeschakeld.

basisconfiguratie
<pre>! version 11.3 service timestamps debug datetime msec service timestamps log datetime msec service password-encryption ! hostname access-3 !</pre>

```

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$0MKx$kPcop1zxkpxa8fkxXBWp2l
!
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-Templatel 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-Asyncl
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
```

## Mondiale time-outs

Voor het volgende voorbeeld, zullen we een 30 minuten (1800 seconden) ongebruikte tijd en drie uur (180 minuten) absolute tijd voor gebruikers opleggen. De verandering in de delta configuratie die **mondiale PPP timeouts** mogelijk zal maken zal als volgt zijn:

```
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
```

Als u geen dialer-list 1 hebt, zult u moeten definiëren. De eenvoudigste zou een **dialer-list-1 protocol ip-vergunning** zijn.

Als u virtuele profielen gebruikt, kan de configuratie van uw computer eenvoudiger zijn, omdat u de tijd eenvoudigweg op de **virtuele sjablooninterface** kunt **zetten**, zoals hieronder wordt getoond:

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

## Time-out per gebruiker - AAA-serverconfiguratie

Nu we hebben gewerkt aan mondiale tijdelijke instellingen, zullen we deze kennis uitbreiden naar tijdelijke gebruikers. Uw timer-waarden voor per-gebruiker worden lager tijdens de netwerkautorisatie, dus u moet de opdracht **van het** AAA-netwerk hebben geconfigureerd voor elke methode die u gebruikt, namelijk RADIUS of TACACS+. Houd er ook rekening mee dat timers per gebruiker altijd alle mondiale waarden zullen omzeilen die vooraf zijn ingesteld op de NAS. De manier waarop de timers per-gebruiker werken is dat wanneer de toegangsserver de tijdeigenschappen tijdens de fase van de netwerkautorisatie ontvangt, deze eigenschappen vertaald worden in een set configuratieopdrachten die ingevoerd zullen worden in de interface waaraan de gebruiker zal worden verbonden. Deze configuratieopdrachten die door een achtergrondproces in de interface worden ingevoerd, zijn tijdelijk; ze worden verwijderd wanneer de gebruiker de verbinding verbreekt.

Hieronder staan verschillende profielen van voorbeeldgebruikers op de server:

### **RADIUS-profielen**

```
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
```

**N.B.:** Uw syntaxis kan afhankelijk van de manier waarop uw woordenboek is ingesteld, verschillen.

## profielen 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"  
    }  
}
```

## [Time-out per gebruiker - NAS-configuratie](#)

Als u slechts async (geen ISDN) doet en geen virtuele profielen gebruikt, zolang u **dialer in-band** ingesteld hebt op de async (of groep-async) interfaces, zouden de per-gebruiker timers moeten werken. Het achtergrondproces zal de timers op de asynchrone interface invoegen, gebruik makend van de **dialer idle-timeout** en de **timeout absolute** opdrachten met de waarden die zijn doorgegeven via RADIUS/TACACS+, en deze uitschakelen wanneer de gebruiker de verbinding verbreekt.

Als u slechts async (geen ISDN) doet en virtuele profielen gebruikt, hebt u geen **dialer in-band** nodig die op de async (of groep-async) interface is geconfigureerd. Het zou gewoon moeten werken. Het achtergrondproces zal de timers op de toegangssinterface invoegen, gebruik makend van de **PPP timeout idle** en **timeout absolute** opdrachten met de waarden die zijn doorgegeven via RADIUS/TACACS+, en deze eruit halen wanneer de gebruiker de verbinding verbreekt.

Als u ISDN-gebruikers hebt en u per-gebruiker timers moet doen, moet u mogelijk virtuele profielen gebruiken. De reden is dat het achtergrondproces dat we eerder besproken hebben, niet werkt voor ISDN-interfaces; U kunt dus niet het B-kanaal configureren waarmee de gebruiker is verbonden. Het enige dat je kunt configureren is het D-kanaal dat iedereen beïnvloedt. Als een gebruiker echter op een sessie over multilink onderhandelt, zal de toegangsserver automatisch een virtuele toegangsinterface maken die als de bundelinterface voor de gebruiker fungeert. Het achtergrondproces werkt wel op virtuele toegangsinterfaces, maar het werkt niet op een verbinding met een niet-multilink ISDN waar geen interface voor virtuele toegang is. Dus als je één B-kanaalgebruikers hebt die niet onderhandelen over multilink en je wilt een time-out per gebruiker voor deze gebruikers installeren, dan moet je virtuele profielen inschakelen. Het inschakelen van virtuele profielen dwingt tot het maken van een toegangsinterface voor alle gebruikers (niet alleen de multilink-gebruikers) en het achtergrondproces kan met succes de **PPP timeout-** en de **timeout absolute** opdrachten invoegen. Als u ervoor kiest om geen virtuele profielen in te schakelen, kunnen asynchrone gebruikers en ISDN-gebruikers meerdere snelheden laten toepassen op de profielen per gebruiker. Maar niet-multilink ISDN-gebruikers kunnen geen tijden per gebruiker op deze gebruikers toepassen. Alleen de mondiale tijdelijke instellingen die statistisch op de interface zijn geconfigureerd (indien aanwezig), zullen van toepassing zijn. Als u probeert om tijdelijke instellingen per gebruiker toe te passen op een niet-multilink ISDN-gebruiker en geen virtuele profielen hebt ingeschakeld, dan wordt de gebruikersverbinding verbroken omdat de toegangsserver niet in staat was de verplichte timeout-eigenschappen per gebruiker te verwerken.

Daarnaast is een optie toegevoegd aan Cisco IOS 11.3(8.1)T en latere versies waarin tijdelijke instellingen per gebruiker kunnen worden toegepast op niet-multilink ISDN-gebruikers. Het passeert in wezen de configuratie van het achtergrondproces dat gewoonlijk wordt gebruikt en stelt de timers rechtstreeks op het B-kanaal in zonder de interface van de opdrachtregel te gebruiken.

Om deze complexe instelling samen te vatten, hebt u twee regels die u kunt volgen:

- Als u geen virtuele profielen gebruikt, moet u **dialer in-band** configureren op de asynchrone interfaces en Cisco IOS 11.3(8.1)T of hoger uitvoeren. Als u Cisco IOS 11.3(8)T draait, let op dat de gebruikers van niet-multilink ISDN geen time-outs van per gebruiker op hen kunnen hebben toegepast, anders zullen ze er niet in slagen verbinding te maken.
- Als u virtuele profielen gebruikt, zal Cisco IOS 11.3(8)T of hoger goed werken.

## Verifiëren

Er is momenteel geen verificatieprocedure beschikbaar voor deze configuratie.

## Problemen oplossen

Deze sectie bevat informatie waarmee u problemen met de configuratie kunt oplossen. Met het oog op het fouilleren worden zes voorbeelden van de aanloopuitvoer opgenomen. Als u rechtstreeks naar een bepaalde sectie wilt springen, selecteert u een van de onderstaande koppelingen:

Bepaalde opdrachten met **show** worden ondersteund door de tool [Output Interpreter \(alleen voor geregistreerde klanten\)](#). Hiermee kunt u een analyse van de output van opdrachten met **show** genereren.

**Opmerking:** Voordat u **debug**-opdrachten afgeeft, raadpleegt u [Belangrijke informatie over Debug Commands](#).

- [Asynchrone oproep met virtuele profielen - verbinding is niet onvolledig](#)
- [Asynchrone verbinding met virtuele profielen - Vergrendeling](#)
- [Async-oproep zonder virtuele profielen](#)
- [Multilink-kanaal ISDN-oproep zonder virtuele profielen](#)
- [Niet-multilink-ISDN oproep met één kanaal zonder virtuele profielen](#)
- [Niet-multilink-ISDN oproep met één kanaal met virtuele profielen](#)

**OPMERKING:** Om de zelfde opdrachten en uitvoer te zien die hieronder worden weergegeven, moet u Cisco IOS versie 11.3AA of versie 12.0T uitvoeren.

## [Asynchrone oproep met virtuele profielen - verbinding is niet onvolledig](#)

Hieronder is een asynchrone aanroep met virtuele profielen. Het profiel installeert een 90 tweede absolute tijd en een 60 tweede ongebruikte tijd. In dit voorbeeld laten we de verbinding niet los. Zie de opmerkingen in de onderstaande output voor meer informatie. Opmerkingen worden gemarkeerd en gecursiveerd.

```
!--- 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: Vil VTEMPLATE: Set default  
settings with no ip address, encap ppp \*Mar 4 19:22:16.440: Vil VTEMPLATE: Hardware address  
00e0.1e81.636c \*Mar 4 19:22:16.440: Vil VTEMPLATE: Has a new cloneblk vtemplate, now it has  
vtemplate \*Mar 4 19:22:16.440: Vil VTEMPLATE: \*\*\*\*\* CLONE VACCESS1 \*\*\*\*\*  
\*Mar 4 19:22:16.440: Vil VTEMPLATE: Clone from Virtual-Templatel interface Virtual-Access1  
default ip address no ip address encap ppp ip unnumbered Loopback0 ip access-group 199 in ip  
helper-address 172.16.24.118 no ip directed-broadcast ip accounting output-packets ip nat inside  
no keepalive peer default ip address pool default compress mppc ppp callback accept ppp  
authentication chap pap ms-chap ppp multilink multilink max-links 2 end \*Mar 4 19:22:16.504: Vil  
CCP: Re-Syncing history using legacy method *!--- Now add the per-user timeouts we constructed  
for this user.* \*Mar 4 19:22:16.520: Vil VTEMPLATE: Has a new cloneblk AAA, now it has  
vtemplate/AAA \*Mar 4 19:22:16.520: Vil VTEMPLATE: \*\*\*\*\* CLONE VACCESS1 \*\*\*\*\*  
**\*Mar 4 19:22:16.520: Vil 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: Vil PPP: Treating connection  
as a dedicated line \*Mar 4 19:22:16.536: Vil AAA/AUTHOR/FSM: (0): LCP succeeds trivially \*Mar 4  
19:22:16.536: Vil AAA/AUTHOR/FSM: (0): Can we start IPCP? \*Mar 4 19:22:16.536: AAA/AUTHOR/FSM  
Vil (1906691625): Port='Async53' list='' service=NET \*Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vil  
(1906691625) send AV service=ppp \*Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vil (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: Vil (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: Vil  
AAA/AUTHOR/FSM: We can start IPCP \*Mar 4 19:22:16.536: Vil AAA/AUTHOR/FSM: (0): Can we start  
CCP? \*Mar 4 19:22:16.536: AAA/AUTHOR/FSM Vil (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
<b>Vi1</b>	<b>timeout</b>	<b>PPP VDP</b>	<b>00:00:38</b>	<b>00:00:36</b>

*!--- 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	-	-	-
<b>Vi1</b>	<b>timeout</b>	<b>00:01:30</b>	<b>00:01:00</b>	<b>00:00:58</b>

*!--- 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	-	-	-
<b>Vil</b>	<b>timeout</b>	<b>00:01:30</b>	<b>00:01:00</b>	<b>00:00:24</b>

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 Vil, 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: Vil 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: Vil AAA/AUTHOR/PER-USER: Event IP_DOWN
*Mar  4 19:23:47.540: Vil 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: Vil VTEMPLATE: Found a
dirty vaccess clone with vtemplate/AAA *Mar 4 19:23:48.140: Vil VTEMPLATE: ***** UNCLONE
VACCESS1 ***** *Mar 4 19:23:48.140: Vil 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: Vil VTEMPLATE: Set default settings
with no ip address *Mar 4 19:23:48.176: Vil VTEMPLATE: Remove cloneblk AAA with vtemplate/AAA
*Mar 4 19:23:48.180: Vil VTEMPLATE: ***** UNCLONE VACCESS1 ***** *Mar 4
19:23:48.180: Vil VTEMPLATE: Unclone to-be-freed command#15 interface Virtual-Access1 default
multilink max-links 2 default ppp multilink default ppp authentication chap pap ms-chap default
ppp callback accept default compress mppc default peer default ip address pool default default
keepalive default ip nat inside default ip accounting output-packets default ip directed-
broadcast default ip helper-address 172.16.24.118 default ip access-group 199 in default ip
unnumbered Loopback0 default encaps ppp default ip address end *Mar 4 19:23:48.264: Vil
VTEMPLATE: Set default settings with no ip address *Mar 4 19:23:48.284: Vil VTEMPLATE: Remove
cloneblk vtemplate with vtemplate/AAA *Mar 4 19:23:48.284: Vil 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

```

## Asynchrone verbinding met virtuele profielen - Vergrendeling

Hieronder is een asynchrone aanroep met virtuele profielen. Het heeft dezelfde gebruikersnaam als het bovenstaande voorbeeld. Het profiel installeert een 90 tweede absolute tijd en een 60 tweede ongebruikte tijd. In dit voorbeeld laten we de verbinding los. Hieronder staan geen opmerkingen, maar belangrijke resultaten zijn gemarkeerd.

```

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

```

```
*Mar 4 19:24:38.772: VDEV_ALLOCATE: slot 1 and port 29 is allocated.
*Mar 4 19:24:38.772: EVENT_FROM_ISDN:(003E): DEV_INCALL at slot 1 and port 29
*Mar 4 19:24:38.772: CSM_PROC_IDLE: CSM_EVENT_ISDN_CALL at slot 1, port 29
*Mar 4 19:24:38.772: Mica Modem(1/29): Configure(0x1 = 0x0)
*Mar 4 19:24:38.772: Mica Modem(1/29): Configure(0x23 = 0x0)
*Mar 4 19:24:38.772: Mica Modem(1/29): Call Setup
*Mar 4 19:24:38.908: Mica Modem(1/29): State Transition to Call Setup
*Mar 4 19:24:38.908: Mica Modem(1/29): Went offhook
*Mar 4 19:24:38.908: CSM_PROC_IC1_RING: CSM_EVENT_MODEM_OFFHOOK at slot 1, port 29
*Mar 4 19:24:38.912: ISDN Se0:23: TX -> CONNECT pd = 8 callref = 0x800A
*Mar 4 19:24:38.972: ISDN Se0:23: RX <- CONNECT_ACK pd = 8 callref = 0x0A
*Mar 4 19:24:38.976: EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x3E, ces=0x1
    bchan=0x12, event=0x4, cause=0x0
*Mar 4 19:24:38.976: EVENT_FROM_ISDN:(003E): DEV_CONNECTED at slot 1 and port 29
*Mar 4 19:24:38.976: CSM_PROC_IC4_WAIT_FOR_CARRIER: CSM_EVENT_ISDN_CONNECTED at
slot 1, port 29
*Mar 4 19:24:38.976: Mica Modem(1/29): Link Initiate
*Mar 4 19:24:40.060: Mica Modem(1/29): State Transition to Connect
*Mar 4 19:24:45.256: Mica Modem(1/29): State Transition to Link
*Mar 4 19:24:56.796: Mica Modem(1/29): State Transition to Trainup
*Mar 4 19:24:59.996: Mica Modem(1/29): State Transition to EC Negotiating
*Mar 4 19:25:00.532: Mica Modem(1/29): State Transition to Steady State
*Mar 4 19:25:01.340: AAA: parse NAME=tty54 idb TYPE=10 tty=54
*Mar 4 19:25:01.340: AAA: NAME=tty54 flags=0x11 TYPE=4 shelf=0 slot=0
adapter=0 port=54 channel=0
*Mar 4 19:25:01.340: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar 4 19:25:01.340: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar 4 19:25:02.544: As54 LCP: Lower layer not up, Fast Starting
*Mar 4 19:25:02.544: As54 PPP: Treating connection as a dedicated line
*Mar 4 19:25:02.544: As54 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar 4 19:25:04.744: As54 PPP: Phase is AUTHENTICATING, by this end
*Mar 4 19:25:04.744: As54 CHAP: O CHALLENGE id 1 len 26 from "STACK"
*Mar 4 19:25:06.628: As54 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar 4 19:25:06.820: As54 PPP: Phase is AUTHENTICATING, by this end
*Mar 4 19:25:06.820: As54 CHAP: O CHALLENGE id 2 len 26 from "STACK"
*Mar 4 19:25:06.916: As54 CHAP: I RESPONSE id 2 len 30 from "timeout"
*Mar 4 19:25:06.916: AAA: parse NAME=Async54 idb TYPE=10 tty=54
*Mar 4 19:25:06.916: AAA: NAME=Async54 flags=0x11 TYPE=4 shelf=0 slot=0
adapter=0 port=54 channel=0
*Mar 4 19:25:06.916: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar 4 19:25:06.916: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar 4 19:25:06.916: RADIUS: ustruct sharecount=1
*Mar 4 19:25:06.916: RADIUS: Initial Transmit Async54 id 1 172.16.24.117:1645,
Access-Request, len 92
*Mar 4 19:25:06.916:      Attribute 4 6 AC101874
*Mar 4 19:25:06.916:      Attribute 5 6 00000036
*Mar 4 19:25:06.916:      Attribute 61 6 00000000
*Mar 4 19:25:06.916:      Attribute 1 11 74696D65
*Mar 4 19:25:06.916:      Attribute 30 12 34303835
*Mar 4 19:25:06.916:      Attribute 3 19 024525C7
*Mar 4 19:25:06.916:      Attribute 6 6 00000002
*Mar 4 19:25:06.916:      Attribute 7 6 00000001
*Mar 4 19:25:06.924: RADIUS: Received from id 1 172.16.24.117:1645,
Access-Accept, len 50
*Mar 4 19:25:06.924:      Attribute 6 6 00000002
*Mar 4 19:25:06.924:      Attribute 7 6 00000001
*Mar 4 19:25:06.924:      Attribute 8 6 FFFFFFFF
*Mar 4 19:25:06.924:      Attribute 27 6 0000005A
```

```

*Mar 4 19:25:06.928:          Attribute 28 6 0000003C
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Authorize LCP
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP As54 (2013841092): Port='Async54' list='' service=NET
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) send AV service=ppp
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) send AV protocol=lcp
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP (2013841092) found list "default"
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) METHOD=RADIUS
*Mar 4 19:25:06.928: AAA/AUTHOR (2013841092): Post authorization status = PASS_REPL
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP As54: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60

*Mar 4 19:25:06.928: As54 CHAP: 0 SUCCESS id 2 len 4
*Mar 4 19:25:06.928: AAA/ACCT/NET/START User timeout, Port Async54, List ""
*Mar 4 19:25:06.928: AAA/ACCT/NET: Found list "default"
*Mar 4 19:25:07.028: Vll VTEMPLATE: Reuse Vll, recycle queue size 0
*Mar 4 19:25:07.028: Vll VTEMPLATE: Hardware address 00e0.1e81.636c
*Mar 4 19:25:07.028: Vll VTEMPLATE: Has a new cloneblk vtemplate, now it has vtemplate
*Mar 4 19:25:07.028: Vll VTEMPLATE: ***** CLONE VACCESS1 *****
*Mar 4 19:25:07.028: Vll VTEMPLATE: Clone from Virtual-Templatel

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: Vll CCP: Re-Syncing history using legacy method
*Mar 4 19:25:07.108: Vll VTEMPLATE: Has a new cloneblk AAA, now it has vtemplate/AAA
*Mar 4 19:25:07.108: Vll VTEMPLATE: ***** CLONE VACCESS1 *****
*Mar 4 19:25:07.108: Vll 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: Vll PPP: Treating connection as a dedicated line
*Mar 4 19:25:07.124: Vll AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar 4 19:25:07.124: Vll AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar 4 19:25:07.124: AAA/AUTHOR/FSM Vll (3979277251): Port='Async54' list='' service=NET
*Mar 4 19:25:07.124: AAA/AUTHOR/FSM: Vll (3979277251) send AV service=ppp
*Mar 4 19:25:07.124: AAA/AUTHOR/FSM: Vll (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: Vll (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: Vll 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
<b>Vi1</b>	<b>timeout</b>	<b>PPP VDP</b>	<b>00:00:10</b>	<b>00:00:08</b>

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
<b>Vi1</b>	<b>timeout</b>	<b>PPP VDP</b>	<b>00:00:20</b>	<b>00:00:18</b>

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	-	-	-
<b>Vi1</b>	<b>timeout</b>	<b>00:01:30</b>	<b>00:01:00</b>	<b>00:00:05</b>

```

*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: Vil VTEMPLATE: Found a dirty vaccess clone with vtemplate/AAA

\*Mar 4 19:26:11.180: Vil VTEMPLATE: \*\*\*\*\* UNCLONE VACCESS1 \*\*\*\*\*

\*Mar 4 19:26:11.180: Vil VTEMPLATE: Unclone to-be-freed command#2

**interface Virtual-Access1**

**default ppp timeout idle 60**

**default timeout absolute 1 30**

**end**

\*Mar 4 19:26:11.200: Vil VTEMPLATE: Set default settings with no ip address

\*Mar 4 19:26:11.216: Vil VTEMPLATE: Remove cloneblk AAA with vtemplate/AAA

\*Mar 4 19:26:11.216: Vil VTEMPLATE: \*\*\*\*\* UNCLONE VACCESS1 \*\*\*\*\*

\*Mar 4 19:26:11.216: Vil VTEMPLATE: Unclone to-be-freed command#15

interface Virtual-Access1

default multilink max-links 2

default ppp multilink

default ppp authentication chap pap ms-chap

default ppp callback accept

default compress mppc

default peer default ip address pool default

default keepalive

default ip nat inside

default ip accounting output-packets

default ip directed-broadcast

default ip helper-address 172.16.24.118

default ip access-group 199 in

default ip unnumbered Loopback0

default encaps ppp

default ip address

end

\*Mar 4 19:26:11.304: Vil VTEMPLATE: Set default settings with no ip address

\*Mar 4 19:26:11.324: Vil VTEMPLATE: Remove cloneblk vtemplate with vtemplate/AAA

\*Mar 4 19:26:11.324: Vil 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

## [Async-oproep zonder virtuele profielen](#)

Hieronder is een asynchrone aanroep zonder virtuele profielen ingeschakeld. Merk op dat de opdracht **dialer idle-timeout** wordt gebruikt in plaats van de opdracht **PPP timeout** inactief omdat we geen virtuele profielen gebruiken en er geen interface is. U ziet ons ook de **tijdelijke** opdracht

per gebruiker maken en tegelijkertijd geen versie van de opdrachten. De opdrachten op de timer per gebruiker worden onmiddellijk geïnstalleerd, terwijl de versie van de opdrachten niet wordt gevraagd naar de interface die moet worden verwerkt wanneer de gebruiker de aansluiting opzegt.

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

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

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

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

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

*Mar 4 19:30:28.604: CSM_PROC_IC4_WAIT_FOR_CARRIER: CSM_EVENT_ISDN_CONNECTED
at slot 1, port 2
*Mar 4 19:30:28.604: Mica Modem(1/2): Link Initiate
*Mar 4 19:30:29.692: Mica Modem(1/2): State Transition to Connect
*Mar 4 19:30:34.888: Mica Modem(1/2): State Transition to Link
*Mar 4 19:30:46.408: Mica Modem(1/2): State Transition to Trainup
*Mar 4 19:30:49.612: Mica Modem(1/2): State Transition to EC Negotiating
*Mar 4 19:30:50.156: Mica Modem(1/2): State Transition to Steady State
*Mar 4 19:30:50.592: AAA: parse NAME=tty27 idb TYPE=10 tty=27
*Mar 4 19:30:50.592: AAA: NAME=tty27 flags=0x11 TYPE=4 shelf=0 slot=0
adapter=0 port=27 channel=0
*Mar 4 19:30:50.592: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar 4 19:30:50.592: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar 4 19:30:51.792: As27 LCP: Lower layer not up, Fast Starting
*Mar 4 19:30:51.792: As27 PPP: Treating connection as a callin
*Mar 4 19:30:51.792: As27 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar 4 19:30:57.468: As27 PPP: Phase is AUTHENTICATING, by this end
*Mar 4 19:30:57.468: As27 CHAP: O CHALLENGE id 1 len 26 from "STACK"
*Mar 4 19:30:57.564: As27 CHAP: I RESPONSE id 1 len 30 from "timeout"
*Mar 4 19:30:57.564: AAA: parse NAME=Async27 idb TYPE=10 tty=27
*Mar 4 19:30:57.564: AAA: NAME=Async27 flags=0x11 TYPE=4 shelf=0 slot=0
adapter=0 port=27 channel=0
*Mar 4 19:30:57.564: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar 4 19:30:57.564: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar 4 19:30:57.564: RADIUS: ustruct sharecount=1
*Mar 4 19:30:57.564: RADIUS: Initial Transmit Async27 id 3 172.16.24.117:1645,
```

Access-Request, len 92

\*Mar 4 19:30:57.564: Attribute 4 6 AC101874  
\*Mar 4 19:30:57.564: Attribute 5 6 0000001B  
\*Mar 4 19:30:57.564: Attribute 61 6 00000000  
\*Mar 4 19:30:57.564: Attribute 1 11 74696D65  
\*Mar 4 19:30:57.564: Attribute 30 12 34303835  
\*Mar 4 19:30:57.564: Attribute 3 19 01E5C3F6  
\*Mar 4 19:30:57.564: Attribute 6 6 00000002  
\*Mar 4 19:30:57.564: Attribute 7 6 00000001  
\*Mar 4 19:30:57.572: RADIUS: Received from id 3 172.16.24.117:1645,

Access-Accept, len 50

\*Mar 4 19:30:57.572: Attribute 6 6 00000002  
\*Mar 4 19:30:57.572: Attribute 7 6 00000001  
\*Mar 4 19:30:57.572: Attribute 8 6 FFFFFFFF  
**\*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 recv 28800 hwidb 611CEBC0 ttyum 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

```

## [Multilink-kanaal ISDN-oproep zonder virtuele profielen](#)

Hieronder staat een ISDN-verbinding zonder virtuele profielen. Omdat een multilink aanroep een interface maakt, kunnen de timers gemakkelijk geïnstalleerd worden.

```

*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
<b>Vi1</b>	<b>timeout</b>	<b>PPP Bundle</b>	<b>00:00:19</b>	<b>00:00:20</b>

access-3#show caller user timeout

```

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

```

```

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

```

access-3#show caller timeout



```

          Session  Idle      Disconnect
Line      User      Timeout  Timeout  User in
Se0:18    timeout -         -         -
Vi1      timeout  00:01:30 00:01:00 00:00:30
access-3#
*Mar 4 19:42:14.996: Vi1 PPP: Idle timeout, dropping connection
*Mar 4 19:42:14.996: Vi1 VTEMPLATE: Free vaccess
*Mar 4 19:42:14.996: Se0:18 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar 4 19:42:15.000: Vi1 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar 4 19:42:15.004: Se0:18 AAA/ACCT: ISDN xmit 64000 recv 64000 hwidb 612048BC
*Mar 4 19:42:15.004: AAA/ACCT/NET/STOP User timeout, Port Serial0:18:
      task_id=13 timezone=PST service=ppp mlp-links-max=1 mlp-links-current=1
mlp-sess-id=0 disc-cause=18 disc-cause-ext=1046 pre-bytes-in=125 pre-bytes-out=99
pre-paks-in=4 pre-paks-out=4 bytes_in=228 bytes_out=436 paks_in=15 paks_out=26
pre-session-time=3 elapsed_time=60 nas-rx-speed=64000 nas-tx-speed=64000
*Mar 4 19:42:15.008: ISDN Se0:23: TX -> DISCONNECT pd = 8 callref = 0x8008
*Mar 4 19:42:15.008:      Cause i = 0x8090 - Normal call clearing
*Mar 4 19:42:15.060: ISDN Se0:23: RX <- RELEASE pd = 8 callref = 0x08
*Mar 4 19:42:15.072: ISDN Se0:23: TX -> RELEASE_COMP pd = 8 callref = 0x8008
*Mar 4 19:42:15.212: TAC+: (2571416724): received acct response status = SUCCESS
*Mar 4 19:42:15.500: VTEMPLATE: Clean up dirty vaccess queue, size 1
*Mar 4 19:42:15.500: Vi1 VTEMPLATE: Found a dirty vaccess clone with dialer/AAA
*Mar 4 19:42:15.500: Vi1 VTEMPLATE: ***** UNCLONE VACCESS1 *****
*Mar 4 19:42:15.500: Vi1 VTEMPLATE: Unclone to-be-freed command#2
interface Virtual-Access1
default ppp timeout idle 60
default timeout absolute 1 30
end
*Mar 4 19:42:15.516: Vi1 VTEMPLATE: Set default settings with no ip address
*Mar 4 19:42:15.536: Vi1 VTEMPLATE: Remove cloneblk AAA with dialer/AAA
*Mar 4 19:42:15.536: Vi1 VTEMPLATE: Remove cloneblk dialer with dialer/AAA
*Mar 4 19:42:15.536: Vi1 VTEMPLATE: Add vaccess to recycle queue, queue SIZE=1

```

## [Niet-multilink-ISDN oproep met één kanaal zonder virtuele profielen](#)

Hieronder staat een niet-multilink met één kanaal ISDN-oproep zonder virtuele profielen die zijn ingeschakeld. In dit voorbeeld, lopen wij Cisco IOS 11.3(8.2)AA zodat deze timers correct geïnstalleerd kunnen worden. Merk echter op dat er geen configuratieopdrachten zijn aangemaakt om dit te veroorzaken; de timers werden intern in de code vastgesteld .

```

*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
```

## [Niet-multilink-ISDN oproep met één kanaal met virtuele profielen](#)

Dit is dezelfde niet-multilink-gebruiker met één kanaal ISDN, maar dit keer met virtuele profielen ingeschakeld. Merk op dat de toegangsinterface wordt gecreëerd ook al is er *geen* multilink overeengekomen en we maken de configuratieopdrachten om de timers te installeren.

```
*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 FFFFFFFF
*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-Templatel

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	-	-	-
<b>Vi1</b>	<b>timeout</b>	<b>00:01:30</b>	<b>00:01:00</b>	<b>00:00:40</b>

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	-	-	-
<b>Vi1</b>	<b>timeout</b>	<b>00:01:30</b>	<b>00:01:00</b>	<b>00:00:58</b>

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	-	-	-
<b>Vi1</b>	<b>timeout</b>	<b>00:01:30</b>	<b>00:01:00</b>	<b>00:00:42</b>

access-3#show caller timeouts

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

access-3#show caller

Line	User	Service	Active Time	Idle Time
Se0:18	timeout	PPP	00:01:22	00:00:57
<b>Vi1</b>	<b>timeout</b>	<b>PPP VDP</b>	<b>00:01:22</b>	<b>00:00:57</b>

access-3#

\*Mar 4 19:46:28.996: Vi1 PPP: Idle timeout, dropping connection

\*Mar 4 19:46:28.996: Se0:18 AAA/ACCT: ISDN xmit 64000 recv 64000 hwidb 612048BC

\*Mar 4 19:46:28.996: AAA/ACCT/NET/STOP User timeout, Port Serial0:18:

task\_id=15 timezone=PST service=ppp protocol=ip addr=10.1.1.3 disc-cause=4

disc-cause-ext=1021 pre-bytes-in=101 pre-bytes-out=102 pre-paks-in=5 pre-paks-out=5 bytes\_in=1024 bytes\_out=1036 paks\_in=21 paks\_out=21 pre-session-time=2 elapsed\_time=86 nas-rx-speed=64000 nas-tx-speed=64000

\*Mar 4 19:46:29.000: ISDN Se0:23: TX -> DISCONNECT pd = 8 callref = 0x800C

\*Mar 4 19:46:29.000: Cause i = 0x8090 - Normal call clearing

\*Mar 4 19:46:29.000: Vi1 AAA/AUTHOR/PER-USER: Event IP\_DOWN

\*Mar 4 19:46:29.000: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to down

\*Mar 4 19:46:29.004: Vi1 VTEMPLATE: Free vaccess

\*Mar 4 19:46:29.004: Vi1 AAA/AUTHOR/PER-USER: Event LCP\_DOWN

\*Mar 4 19:46:29.052: ISDN Se0:23: RX <- RELEASE pd = 8 callref = 0x0C

\*Mar 4 19:46:29.064: ISDN Se0:23: TX -> RELEASE\_COMP pd = 8 callref = 0x800C

\*Mar 4 19:46:29.064: Se0:18 AAA/AUTHOR/PER-USER: Event LCP\_DOWN

\*Mar 4 19:46:29.208: TAC+: (3109010012): received acct response status = SUCCESS

\*Mar 4 19:46:29.580: VTEMPLATE: Clean up dirty vaccess queue, size 1

\*Mar 4 19:46:29.580: Vi1 VTEMPLATE: Found a dirty vaccess clone with vtemplate/AAA

\*Mar 4 19:46:29.580: Vi1 VTEMPLATE: \*\*\*\*\* UNCLONE VACCESS1 \*\*\*\*\*

\*Mar 4 19:46:29.580: Vi1 VTEMPLATE: Unclone to-be-freed command#2

interface Virtual-Access1

default ppp timeout idle 60

default timeout absolute 1 30

end

\*Mar 4 19:46:29.596: Vi1 VTEMPLATE: Set default settings with no ip address

\*Mar 4 19:46:29.616: Vi1 VTEMPLATE: Remove cloneblk AAA with vtemplate/AAA

\*Mar 4 19:46:29.616: Vi1 VTEMPLATE: \*\*\*\*\* UNCLONE VACCESS1 \*\*\*\*\*

\*Mar 4 19:46:29.616: Vi1 VTEMPLATE: Unclone to-be-freed command#15

interface Virtual-Access1

default multilink max-links 2

default ppp multilink



```
default ppp authentication chap pap ms-chap
default ppp callback accept
default compress mppc
default peer default ip address pool default
default keepalive
default ip nat inside
default ip accounting output-packets
default ip directed-broadcast
default ip helper-address 172.16.24.118
default ip access-group 199 in
default ip unnumbered Loopback0
default 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
```

## [Gerelateerde informatie](#)

- [Ondersteuning van kiestechnologie](#)
- [Technische ondersteuning - Cisco-systemen](#)