

PPP-Timeouts pro Benutzer

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Dieser technische Tipp erläutert, wie Zeitüberschreitungen pro Benutzer auf Cisco Access-Servern implementiert werden. Damit Timeouts pro Benutzer ordnungsgemäß funktionieren, müssen Sie Cisco IOS Version 11.3(8)T oder höher ausführen. Wenn Sie eine ältere Version von Cisco IOS ausführen, funktionieren die Timer möglicherweise nur in bestimmten Basiskonfigurationen, z. B. async, ohne virtuelle Profile.

Dieses Dokument behandelt die Konfiguration des Netzwerkzugriffsservers (NAS) und des AAA-Servers (Authentication, Authorization, Accounting). Außerdem werden **show** and **debug**-Befehlsausgaben bereitgestellt, sodass Sie überprüfen können, ob die Geräte ordnungsgemäß funktionieren, und Probleme damit beheben können.

[Voraussetzungen](#)

[Anforderungen](#)

Für dieses Dokument bestehen keine speziellen Anforderungen.

Verwendete Komponenten

Die Informationen in diesem Dokument basieren auf den folgenden Software- und Hardwareversionen:

- Cisco IOS Version 11.3(8)T oder höher

Die Informationen in diesem Dokument wurden von den Geräten in einer bestimmten Laborumgebung erstellt. Alle in diesem Dokument verwendeten Geräte haben mit einer leeren (Standard-)Konfiguration begonnen. Wenn Ihr Netzwerk in Betrieb ist, stellen Sie sicher, dass Sie die potenziellen Auswirkungen eines Befehls verstehen.

Konventionen

Weitere Informationen zu Dokumentkonventionen finden Sie unter [Cisco Technical Tips Conventions](#).

Technische Details

Bevor Sie Timeouts pro Benutzer diskutieren, die andere Variablen wie AAA-Konfiguration und RADIUS/TACACS+-Server enthalten, werden wir untersuchen, wie ein Zugriffsserver für feste Zeitüberschreitungen konfiguriert wird. Dies sind Zeitüberschreitungen, die global angewendet werden und auf alle Benutzer angewendet werden, die sich einwählen.

Die wichtigsten Cisco IOS-Befehle sind **Dialer-Timeout (Leerlaufzeitüberschreitung)** und **Timeout (absolute Zeitüberschreitung)**. Beide sind Schnittstellenkonfigurationsbefehle. Außerdem wird ein dritter Befehl, **ppp timeout idle**, erläutert, der auf Zugriffs-Schnittstellen verwendet wird.

Leerlaufzeitüberschreitung beim Wähler <x>

Dieser Befehl kann auf jeder Dialer-fähigen Schnittstelle konfiguriert werden und bestimmt, wie lange die Verbindung vor dem Beenden nicht aktiv sein kann (in Sekunden). Nachstehend sind vier Punkte aufgeführt, die Sie über diesen Befehl beachten sollten:

1. Dieser Befehl kann nur auf Schnittstellen angewendet werden, die dialer-fähig sind. Standardmäßig sind alle ISDN-Schnittstellen (BRI und PRI) dialer-fähig, daher ist das Hinzufügen dieses Befehls kein Problem. Async-Schnittstellen (einschließlich Gruppen-Async-Schnittstellen) sind standardmäßig nicht dialer-fähig. Sie müssen sie durch Eingabe des Befehls **Dialer in Band** vornehmen. Erst nach Eingabe des **In-Band-Befehls des Dialers** auf der asynchronen Schnittstelle können Sie **Leerlaufzeitüberschreitungen** konfigurieren. **Hinweis**: Die Vorlage (und damit die Zugriffsschnittstellen) sind nicht wählerfähig (sie sind nur Punkt-zu-Punkt) und können daher diesen Befehl nicht verwenden.
2. Auf einer Dialer-fähigen Schnittstelle (ISDN oder async mit Dialer-In-Band) ist die Standardeinstellung **Dialer Inaktivität 120** (Sekunden). Dies ist in einer ISP-Umgebung im Allgemeinen zu kurz, daher sollten Sie dies fast immer erhöhen.
3. Die **Leerlaufzeitüberschreitung** wird standardmäßig nur für ausgehenden Datenverkehr (Datenverkehr zum Benutzer) zurückgesetzt, der mit der Wählliste übereinstimmt (d. h., sie wird als interessant angesehen). Es ist auch möglich, das Schlüsselwort für eingehenden

interessanten Datenverkehr zurückzusetzen, indem Sie das **entsprechende** Schlüsselwort am Ende des Befehls hinzufügen (d. h. **Dialer Inaktivität-Zeitüberschreitung 600**).

4. Datenverkehr, der als "interessant" eingestuft wird, wird durch den **Wählerlisten-Befehl <n>** definiert, der <n> der Nummer in der **Wählergruppe <n>** entspricht.

timeout absolute <x> <y>

Dieser Befehl kann auf jeder WAN-Schnittstelle konfiguriert werden, einschließlich asynchroner Schnittstellen, ISDN-Schnittstellen, Dialer-Schnittstellen und Vorlagenschnittstellen. Sie steuert, wie lange die Verbindung vor dem Beenden verfügbar sein kann. Beachten Sie, dass die Syntax **<x> <y>** in Minuten und **<y>** in **Sekunden** liegt.

ppp timeout idle <x>

Dieser Befehl kann nur auf Vorlagenschnittstellen konfiguriert werden (und ist sogar im Parser verborgen) und steuert, wie lange die Verbindung vor dem Beenden (in Sekunden) inaktiv sein kann. Seine Funktion ist sehr ähnlich wie die des Befehls **Dialer Leerlauf-Timeout** an Dialer-Schnittstellen, nur **ppp timeout idle** ist für vtemplate/vaccess-Schnittstellen. Da dieser Befehl speziell für vTemplate/vAccess-Schnittstellen verwendet wird, eignet er sich für Virtual-Profile-Konfigurationen (bei denen immer eine Zugriffsschnittstelle für einen Benutzer erstellt wird) und für Virtual Private Dial-up-Netzwerk (VPDN)-Home-Gateways (bei denen die geplanten Schnittstellen immer auf einer Zugriffsebene terminiert werden). Im Gegensatz zum Befehl **dialer idle-timeout** gibt es kein Konzept für interessanten Datenverkehr, sodass der gesamte Benutzerdatenverkehr den Timer für Leerlaufzeiten zurücksetzt. Nicht benutzerdefinierter Datenverkehr wie LCP-Keepalives (Link Control Protocol) und NCP-Verhandlungspakete (Network Control Protocol) setzen den Timer nicht zurück.

Konfigurieren

In diesem Abschnitt erhalten Sie Informationen zum Konfigurieren der in diesem Dokument beschriebenen Funktionen.

Hinweis: Um weitere Informationen zu den in diesem Dokument verwendeten Befehlen zu erhalten, verwenden Sie das [Command Lookup Tool](#) ([nur registrierte](#) Kunden).

In diesem Dokument werden folgende Konfigurationen verwendet:

- [Basiskonfiguration \(virtuelle Profile nicht aktiviert\)](#)
- [Globale Zeitüberschreitungen](#)
- [Timeouts pro Benutzer - AAA-Serverkonfiguration](#)
- [Timeouts pro Benutzer - NAS-Konfiguration](#)

Basiskonfiguration (virtuelle Profile nicht aktiviert)

Zu Lernzwecken wird eine Basiskonfiguration wie die unten gezeigte angenommen. Die Funktion für virtuelle Profile ist nicht aktiviert.

Basiskonfiguration
! version 11.3

```
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname access-3
!
aaa new-model
aaa authentication login default tacacs+ local
aaa authentication login console none
aaa authentication login use-radius local radius
aaa authentication enable default enable
aaa authentication ppp default if-needed local tacacs+
aaa authentication ppp use-radius if-needed local radius
aaa authentication arap default local
aaa authorization exec default tacacs+ local
aaa authorization exec console none
aaa authorization exec use-radius local radius if-
authenticated
aaa authorization network default local tacacs+ if-
authenticated
aaa authorization network use-radius local radius if-
authenticated
aaa accounting exec default stop-only tacacs+
aaa accounting network default stop-only tacacs+
aaa accounting system default start-stop tacacs+
enable secret 5 $1$0MKx$kPcop1zxkpxa8fkxXBWp21
!
modem call-record terse
modem buffer-size 250
no ip finger
!
isdn switch-type primary-5ess
clock timezone PST -8
clock summer-time PDT recurring
!

controller T1 0
 framing esf
 clock source line primary
 linecode b8zs
 pri-group timeslots 1-24
! interface Loopback0 ip address 10.1.1.1 255.255.255.0
no ip directed-broadcast ! interface Ethernet0 ip
address 172.16.1.1 255.255.255.0 no ip directed-
broadcast ! interface Virtual-Template1 ip unnumbered
Loopback0 no ip directed-broadcast no keepalive peer
default ip address pool default ppp authentication chap
pap use-radius ppp multilink ! interface Serial0:23 ip
unnumbered Loopback0 no ip directed-broadcast
encapsulation ppp no logging event link-status no
keepalive dialer-group 1 autodetect encapsulation ppp
v120 isdn switch-type primary-5ess isdn incoming-voice
modem peer default ip address pool default no fair-queue
no cdp enable ppp max-bad-auth 3 ppp authentication chap
pap use-radius ppp multilink ! ! interface Group-Async1
ip unnumbered Loopback0 no ip directed-broadcast
encapsulation ppp no logging event link-status async
mode interactive peer default ip address pool default no
fair-queue no cdp enable ppp max-bad-auth 3 ppp
authentication chap pap use-radius ppp multilink group-
range 1 96 hold-queue 10 in ! ip local pool default
10.1.1.2 10.1.1.200 ip classless ip route 0.0.0.0
0.0.0.0 172.16.1.254 ! no logging console dialer-list 1
protocol ip permit tacacs-server host 172.16.1.201
```

```
tacacs-server key cisco radius-server host 172.16.1.202
auth-port 1645 acct-port 1646 key cisco ! line con 0
exec-timeout 0 0 authorization exec console login
authentication console transport input none line 1 96
autoselect during-login autoselect ppp modem Dialin
escape-character BREAK authorization exec use-radius
login authentication use-radius line aux 0 line vty 0 4
exec-timeout 60 0 ! end
```

Globale Zeitüberschreitungen

Im nächsten Beispiel wird ein Timeout für Leerlaufzeiten von 30 Minuten (1800 Sekunden) und drei Stunden (180 Minuten) für Benutzer festgelegt. Die Delta-Konfigurationsänderung, die **globale PoP-Timeouts** ermöglicht, ist wie folgt:

```
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
```

Wenn Sie keine Dialer-Liste 1 haben, müssen Sie eine angeben. Die einfachste wäre die **Wählerliste 1 Protokoll-IP-Genehmigung**.

Wenn Sie virtuelle Profile verwenden, kann die Konfiguration einfacher sein, da Sie die Zeitüberschreitung einfach auf die **Virtual-Template-Schnittstelle** einstellen können, wie unten gezeigt:

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

Timeouts pro Benutzer - AAA-Serverkonfiguration

Nachdem wir an globalen Zeitüberschreitungen gearbeitet haben, werden wir dieses Wissen auf Zeitüberschreitungen pro Benutzer erweitern. Die Werte für die Timer pro Benutzer werden während der Netzwerkautorisierung heruntergefahren. Daher muss der Befehl **aaa authorized network** (Autorisierungsnetzwerk für alle verwendeten Methoden, RADIUS oder TACACS+, konfiguriert sein. Beachten Sie außerdem, dass Timer pro Benutzer immer alle globalen Werte überschreiben, die auf dem NAS vorkonfiguriert sind. Die Funktionsweise der Timer pro Benutzer besteht darin, dass der Zugriffsserver, wenn er die Timeout-Attribute während der Netzwerkautorisierungsphase erhält, diese Attribute in eine Reihe von Konfigurationsbefehlen übersetzt, die in die Schnittstelle eingegeben werden, mit der der Benutzer verbunden wird. Diese Konfigurationsbefehle, die von einem Hintergrundprozess in die Schnittstelle eingegeben werden, sind temporär. Sie werden entfernt, wenn der Benutzer die Verbindung trennt.

Im Folgenden sind einige Beispielbenutzerprofile auf dem Server aufgeführt:

RADIUS-Profil

```
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
```

Hinweis: Die Syntax kann je nach Einrichtung des Wörterbuchs variieren.

TACACS+-Profile

```
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"  
    }  
}
```

[Timeouts pro Benutzer - NAS-Konfiguration](#)

Wenn Sie nur async (kein ISDN) betreiben und keine virtuellen Profile verwenden, solange Sie auf den asynchronen Schnittstellen (oder Gruppen-Async-Schnittstellen) **Dialer-In-Band** konfiguriert haben, sollten die Timer pro Benutzer funktionieren. Beim Hintergrundprozess werden die Timer an die async-Schnittstelle eingefügt. Dabei werden die **Befehle** für **Leerlaufzeitüberschreitung** und **absolute Zeitüberschreitung** mit den von RADIUS/TACACS+ übergebenen Werten verwendet, und diese werden entfernt, wenn der Benutzer die Verbindung trennt.

Wenn Sie nur async (kein ISDN) betreiben und virtuelle Profile verwenden, benötigen Sie keinen **Dialer in-band**, der auf der asynchronen (oder Gruppen-Async)-Schnittstelle konfiguriert ist. Es sollte einfach funktionieren. Beim Hintergrundprozess werden die Timer an die Zugriffsoberfläche eingefügt. Dabei werden die **Befehle** für das **Leerlauf-Timeout** und das **absolute Timeout** mit den von RADIUS/TACACS+ übergebenen Werten verwendet, und diese werden entfernt, wenn der Benutzer die Verbindung trennt.

Wenn Sie ISDN-Benutzer haben und Timer pro Benutzer erstellen müssen, müssen Sie möglicherweise virtuelle Profile verwenden. Der Grund hierfür ist, dass der von uns vorhin beschriebene Hintergrundprozess für ISDN-Schnittstellen nicht funktioniert. Das heißt, Sie können den B-Kanal nicht konfigurieren, mit dem der Benutzer verbunden ist. Sie können nur den D-Channel konfigurieren, der alle betrifft. Wenn ein Benutzer jedoch Multilink für eine Sitzung aushandelt, erstellt der Access-Server automatisch eine Virtual-Access-Schnittstelle, die als Paketschnittstelle für den Benutzer fungiert. Der Hintergrundprozess funktioniert auf virtuellen Zugriffsschnittstellen, funktioniert aber nicht bei einem Nicht-Multilink-ISDN-Anruf, bei dem keine virtuelle Zugriffsschnittstelle vorhanden ist. Wenn Sie also einzelne B-Channel-Benutzer haben, die keine Multilink-Aushandlungen aushandeln und für diese Zeitüberschreitungen pro Benutzer installieren möchten, müssen Sie virtuelle Profile aktivieren. Die Aktivierung virtueller Profile erfordert die Erstellung einer Zugriffsschnittstelle für alle Benutzer (nicht nur für die Multilink-Benutzer). Der Hintergrundprozess kann die **ppp timeout idle** und **timeout absolute** Befehle erfolgreich einfügen. Wenn Sie virtuelle Profile nicht aktivieren, können async-Benutzer und Multilink-ISDN-Benutzer Timeouts pro Benutzer zuweisen. Nicht-Multilink-ISDN-Benutzern können jedoch keine Timeouts pro Benutzer zugewiesen werden. Es gelten nur die globalen Timeouts, die statisch auf der Schnittstelle konfiguriert sind (falls vorhanden). Wenn Sie versuchen, Timeouts pro Benutzer auf einen Nicht-Multilink-ISDN-Benutzer anzuwenden, ohne dass die virtuellen Profile aktiviert sind, schlägt die Benutzerverbindung die Autorisierung fehl, da der Zugriffsserver die obligatorischen Timeout-Attribute pro Benutzer nicht verarbeiten konnte.

Darüber hinaus wurde Cisco IOS 11.3(8.1)T und Folgeversionen eine Funktion hinzugefügt, mit der benutzerspezifische Timeouts auf Nicht-Multilink-ISDN-Benutzer angewendet werden können. Dabei wird im Wesentlichen der in der Regel verwendete Hintergrundprozess-Konfigurationsmodus umgangen und die Timer direkt auf den B-Kanal eingestellt, ohne die Befehlszeilenschnittstelle zu verwenden.

Diese komplizierte Konfiguration lässt sich anhand der folgenden zwei Regeln zusammenfassen:

- Wenn Sie keine virtuellen Profile verwenden, konfigurieren Sie den **Dialer-In-Band** auf den asynchronen Schnittstellen, und führen Sie Cisco IOS 11.3(8.1)T oder höher aus. Wenn Sie Cisco IOS 11.3(8)T verwenden, achten Sie darauf, dass für ISDN-Benutzer, die nicht mehrere Verbindungen verwenden, keine Timeouts pro Benutzer angewendet werden können. Andernfalls wird die Verbindung nicht hergestellt.
- Wenn virtuelle Profile verwendet werden, funktioniert Cisco IOS 11.3(8)T oder höher gut.

Überprüfen

Für diese Konfiguration ist derzeit kein Überprüfungsverfahren verfügbar.

Fehlerbehebung

Dieser Abschnitt enthält Informationen zur Fehlerbehebung in Ihrer Konfiguration. Zum Debuggen

sind sechs Beispiele für die Ausgabe von Aufrufen enthalten. Um direkt zu einem bestimmten Abschnitt zu springen, wählen Sie einen der folgenden Links:

Bestimmte **show**-Befehle werden vom [Output Interpreter Tool](#) unterstützt (nur [registrierte](#) Kunden), mit dem Sie eine Analyse der **show**-Befehlsausgabe anzeigen können.

Hinweis: Bevor Sie **Debugbefehle** ausgeben, lesen Sie [Wichtige Informationen über Debug-Befehle](#).

- [Async Call with Virtual Profiles \(Async-Anruf mit virtuellen Profilen\) - Verbindung wird nicht deaktiviert](#)
- [Async Call with Virtual Profiles - Connection Idds Out](#)
- [Async Call ohne virtuelle Profile](#)
- [Multilink Single-Channel-ISDN-Anruf ohne virtuelle Profile](#)
- [Nicht-Multilink Single-Channel-ISDN-Anruf ohne virtuelle Profile](#)
- [Nicht-Multilink Single-Channel-ISDN-Anruf mit virtuellen Profilen](#)

Hinweis: Um die gleichen Befehle und Ausgaben anzuzeigen, die unten dargestellt werden, müssen Sie Cisco IOS Version 11.3AA oder Version 12.0T ausführen.

[Async Call with Virtual Profiles \(Async-Anruf mit virtuellen Profilen\) - Verbindung wird nicht deaktiviert](#)

Unten sehen Sie einen asynchronen Anruf mit virtuellen Profilen. Das Profil installiert ein absolutes Timeout von 90 Sekunden und ein Timeout bei Leerlaufzeiten von 60 Sekunden. In diesem Beispiel wird die Verbindung nicht deaktiviert. Weitere Einzelheiten finden Sie in den Kommentaren in der unten stehenden Ausgabe. Kommentare sind hervorgehoben und in kursiver Schrift dargestellt.

```
!--- ISDN setup message comes in. *Mar 4 19:21:47.772: ISDN Se0:23: RX <- SETUP pd = 8 callref =
0x09 *Mar 4 19:21:47.772: Bearer Capability i = 0x9090A2 *Mar 4 19:21:47.772: Channel ID i =
0xA98393 *Mar 4 19:21:47.772: Called Party Number i = 0xC1, '4085703932' *Mar 4 19:21:47.776:
ISDN Se0:23: TX -> CALL_PROC pd = 8 callref = 0x8009 *Mar 4 19:21:47.776: Channel ID i =
0xA98393 *Mar 4 19:21:47.776: ISDN Se0:23: TX -> ALERTING pd = 8 callref = 0x8009 !--- Modem is
allocated. *Mar 4 19:21:47.776: EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x3D, ces=0x1
bchan=0x12, event=0x1, cause=0x0 *Mar 4 19:21:47.776: VDEV_ALLOCATE: slot 1 and port 28 is
allocated. *Mar 4 19:21:47.776: EVENT_FROM_ISDN:(003D): DEV_INCALL at slot 1 and port 28 *Mar 4
19:21:47.776: CSM_PROC_IDLE: CSM_EVENT_ISDN_CALL at slot 1, port 28 *Mar 4 19:21:47.776: Mica
Modem(1/28): Configure(0x1 = 0x0) *Mar 4 19:21:47.776: Mica Modem(1/28): Configure(0x23 = 0x0)
*Mar 4 19:21:47.776: Mica Modem(1/28): Call Setup *Mar 4 19:21:47.932: Mica Modem(1/28): State
Transition to Call Setup !--- Modem goes offhook. *Mar 4 19:21:47.932: Mica Modem(1/28): Went
offhook *Mar 4 19:21:47.932: CSM_PROC_IC1_RING: CSM_EVENT_MODEM_OFFHOOK at slot 1, port 28 *Mar
4 19:21:47.932: ISDN Se0:23: TX -> CONNECT pd = 8 callref = 0x8009 *Mar 4 19:21:47.996: ISDN
Se0:23: RX <- CONNECT_ACK pd = 8 callref = 0x09 !--- DS0 is cut-through. *Mar 4 19:21:47.996:
EVENT_FROM_ISDN::dchan_idb=0x6122CFCC, call_id=0x3D, ces=0x1 bchan=0x12, event=0x4, cause=0x0
*Mar 4 19:21:47.996: EVENT_FROM_ISDN:(003D): DEV_CONNECTED at slot 1 and port 28 *Mar 4
19:21:47.996: CSM_PROC_IC4_WAIT_FOR_CARRIER: CSM_EVENT_ISDN_CONNECTED at slot 1, port 28 !---
Modem training starts. *Mar 4 19:21:47.996: Mica Modem(1/28): Link Initiate *Mar 4 19:21:49.140:
Mica Modem(1/28): State Transition to Connect *Mar 4 19:21:54.276: Mica Modem(1/28): State
Transition to Link *Mar 4 19:22:05.828: Mica Modem(1/28): State Transition to Trainup *Mar 4
19:22:09.028: Mica Modem(1/28): State Transition to EC Negotiating *Mar 4 19:22:09.568: Mica
Modem(1/28): State Transition to Steady State !--- Modem training completes. *Mar 4
19:22:10.128: AAA: parse NAME=tty53 idb TYPE=10 tty=53 *Mar 4 19:22:10.128: AAA: NAME=tty53
flags=0x11 TYPE=4 shelf=0 slot=0 adapter=0 port=53 channel=0 *Mar 4 19:22:10.128: AAA: parse
NAME=Serial0:18 idb TYPE=12 tty=-1 *Mar 4 19:22:10.128: AAA: NAME=Serial0:18 flags=0x51 TYPE=1
```



```
shelf=0 slot=0 adapter=0 port=0 channel=18 !--- PPP begins negotiation. *Mar 4 19:22:11.332:
As53 LCP: Lower layer not up, Fast Starting *Mar 4 19:22:11.332: As53 PPP: Treating connection
as a dedicated line *Mar 4 19:22:11.332: As53 AAA/AUTHOR/FSM: (0): LCP succeeds trivially !---
LCP negotiation completes, authentication begins. *Mar 4 19:22:13.556: As53 PPP: Phase is
AUTHENTICATING, by this end *Mar 4 19:22:13.556: As53 CHAP: O CHALLENGE id 1 len 26 from "STACK"
*Mar 4 19:22:16.016: As53 AUTH: Started process 0 pid 45 *Mar 4 19:22:16.016: As53
AAA/AUTHOR/PER-USER: Event LCP_DOWN *Mar 4 19:22:16.208: As53 PPP: Phase is AUTHENTICATING, by
this end *Mar 4 19:22:16.208: As53 CHAP: O CHALLENGE id 2 len 26 from "STACK" !--- CHAP response
received from client. *Mar 4 19:22:16.304: As53 CHAP: I RESPONSE id 2 len 30 from "timeout" *Mar
4 19:22:16.304: AAA: parse NAME=Async53 idb TYPE=10 tty=53 *Mar 4 19:22:16.304: AAA:
NAME=Async53 flags=0x11 TYPE=4 shelf=0 slot=0 adapter=0 port=53 channel=0 *Mar 4 19:22:16.304:
AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1 *Mar 4 19:22:16.304: AAA: NAME=Serial0:18
flags=0x51 TYPE=1 shelf=0 slot=0 adapter=0 port=0 channel=18 !--- Send RADIUS query. *Mar 4
19:22:16.304: RADIUS: ustruct sharecount=1 *Mar 4 19:22:16.304: RADIUS: Initial Transmit Async53
id 0 172.16.24.117:1645, Access-Request, len 92 *Mar 4 19:22:16.304: Attribute 4 6 AC101874 *Mar
4 19:22:16.304: Attribute 5 6 00000035 *Mar 4 19:22:16.304: Attribute 61 6 00000000 *Mar 4
19:22:16.304: Attribute 1 11 74696D65 *Mar 4 19:22:16.304: Attribute 30 12 34303835 *Mar 4
19:22:16.304: Attribute 3 19 0283D0F9 *Mar 4 19:22:16.308: Attribute 6 6 00000002 *Mar 4
19:22:16.308: Attribute 7 6 00000001 !--- Received RADIUS response, note attribute 27 (Session-
Timeout -> absolute timeout) !--- is 0x5A (90) and attribute 28 (Idle-Timeout) is 0x3C (60).
*Mar 4 19:22:16.316: RADIUS: Received from id 0 172.16.24.117:1645, Access-Accept, len 50 *Mar 4
19:22:16.316: Attribute 6 6 00000002 *Mar 4 19:22:16.320: Attribute 7 6 00000001 *Mar 4
19:22:16.320: Attribute 8 6 FFFFFFFE *Mar 4 19:22:16.320: Attribute 27 6 0000005A
*Mar 4 19:22:16.320: Attribute 28 6 0000003C
!--- Start LCP authorization. *Mar 4 19:22:16.320: As53 AAA/AUTHOR/LCP: Authorize LCP *Mar 4
19:22:16.320: AAA/AUTHOR/LCP As53 (3506139973): Port='Async53' list='' service=NET *Mar 4
19:22:16.320: AAA/AUTHOR/LCP: As53 (3506139973) send AV service=ppp *Mar 4 19:22:16.320:
AAA/AUTHOR/LCP: As53 (3506139973) send AV protocol=lcp *Mar 4 19:22:16.320: AAA/AUTHOR/LCP
(3506139973) found list "default" *Mar 4 19:22:16.320: AAA/AUTHOR/LCP: As53 (3506139973)
METHOD=RADIUS *Mar 4 19:22:16.320: AAA/AUTHOR (3506139973): Post authorization status =
PASS_REPL !--- Gleaned per-user timeouts from user profile. *Mar 4 19:22:16.320: As53
AAA/AUTHOR/LCP: Processing AV service=ppp *Mar 4 19:22:16.320: As53 AAA/AUTHOR/LCP: Processing
AV timeout=90
*Mar 4 19:22:16.320: As53 AAA/AUTHOR/LCP: Processing AV idletime=60
!--- Translate AAA attributes to interface configuration commands. !--- Since we are using
virtual-profiles, we will use the "ppp timeout idle" !--- command instead of the "dialer in-
band" command. Note that 90 second absolute timeout !--- translates to the command "timeout
absolute 1 30" (1 minute and 30 seconds). *Mar 4 19:22:16.320: AAA/AUTHOR/LCP As53: Per-user
interface config created:
timeout absolute 1 30
ppp timeout idle 60

!--- PPP authentication succeeds. *Mar 4 19:22:16.320: As53 CHAP: O SUCCESS id 2 len 4 *Mar 4
19:22:16.320: AAA/ACCT/NET/START User timeout, Port Async53, List "" *Mar 4 19:22:16.320:
AAA/ACCT/NET: Found list "default" !--- Create new vaccess interface. *Mar 4 19:22:16.416:
VTEMPLATE: No unused vaccess, create new vaccess *Mar 4 19:22:16.416: Vi1 VTEMPLATE: Set default
settings with no ip address, encaps ppp *Mar 4 19:22:16.440: Vi1 VTEMPLATE: Hardware address
00e0.1e81.636c *Mar 4 19:22:16.440: Vi1 VTEMPLATE: Has a new cloneblk vtemplate, now it has
vtemplate *Mar 4 19:22:16.440: Vi1 VTEMPLATE: ***** CLONE VACCESS1 *****
*Mar 4 19:22:16.440: Vi1 VTEMPLATE: Clone from Virtual-Template1 interface Virtual-Access1
default ip address no ip address encaps ppp ip unnumbered Loopback0 ip access-group 199 in ip
helper-address 172.16.24.118 no ip directed-broadcast ip accounting output-packets ip nat inside
no keepalive peer default ip address pool default compress mppc ppp callback accept ppp
authentication chap pap ms-chap ppp multilink multilink max-links 2 end *Mar 4 19:22:16.504: Vi1
CCP: Re-Syncing history using legacy method !--- Now add the per-user timeouts we constructed
for this user. *Mar 4 19:22:16.520: Vi1 VTEMPLATE: Has a new cloneblk AAA, now it has
vtemplate/AAA *Mar 4 19:22:16.520: Vi1 VTEMPLATE: ***** CLONE VACCESS1 *****
*Mar 4 19:22:16.520: Vi1 VTEMPLATE: Clone from AAA
interface Virtual-Access1
timeout absolute 1 30
ppp timeout idle 60
end

!--- LCP layer is finished, negotiate the appropriate NCPs. *Mar 4 19:22:16.532: %LINK-3-UPDOWN:
```

```

Interface Virtual-Access1, changed state to up *Mar 4 19:22:16.536: Vi1 PPP: Treating connection
as a dedicated line *Mar 4 19:22:16.536: Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially *Mar 4
19:22:16.536: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP? *Mar 4 19:22:16.536: AAA/AUTHOR/FSM
Vi1 (1906691625): Port='Async53' list='' service=NET *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1
(1906691625) send AV service=ppp *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (1906691625) send AV
protocol=ip *Mar 4 19:22:16.536: AAA/AUTHOR/FSM (1906691625) found list "default" *Mar 4
19:22:16.536: AAA/AUTHOR/FSM: Vi1 (1906691625) METHOD=RADIUS *Mar 4 19:22:16.536: RADIUS: Using
NAS default peer *Mar 4 19:22:16.536: RADIUS: Authorize IP address 0.0.0.0 *Mar 4 19:22:16.536:
AAA/AUTHOR (1906691625): Post authorization status = PASS_REPL *Mar 4 19:22:16.536: Vi1
AAA/AUTHOR/FSM: We can start IPCP *Mar 4 19:22:16.536: Vi1 AAA/AUTHOR/FSM: (0): Can we start
CCP? *Mar 4 19:22:16.536: AAA/AUTHOR/FSM Vi1 (282953275): Port='Async53' list='' service=NET
*Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (282953275) send AV service=ppp *Mar 4 19:22:16.536:
AAA/AUTHOR/FSM: Vi1 (282953275) send AV protocol=ccp *Mar 4 19:22:16.536: AAA/AUTHOR/FSM
(282953275) found list "default" *Mar 4 19:22:16.536: AAA/AUTHOR/FSM: Vi1 (282953275)
METHOD=RADIUS *Mar 4 19:22:16.540: AAA/AUTHOR (282953275): Post authorization status = PASS_REPL
*Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/FSM: We can start CCP *Mar 4 19:22:16.540: Vi1
AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0 *Mar 4 19:22:16.540: Vi1
AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Processing
AV addr=0.0.0.0 *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded *Mar 4
19:22:16.540: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0 *Mar 4
19:22:16.540: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's *Mar 4 19:22:16.540: Vi1
AAA/AUTHOR/FSM: Processing AV service=ppp *Mar 4 19:22:16.540: Vi1 AAA/AUTHOR/FSM: Succeeded
*Mar 4 19:22:16.656: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's *Mar 4
19:22:16.656: Vi1 AAA/AUTHOR/FSM: Processing AV service=ppp *Mar 4 19:22:16.656: Vi1
AAA/AUTHOR/FSM: Succeeded *Mar 4 19:22:17.536: %LINEPROTO-5-UPDOWN: Line protocol on Interface
Virtual-Access1, changed state to up *Mar 4 19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Start. Her
address 0.0.0.0, we want 10.1.1.3 *Mar 4 19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Processing AV
service=ppp *Mar 4 19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0 *Mar 4
19:22:19.516: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded *Mar 4 19:22:19.516: Vi1
AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.1.1.3 *Mar 4 19:22:19.608: Vi1
AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.1.1.3 *Mar 4 19:22:19.608: Vi1
AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 4 19:22:19.608: Vi1 AAA/AUTHOR/IPCP: Processing
AV addr=0.0.0.0 *Mar 4 19:22:19.608: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded *Mar 4
19:22:19.612: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.1.1.3 *Mar 4
19:22:19.704: Vi1 AAA/AUTHOR/IPCP: Start. Her address 10.1.1.3, we want 10.1.1.3 *Mar 4
19:22:19.704: AAA/AUTHOR/IPCP Vi1 (785695075): Port='Async53' list='' service=NET *Mar 4
19:22:19.708: AAA/AUTHOR/IPCP: Vi1 (785695075) send AV service=ppp *Mar 4 19:22:19.708:
AAA/AUTHOR/IPCP: Vi1 (785695075) send AV protocol=ip *Mar 4 19:22:19.708: AAA/AUTHOR/IPCP: Vi1
(785695075) send AV addr*10.1.1.3 *Mar 4 19:22:19.708: AAA/AUTHOR/IPCP (785695075) found list
"default" *Mar 4 19:22:19.708: AAA/AUTHOR/IPCP: Vi1 (785695075) METHOD=RADIUS *Mar 4
19:22:19.708: RADIUS: Using NAS default peer *Mar 4 19:22:19.708: RADIUS: Authorize IP address
10.1.1.3 *Mar 4 19:22:19.708: AAA/AUTHOR (785695075): Post authorization status = PASS_REPL *Mar
4 19:22:19.708: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 4 19:22:19.708: Vi1
AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.3 *Mar 4 19:22:19.708: Vi1 AAA/AUTHOR/IPCP:
Authorization succeeded *Mar 4 19:22:19.708: Vi1 AAA/AUTHOR/IPCP: Done. Her address 10.1.1.3, we
want 10.1.1.3 *Mar 4 19:22:19.708: Vi1 AAA/AUTHOR/PER-USER: Event IP_UP *Mar 4 19:22:19.708: Vi1
AAA/PER-USER: processing author params. !--- PPP negotiation finished, user is connected. !---
User is connected on line 53, async interface 53 and vaccess 1. The "show caller" !---
command shows active time and idle time for this user in Cisco IOS 11.3(8.1)AA or later. access-3#show
caller

```

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

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```

access-3#show caller timeout

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

access-3#show caller

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

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

Type escape sequence to abort.

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

!!!!!

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

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

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

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

Type escape sequence to abort.

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

!!!!

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

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

Line	User	Session Timeout	Idle Timeout	Disconnect User in
tty 53	timeout	-	-	-
As53	timeout	-	-	-
Vi1	timeout	00:01:30	00:01:00	00:00:24

access-3#show caller user timeout

User: timeout, line tty 53, service Async

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

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

TTY: Line 53, running PPP on As53

Location: MICA V.90 modems

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

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

HW PPP Support Active

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

Hardware Flowcontrol Out, Modem Callout, Modem RI is CD

Line usable as async interface, ARAP Permitted

Integrated Modem

Modem State: Ready

User: timeout, line As53, service PPP

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

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

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

IP: Local 10.1.1.1

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

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

32 packets output, 897 bytes, 0 underruns

0 output errors, 0 collisions, 0 interface resets

User: timeout, line Vi1, service PPP VDP

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

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

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

Idle timer 60 secs, idle 12 secs

IP: Local 10.1.1.1, remote 10.1.1.3

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

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

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

39 packets output, 547 bytes, 0 underruns

0 output errors, 0 collisions, 0 interface resets

!--- User is disconnected.

```

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

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

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

```

[Async Call with Virtual Profiles - Connection Idds Out](#)

Unten sehen Sie einen asynchronen Anruf mit virtuellen Profilen. Er hat den gleichen Benutzernamen wie im Beispiel oben. Das Profil installiert ein absolutes Timeout von 90 Sekunden und ein Timeout bei Leerlaufzeiten von 60 Sekunden. In diesem Beispiel wird die Verbindung deaktiviert. Im Folgenden sind keine Kommentare aufgeführt, aber wichtige Ergebnisse wurden hervorgehoben.

*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

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*Mar 4 19:25:06.916: Attribute 61 6 00000000
*Mar 4 19:25:06.916: Attribute 1 11 74696D65
*Mar 4 19:25:06.916: Attribute 30 12 34303835
*Mar 4 19:25:06.916: Attribute 3 19 024525C7
*Mar 4 19:25:06.916: Attribute 6 6 00000002
*Mar 4 19:25:06.916: Attribute 7 6 00000001
*Mar 4 19:25:06.924: RADIUS: Received from id 1 172.16.24.117:1645,
Access-Accept, len 50
*Mar 4 19:25:06.924: Attribute 6 6 00000002
*Mar 4 19:25:06.924: Attribute 7 6 00000001
*Mar 4 19:25:06.924: Attribute 8 6 FFFFFFFE
*Mar 4 19:25:06.924: Attribute 27 6 0000005A
*Mar 4 19:25:06.928: Attribute 28 6 0000003C
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Authorize LCP
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP As54 (2013841092): Port='Async54' list='' service=NET
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) send AV service=ppp
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) send AV protocol=lcp
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP (2013841092) found list "default"
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP: As54 (2013841092) METHOD=RADIUS
*Mar 4 19:25:06.928: AAA/AUTHOR (2013841092): Post authorization status = PASS_REPL
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar 4 19:25:06.928: As54 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar 4 19:25:06.928: AAA/AUTHOR/LCP As54: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60

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

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

*Mar 4 19:25:07.120: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up

```



```

*Mar 4 19:25:07.124: Vi1 PPP: Treating connection as a dedicated line
*Mar 4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar 4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar 4 19:25:07.124: AAA/AUTHOR/FSM Vi1 (3979277251): Port='Async54' list='' service=NET
*Mar 4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (3979277251) send AV service=ppp
*Mar 4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (3979277251) send AV protocol=ip
*Mar 4 19:25:07.124: AAA/AUTHOR/FSM (3979277251) found list "default"
*Mar 4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (3979277251) METHOD=RADIUS
*Mar 4 19:25:07.124: RADIUS: Using NAS default peer
*Mar 4 19:25:07.124: RADIUS: Authorize IP address 0.0.0.0
*Mar 4 19:25:07.124: AAA/AUTHOR (3979277251): Post authorization status = PASS_REPL
*Mar 4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: We can start IPCP
*Mar 4 19:25:07.124: Vi1 AAA/AUTHOR/FSM: (0): Can we start CCP?
*Mar 4 19:25:07.124: AAA/AUTHOR/FSM Vi1 (1524934880): Port='Async54' list='' service=NET
*Mar 4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (1524934880) send AV service=ppp
*Mar 4 19:25:07.124: AAA/AUTHOR/FSM: Vi1 (1524934880) send AV protocol=ccp
*Mar 4 19:25:07.128: AAA/AUTHOR/FSM (1524934880) found list "default"
*Mar 4 19:25:07.128: AAA/AUTHOR/FSM: Vi1 (1524934880) METHOD=RADIUS
*Mar 4 19:25:07.128: AAA/AUTHOR (1524934880): Post authorization status = PASS_REPL
*Mar 4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: We can start CCP
*Mar 4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0
*Mar 4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar 4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 4 19:25:07.128: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0
*Mar 4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's
*Mar 4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: Processing AV service=ppp
*Mar 4 19:25:07.128: Vi1 AAA/AUTHOR/FSM: Succeeded
*Mar 4 19:25:07.236: Vi1 AAA/AUTHOR/FSM: Check for unauthorized mandatory AV's
*Mar 4 19:25:07.236: Vi1 AAA/AUTHOR/FSM: Processing AV service=ppp
*Mar 4 19:25:07.236: Vi1 AAA/AUTHOR/FSM: Succeeded
*Mar 4 19:25:08.120: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up
*Mar 4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.1.1.3
*Mar 4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar 4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 4 19:25:10.124: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.1.1.3
*Mar 4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.1.1.3
*Mar 4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0
*Mar 4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 4 19:25:10.220: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.1.1.3
*Mar 4 19:25:10.316: Vi1 AAA/AUTHOR/IPCP: Start. Her address 10.1.1.3, we want 10.1.1.3
*Mar 4 19:25:10.316: AAA/AUTHOR/IPCP Vi1 (2714455877): Port='Async54' list='' service=NET
*Mar 4 19:25:10.316: AAA/AUTHOR/IPCP: Vi1 (2714455877) send AV service=ppp
*Mar 4 19:25:10.316: AAA/AUTHOR/IPCP: Vi1 (2714455877) send AV protocol=ip
*Mar 4 19:25:10.316: AAA/AUTHOR/IPCP: Vi1 (2714455877) send AV addr*10.1.1.3

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

```

access-3#show caller

Active Idle

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

access-3#show caller

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

access-3#show caller user timeout

User: timeout, line tty 54, service Async

Active time 00:00:49, Idle time 00:00:34

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

TTY: Line 54, running PPP on As54

Location: MICA V.90 modems

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

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

HW PPP Support Active

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

Hardware Flowcontrol Out, Modem Callout, Modem RI is CD

Line usable as async interface, ARAP Permitted

Integrated Modem

Modem State: Ready

User: timeout, line As54, service PPP

Active time 00:00:43, Idle time 00:00:34

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

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

IP: Local 10.1.1.1

Counts: 35 packets input, 824 bytes, 0 no buffer

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

22 packets output, 517 bytes, 0 underruns

0 output errors, 0 collisions, 0 interface resets

User: timeout, line Vi1, service PPP VDP

Active time 00:00:43, Idle time 00:00:41

Timeouts:	Absolute	Idle
Limits:	00:01:30	00:01:00
Disconnect in:	00:00:45	00:00:18

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

Idle timer 60 secs, idle 41 secs

IP: Local 10.1.1.1, remote 10.1.1.3

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

Counts: 24 packets input, 546 bytes, 0 no buffer

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

19 packets output, 167 bytes, 0 underruns

0 output errors, 0 collisions, 0 interface resets

access-3#show caller timeouts

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

*Mar 4 19:26:10.320: Vi1 PPP: Idle timeout, dropping connection

*Mar 4 19:26:10.320: As54 AAA/ACCT: non-ISDN xmit 50000 rcv 28800 hwidb 613360C8 ttynum 54

```

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

*Mar  4 19:26:10.440: ISDN Se0:23: Event: Hangup call to call id 0x3E
*Mar  4 19:26:10.440: ISDN Se0:23: TX -> DISCONNECT pd = 8 callref = 0x800A
*Mar  4 19:26:10.440:      Cause i = 0x8090 - Normal call clearing
*Mar  4 19:26:10.488: ISDN Se0:23: RX <- RELEASE pd = 8 callref = 0x0A
*Mar  4 19:26:10.496: ISDN Se0:23: TX -> RELEASE_COMP pd = 8 callref = 0x800A
*Mar  4 19:26:10.528: TAC+: (2047544826): received acct response status = SUCCESS
*Mar  4 19:26:11.180: VTEMPLATE: Clean up dirty vaccess queue, size 1
*Mar  4 19:26:11.180: Vi1 VTEMPLATE: Found a dirty vaccess clone with vtemplate/AAA
*Mar  4 19:26:11.180: Vi1 VTEMPLATE: ***** UNCLONE VACCESS1 *****
*Mar  4 19:26:11.180: Vi1 VTEMPLATE: Unclone to-be-freed command#2
interface Virtual-Access1
default ppp timeout idle 60
default timeout absolute 1 30
end

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

*Mar  4 19:26:11.304: Vi1 VTEMPLATE: Set default settings with no ip address
*Mar  4 19:26:11.324: Vi1 VTEMPLATE: Remove cloneblk vtemplate with vtemplate/AAA
*Mar  4 19:26:11.324: Vi1 VTEMPLATE: Add vaccess to recycle queue, queue SIZE=1
*Mar  4 19:26:11.324: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to down
*Mar  4 19:26:11.460: Mica Modem(1/29): State Transition to Terminating
*Mar  4 19:26:11.520: Mica Modem(1/29): State Transition to Idle
*Mar  4 19:26:12.200: %CALLRECORD-3-MICA_TERSE_CALL_REC: DS0 slot/contr/chan=2/0/18,
slot/port=1/29, call_id=3E, userid=timeout, ip=10.1.1.3, calling=(n/a), called=4085703932,
std=K56Flx, prot=LAP-M, comp=V.42bis both, init-rx/tx b-rate=28800/50000, finl-rx/tx
b-rate=28800/50000, rbs=0, d-pad=6 dB, retr=0, sq=3, snr=34, rx/tx chars=918/1138, bad=5,

```

```
rx/tx ec=35/47, bad=0, time=90, finl-state=Steady, disc(radius)=Idle Timeout/Idle Timeout,
disc(modem)=DF03 Tx (host to line) data flushing - OK/Requested by host/DTR dropped
*Mar 4 19:26:12.320: As54 AAA/AUTHOR/PER-USER: Event LCP_DOWN
```

Async Call ohne virtuelle Profile

Unten sehen Sie einen asynchronen Anruf ohne Aktivierung virtueller Profile. Beachten Sie, dass der Befehl **dialer idle-timeout** anstelle des Befehls **ppp timeout idle** verwendet wird, da keine virtuellen Profile verwendet werden und keine Zugriffsoberfläche vorhanden ist. Außerdem sehen Sie, wie der Befehl **Timeout pro Benutzer** und die **no**-Version der Befehle erstellt werden. Die **Timer-Befehle für jeden Benutzer** werden sofort installiert, während die Befehlsversion **no** in die Schnittstelle eingebunden wird, die verarbeitet wird, wenn der Benutzer die Verbindung trennt.

```
*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: 0 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: O SUCCESS id 1 len 4
*Mar 4 19:30:57.588: AAA/ACCT/NET/START User timeout, Port Async27, List ""
*Mar 4 19:30:57.588: AAA/ACCT/NET: Found list "default"
*Mar 4 19:30:57.692: As27 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar 4 19:30:57.692: AAA/AUTHOR/FSM As27 (2088523207): Port='Async27' list=''
service=NET
*Mar 4 19:30:57.692: AAA/AUTHOR/FSM: As27 (2088523207) send AV service=ppp
*Mar 4 19:30:57.692: AAA/AUTHOR/FSM: As27 (2088523207) send AV protocol=ip
*Mar 4 19:30:57.692: AAA/AUTHOR/FSM (2088523207) found list "default"
*Mar 4 19:30:57.692: AAA/AUTHOR/FSM: As27 (2088523207) METHOD=RADIUS
*Mar 4 19:30:57.692: RADIUS: Using NAS default peer
*Mar 4 19:30:57.692: RADIUS: Authorize IP address 10.1.1.6
*Mar 4 19:30:57.692: AAA/AUTHOR (2088523207): Post authorization status = PASS_REPL
*Mar 4 19:30:57.692: As27 AAA/AUTHOR/FSM: We can start IPCP
```

```

*Mar 4 19:30:57.784: As27 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.1.1.6
*Mar 4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
*Mar 4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 4 19:30:57.788: As27 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.1.1.6
*Mar 4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.1.1.6
*Mar 4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
*Mar 4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 4 19:31:00.792: As27 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.1.1.6
*Mar 4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.1.1.6
*Mar 4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
*Mar 4 19:31:00.884: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 4 19:31:00.888: As27 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.1.1.6
*Mar 4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Start. Her address 10.1.1.6, we want 10.1.1.6
*Mar 4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.6
*Mar 4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 4 19:31:00.984: As27 AAA/AUTHOR/IPCP: Done. Her address 10.1.1.6, we want 10.1.1.6
*Mar 4 19:31:00.984: As27 AAA/AUTHOR/PER-USER: Event IP_UP
*Mar 4 19:31:00.984: As27 AAA/PER-USER: processing author params.

```

access-3#show caller

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

access-3#show caller user timeout

User: timeout, line tty 27, service Async

Active time 00:00:28, Idle time 00:00:08

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

TTY: Line 27, running PPP on As27

Location: MICA V.90 modems

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

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

HW PPP Support Active

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

Hardware Flowcontrol Out, Modem Callout, Modem RI is CD

Line usable as async interface, ARAP Permitted

Integrated Modem

Modem State: Ready

User: timeout, line As27, service PPP

Active time 00:00:27, Idle time 00:00:25

Timeouts:	Absolute	Idle
Limits:	00:01:30	00:01:00
Disconnect in:	00:01:09	00:00:34

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

Dialer: Connected, inbound

Idle timer 60 secs, idle 25 secs

Type is IN-BAND ASYNC, group Async27

IP: Local 10.1.1.1, remote 10.1.1.6

Counts: 31 packets input, 1642 bytes, 0 no buffer

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

15 packets output, 347 bytes, 0 underruns

0 output errors, 0 collisions, 0 interface resets

access-3#show caller timeouts

Session	Idle	Disconnect
---------	------	------------

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

access-3#show caller timeouts

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

access-3#

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

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

```
*Mar 4 19:31:55.792: As27 AAA/AUTHOR/PER-USER: Event IP_DOWN
*Mar 4 19:31:55.792: As27 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar 4 19:31:55.792: As27 AAA/AUTHOR: down_event: peruser LCP txt=interface Async27
no timeout absolute
```

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

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

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

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

[Multilink Single-Channel-ISDN-Anruf ohne virtuelle Profile](#)

Unten sehen Sie einen Multilink-ISDN-Anruf ohne Aktivierung virtueller Profile. Da bei einem Multilink-Anruf eine Zugriffsschnittstelle erstellt wird, können die Timer einfach installiert werden.

```
*Mar 4 19:41:12.208: ISDN Se0:23: RX <- SETUP pd = 8 callref = 0x08
```

```
*Mar 4 19:41:12.212: Bearer Capability i = 0x8890
*Mar 4 19:41:12.212: Channel ID i = 0xA98393
*Mar 4 19:41:12.212: Calling Party Number i = '!', 0x80, '4085551200'
*Mar 4 19:41:12.212: Called Party Number i = 0xA1, '4085703930'
*Mar 4 19:41:12.212: ISDN Se0:23: TX -> CALL_PROC pd = 8 callref = 0x8008
*Mar 4 19:41:12.212: Channel ID i = 0xA98393
*Mar 4 19:41:12.224: ISDN Se0:23: TX -> CONNECT pd = 8 callref = 0x8008
*Mar 4 19:41:12.224: Channel ID i = 0xA98393
*Mar 4 19:41:12.296: ISDN Se0:23: RX <- CONNECT_ACK pd = 8 callref = 0x08
*Mar 4 19:41:12.536: Se0:18 PPP: Treating connection as a callin
*Mar 4 19:41:12.536: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar 4 19:41:14.536: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar 4 19:41:14.552: Se0:18 PPP: Phase is AUTHENTICATING, by this end
*Mar 4 19:41:14.552: Se0:18 CHAP: O CHALLENGE id 1 len 26 from "STACK"
*Mar 4 19:41:14.584: Se0:18 CHAP: I RESPONSE id 1 len 30 from "timeout"
*Mar 4 19:41:14.964: Se0:18 CHAP: I RESPONSE id 1 len 30 from "timeout"
*Mar 4 19:41:14.964: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar 4 19:41:14.964: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar 4 19:41:14.964: AAA: parse NAME= idb TYPE=-1 tty=-1
*Mar 4 19:41:14.964: RADIUS: ustruct sharecount=1
*Mar 4 19:41:14.964: RADIUS: Initial Transmit Serial0:18 id 4 172.16.24.117:1645,
Access-Request, len 104
*Mar 4 19:41:14.964: Attribute 4 6 AC101874
*Mar 4 19:41:14.964: Attribute 5 6 00004E32
*Mar 4 19:41:14.964: Attribute 61 6 00000002
*Mar 4 19:41:14.964: Attribute 1 11 74696D65
*Mar 4 19:41:14.964: Attribute 30 12 34303835
*Mar 4 19:41:14.964: Attribute 31 12 34303835
*Mar 4 19:41:14.964: Attribute 3 19 012C4E14
*Mar 4 19:41:14.964: Attribute 6 6 00000002
*Mar 4 19:41:14.964: Attribute 7 6 00000001
*Mar 4 19:41:14.972: RADIUS: Received from id 4 172.16.24.117:1645, Access-Accept, len 50
*Mar 4 19:41:14.972: Attribute 6 6 00000002
*Mar 4 19:41:14.972: Attribute 7 6 00000001
*Mar 4 19:41:14.972: Attribute 8 6 FFFFFFFE
*Mar 4 19:41:14.972: Attribute 27 6 0000005A
*Mar 4 19:41:14.972: Attribute 28 6 0000003C
*Mar 4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Authorize LCP
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP Se0:18 (4039479425): Port='Serial0:18' list=''
service=NET
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) send AV service=ppp
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) send AV protocol=lcp
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP (4039479425) found list "default"
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP: Se0:18 (4039479425) METHOD=RADIUS
*Mar 4 19:41:14.976: AAA/AUTHOR (4039479425): Post authorization status = PASS_REPL
*Mar 4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar 4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar 4 19:41:14.976: Se0:18 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar 4 19:41:14.976: AAA/AUTHOR/LCP Se0:18: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60
*Mar 4 19:41:14.976: Se0:18 CHAP: O SUCCESS id 1 len 4
*Mar 4 19:41:14.976: AAA/ACCT/NET/START User timeout, Port Serial0:18, List ""
*Mar 4 19:41:14.976: AAA/ACCT/NET: Found list "default"
*Mar 4 19:41:14.976: AAA/AUTHOR/MLP Se0:18 (1966034416): Port='Serial0:18' list=''
service=NET
*Mar 4 19:41:14.976: AAA/AUTHOR/MLP: Se0:18 (1966034416) send AV service=ppp
*Mar 4 19:41:14.976: AAA/AUTHOR/MLP: Se0:18 (1966034416) send AV protocol=multilink
*Mar 4 19:41:14.976: AAA/AUTHOR/MLP (1966034416) found list "default"
*Mar 4 19:41:14.976: AAA/AUTHOR/MLP: Se0:18 (1966034416) METHOD=RADIUS
*Mar 4 19:41:14.976: AAA/AUTHOR (1966034416): Post authorization status = PASS_REPL
*Mar 4 19:41:14.976: Vi1 VTEMPLATE: Reuse Vi1, recycle queue size 0
```

```
*Mar 4 19:41:14.980: Vi1 VTEMPLATE: Hardware address 00e0.1e81.636c
*Mar 4 19:41:14.980: Vi1 VTEMPLATE: Has a new cloneblk dialer, now it has dialer
*Mar 4 19:41:14.980: Vi1 VTEMPLATE: Has a new cloneblk AAA, now it has dialer/AAA
*Mar 4 19:41:14.980: Vi1 VTEMPLATE: ***** CLONE VACCESS1 *****
*Mar 4 19:41:14.980: Vi1 VTEMPLATE: Clone from AAA
```

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

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

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

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

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

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

```
User: timeout, line Vi1, service PPP Bundle
Active time 00:00:25, Idle time 00:00:26
Timeouts: Absolute Idle
Limits: 00:01:30 00:01:00
Disconnect in: 00:01:04 00:00:33
PPP: LCP Open, multilink Open
Idle timer 60 secs, idle 26 secs
Dialer: Connected to 4085551200, inbound
Type is IN-BAND SYNC, group Serial0:23
```



```

IP: Local 10.1.1.1
  Access list (I/O) is 199/not set
Bundle: First link of timeout/timeout, 1 link, last input 00:00:27
Counts: 0 packets input, 0 bytes, 0 no buffer
        0 input errors, 0 CRC, 0 frame, 0 overrun
        13 packets output, 236 bytes, 0 underruns
        0 output errors, 0 collisions, 0 interface resets

```

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

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

```
access-3#
```

```

*Mar  4 19:42:14.996: Vi1 PPP: Idle timeout, dropping connection
*Mar  4 19:42:14.996: Vi1 VTEMPLATE: Free vaccess
*Mar  4 19:42:14.996: Se0:18 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:42:15.000: Vi1 AAA/AUTHOR/PER-USER: Event LCP_DOWN
*Mar  4 19:42:15.004: Se0:18 AAA/ACCT: ISDN xmit 64000 rcv 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

```

[Nicht-Multilink Single-Channel-ISDN-Anruf ohne virtuelle Profile](#)

Unten sehen Sie einen Nicht-Multilink-ISDN-Anruf mit einem Kanal ohne Aktivierung virtueller Profile. In diesem Beispiel wird Cisco IOS 11.3(8.2)AA ausgeführt, damit diese Timer korrekt installiert werden können. Beachten Sie jedoch, dass dazu keine Konfigurationsbefehle erstellt wurden. Die Timer wurden intern im Code festgelegt.

```

*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
```

[Nicht-Multilink Single-Channel-ISDN-Anruf mit virtuellen Profilen](#)

Unten sehen Sie denselben Nicht-Multilink-ISDN-Benutzer für einen Kanal, diesmal jedoch mit aktivierten virtuellen Profilen. Beachten Sie, dass die Zugriffsschnittstelle erstellt wird, auch wenn

keine Multilink-Verbindung ausgehandelt wird, und wir erstellen die Konfigurationsbefehle zur Installation der Timer.

```
*Mar 4 19:45:00.480: ISDN Se0:23: RX <- SETUP pd = 8 callref = 0x0C
*Mar 4 19:45:00.480: Bearer Capability i = 0x8890
*Mar 4 19:45:00.480: Channel ID i = 0xA98393
*Mar 4 19:45:00.480: Calling Party Number i = '!', 0x80, '4085551200'
*Mar 4 19:45:00.480: Called Party Number i = 0xA1, '4085703930'
*Mar 4 19:45:00.480: ISDN Se0:23: TX -> CALL_PROC pd = 8 callref = 0x800C
*Mar 4 19:45:00.480: Channel ID i = 0xA98393
*Mar 4 19:45:00.492: ISDN Se0:23: TX -> CONNECT pd = 8 callref = 0x800C
*Mar 4 19:45:00.492: Channel ID i = 0xA98393
*Mar 4 19:45:00.564: ISDN Se0:23: RX <- CONNECT_ACK pd = 8 callref = 0x0C
*Mar 4 19:45:00.804: Se0:18 PPP: Treating connection as a callin
*Mar 4 19:45:00.804: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar 4 19:45:02.804: Se0:18 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar 4 19:45:02.828: Se0:18 PPP: Phase is AUTHENTICATING, by this end
*Mar 4 19:45:02.828: Se0:18 CHAP: O CHALLENGE id 3 len 26 from "STACK"
*Mar 4 19:45:02.860: Se0:18 CHAP: I RESPONSE id 3 len 30 from "timeout"
*Mar 4 19:45:02.860: AAA: parse NAME=Serial0:18 idb TYPE=12 tty=-1
*Mar 4 19:45:02.860: AAA: NAME=Serial0:18 flags=0x51 TYPE=1 shelf=0 slot=0
adapter=0 port=0 channel=18
*Mar 4 19:45:02.860: AAA: parse NAME= idb TYPE=-1 tty=-1
*Mar 4 19:45:02.860: RADIUS: ustruct sharecount=1
*Mar 4 19:45:02.860: RADIUS: Initial Transmit Serial0:18 id 6 172.16.24.117:1645,
Access-Request, len 104
*Mar 4 19:45:02.860: Attribute 4 6 AC101874
*Mar 4 19:45:02.860: Attribute 5 6 00004E32
*Mar 4 19:45:02.860: Attribute 61 6 00000002
*Mar 4 19:45:02.864: Attribute 1 11 74696D65
*Mar 4 19:45:02.864: Attribute 30 12 34303835
*Mar 4 19:45:02.864: Attribute 31 12 34303835
*Mar 4 19:45:02.864: Attribute 3 19 03D4E134
*Mar 4 19:45:02.864: Attribute 6 6 00000002
*Mar 4 19:45:02.864: Attribute 7 6 00000001
*Mar 4 19:45:02.868: RADIUS: Received from id 6 172.16.24.117:1645, Access-Accept, len 50
*Mar 4 19:45:02.868: Attribute 6 6 00000002
*Mar 4 19:45:02.868: Attribute 7 6 00000001
*Mar 4 19:45:02.868: Attribute 8 6 FFFFFFFE
*Mar 4 19:45:02.868: Attribute 27 6 0000005A
*Mar 4 19:45:02.868: Attribute 28 6 0000003C
*Mar 4 19:45:02.868: Se0:18 AAA/AUTHOR/LCP: Authorize LCP
*Mar 4 19:45:02.868: AAA/AUTHOR/LCP Se0:18 (2825271150): Port='Serial0:18' list=''
service=NET
*Mar 4 19:45:02.868: AAA/AUTHOR/LCP: Se0:18 (2825271150) send AV service=ppp
*Mar 4 19:45:02.868: AAA/AUTHOR/LCP: Se0:18 (2825271150) send AV protocol=lcp
*Mar 4 19:45:02.868: AAA/AUTHOR/LCP (2825271150) found list "default"
*Mar 4 19:45:02.868: AAA/AUTHOR/LCP: Se0:18 (2825271150) METHOD=RADIUS
*Mar 4 19:45:02.872: AAA/AUTHOR (2825271150): Post authorization status = PASS_REPL
*Mar 4 19:45:02.872: Se0:18 AAA/AUTHOR/LCP: Processing AV service=ppp
*Mar 4 19:45:02.872: Se0:18 AAA/AUTHOR/LCP: Processing AV timeout=90
*Mar 4 19:45:02.872: Se0:18 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar 4 19:45:02.872: AAA/AUTHOR/LCP Se0:18: Per-user interface config created:
timeout absolute 1 30
ppp timeout idle 60

*Mar 4 19:45:02.872: Se0:18 CHAP: O SUCCESS id 3 len 4
*Mar 4 19:45:02.872: AAA/ACCT/NET/START User timeout, Port Serial0:18, List ""
*Mar 4 19:45:02.872: AAA/ACCT/NET: Found list "default"
*Mar 4 19:45:02.872: Vi1 VTEMPLATE: Reuse Vi1, recycle queue size 0
*Mar 4 19:45:02.872: Vi1 VTEMPLATE: Hardware address 00e0.1e81.636c
*Mar 4 19:45:02.872: Vi1 VTEMPLATE: Has a new cloneblk vtemplate, now it has vtemplate
```

*Mar 4 19:45:02.872: Vi1 VTEMPLATE: ***** CLONE VACCESS1 *****

*Mar 4 19:45:02.872: Vi1 VTEMPLATE: Clone from Virtual-Templat1

```
interface Virtual-Access1
default ip address
no ip address
encap ppp
ip unnumbered Loopback0
ip access-group 199 in
ip helper-address 172.16.24.118
no ip directed-broadcast
ip accounting output-packets
ip nat inside
no keepalive
peer default ip address pool default
compress mppc
ppp callback accept
ppp authentication chap pap ms-chap
ppp multilink
multilink max-links 2
end
```

enabling payload compression on this interface.

*Mar 4 19:45:02.952: Vi1 VTEMPLATE: Has a new cloneblk AAA, now it has vtemplate/AAA

*Mar 4 19:45:02.952: Vi1 VTEMPLATE: ***** CLONE VACCESS1 *****

***Mar 4 19:45:02.952: Vi1 VTEMPLATE: Clone from AAA**

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

*Mar 4 19:45:02.976: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up

*Mar 4 19:45:02.976: Vi1 PPP: Treating connection as a dedicated line

*Mar 4 19:45:02.976: Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially

*Mar 4 19:45:02.980: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP?

*Mar 4 19:45:02.980: AAA/AUTHOR/FSM Vi1 (2657898442): Port='Serial0:18' list='' service=NET

*Mar 4 19:45:02.980: AAA/AUTHOR/FSM: Vi1 (2657898442) send AV service=ppp

*Mar 4 19:45:02.980: AAA/AUTHOR/FSM: Vi1 (2657898442) send AV protocol=ip

*Mar 4 19:45:02.980: AAA/AUTHOR/FSM (2657898442) found list "default"

*Mar 4 19:45:02.980: AAA/AUTHOR/FSM: Vi1 (2657898442) METHOD=RADIUS

*Mar 4 19:45:02.980: RADIUS: Using NAS default peer

*Mar 4 19:45:02.980: RADIUS: Authorize IP address 0.0.0.0

*Mar 4 19:45:02.980: AAA/AUTHOR (2657898442): Post authorization status = PASS_REPL

*Mar 4 19:45:02.980: Vi1 AAA/AUTHOR/FSM: We can start IPCP

*Mar 4 19:45:02.980: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0

*Mar 4 19:45:02.980: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp

*Mar 4 19:45:02.980: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=0.0.0.0

*Mar 4 19:45:02.980: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded

*Mar 4 19:45:02.980: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0

*Mar 4 19:45:02.996: Vi1 AAA/AUTHOR/IPCP: Start. Her address 10.1.1.3, we want 10.1.1.3

*Mar 4 19:45:02.996: AAA/AUTHOR/IPCP Vi1 (1804338759): Port='Serial0:18' list=''

service=NET

*Mar 4 19:45:02.996: AAA/AUTHOR/IPCP: Vi1 (1804338759) send AV service=ppp

*Mar 4 19:45:02.996: AAA/AUTHOR/IPCP: Vi1 (1804338759) send AV protocol=ip

*Mar 4 19:45:02.996: AAA/AUTHOR/IPCP: Vi1 (1804338759) send AV addr*10.1.1.3

*Mar 4 19:45:02.996: AAA/AUTHOR/IPCP (1804338759) found list "default"

*Mar 4 19:45:02.996: AAA/AUTHOR/IPCP: Vi1 (1804338759) METHOD=RADIUS

*Mar 4 19:45:02.996: RADIUS: Using NAS default peer

*Mar 4 19:45:02.996: RADIUS: Authorize IP address 10.1.1.3

*Mar 4 19:45:02.996: AAA/AUTHOR (1804338759): Post authorization status = PASS_REPL

*Mar 4 19:45:02.996: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp

*Mar 4 19:45:02.996: Vi1 AAA/AUTHOR/IPCP: Processing AV addr=10.1.1.3

*Mar 4 19:45:02.996: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded

*Mar 4 19:45:02.996: Vi1 AAA/AUTHOR/IPCP: Done. Her address 10.1.1.3, we want 10.1.1.3

*Mar 4 19:45:03.004: Vi1 AAA/AUTHOR/PER-USER: Event IP_UP

*Mar 4 19:45:03.004: Vi1 AAA/PER-USER: processing author params.
*Mar 4 19:45:03.996: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up
access-3#**show caller**

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

access-3#**show caller timeout**

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

User: timeout, line Vi1, service PPP VDP
Active time 00:00:15, Idle time 00:00:15
Timeouts: Absolute Idle
Limits: 00:01:30 00:01:00
Disconnect in: 00:01:13 00:00:44
PPP: LCP Open, multilink Closed, CHAP (<- none), IPCP
Idle timer 60 secs, idle 15 secs
IP: Local 10.1.1.1, remote 10.1.1.3
Access list (I/O) is 199/not set
Counts: 7 packets input, 370 bytes, 0 no buffer
0 input errors, 0 CRC, 0 frame, 0 overrun
19 packets output, 404 bytes, 0 underruns
0 output errors, 0 collisions, 0 interface resets

access-3#**show caller timeouts**

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

access-3#**ping 10.1.1.3**

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

access-3#**show caller timeouts**

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

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

User: timeout, line Se0:18, service PPP
Active time 00:00:34, Idle time 00:00:09
Timeouts: Absolute Idle
Limits: - -
Disconnect in: - -

```

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

```

```

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

```

```

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

```

access-3#show caller timeout

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

access-3#show caller timeouts

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

access-3#show caller

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

access-3#

```

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

```



```
default ppp timeout idle 60
default timeout absolute 1 30
end
```

```
*Mar 4 19:46:29.596: Vi1 VTEMPLATE: Set default settings with no ip address
*Mar 4 19:46:29.616: Vi1 VTEMPLATE: Remove cloneblk AAA with vtemplate/AAA
*Mar 4 19:46:29.616: Vi1 VTEMPLATE: ***** UNCLONE VACCESS1 *****
*Mar 4 19:46:29.616: Vi1 VTEMPLATE: Unclone to-be-freed command#15
```

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

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

[Zugehörige Informationen](#)

- [Support-Seiten für Wähltechnologie](#)
- [Technischer Support - Cisco Systems](#)