

# 在路由器与 Windows PC 之间配置 MS 回呼

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## 简介

回拨的Microsoft实施与RFC 1570不是兼容的。然而，由于Microsoft拨号网络客户端的大市场份额，Cisco实现Microsoft回叫(MSCB)控制协议到Cisco IOS软件版本11.3(2)T及以上版本。

## 先决条件

### 要求

尝试进行此配置之前，请确保满足以下要求：

- 配置网络接入服务器(NAS)接受从客户端的模拟呼叫。回拨是调制解调器拨入其它功能。所以，请验证此方面是否正确地作用。这可帮助您排除故障。
- T1/E1电路一定有能力在拨出上。与您的电话公司(Telco)联系验证此。

### 使用的组件

本文档中的信息根据Cisco IOS软件版本11.3(2)T及以上版本版本。

此方案在有Windows拨号网络的PC测试了。

本文档中的信息都是基于特定实验室环境中的设备创建的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您是在真实网络上操作，请确保您在使用任何命令前已经了解其潜在影响。

## 规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

## 背景理论

回拨执行在这中命令：

1. PC用户(客户端)连接到Cisco接入服务器。
2. 回叫过程在点对点协议(PPP)链路控制协议(LCP)相位协商。
3. PPP认证进行。
4. Cisco IOS软件验证此用户或线路的回拨规则并且断开回拨的呼叫方。
5. Cisco接入服务器拨通客户端。

有MSCB的四种类型：

1. 没有回拨。
2. 用户指定回叫编号。
3. 服务器指定的(预先配置的)回拨号码。
4. 预先配置的回拨号码列表。

默认配置是没有回拨(选项1)。选项2或3可以配置：

- 本地(如果没有使用AAA服务器)。
- 在TACACS+或RADIUS用户配置文件(如果使用AAA)。

如果选项2配置，提示用户输入他的回拨号码。如果选项3配置，提示符只提供一选择，是管理员定义的编号。

思科只实现MSCB而不是回拨客户端功能的回拨服务器功能。这意味着Cisco路由器可以仅使用作为MSCB服务器和不作为MSCB客户端。另外，在客户端要求验证将执行的MSCB Cisco实施。

## 配置

本部分提供有关如何配置本文档所述功能的信息。

## 配置汇总

要启用MSCB，您必须启用**ppp callback accept**命令在接收接口下(例如，异步组)。另外，因为验证要求，您必须特权密码认证协议(PAP)或质询握手验证协议(CHAP)验证：

```
ppp authentication chap pap
```

两聊天脚本自动地创建。这些是**摘机**和**回拨**聊天脚本：

```
ppp authentication chap pap
```

聊天脚本自动地也应用到线路在使用中：

```
ppp authentication chap pap
```

用户必须**授权**呼叫回到。您能本地配置此在NAS或在外部AAA服务器(RADIUS或TACACS+)，根据用户名和密码信息存储的地方。

这是呼叫回到在5551212的用户的一个本地配置：

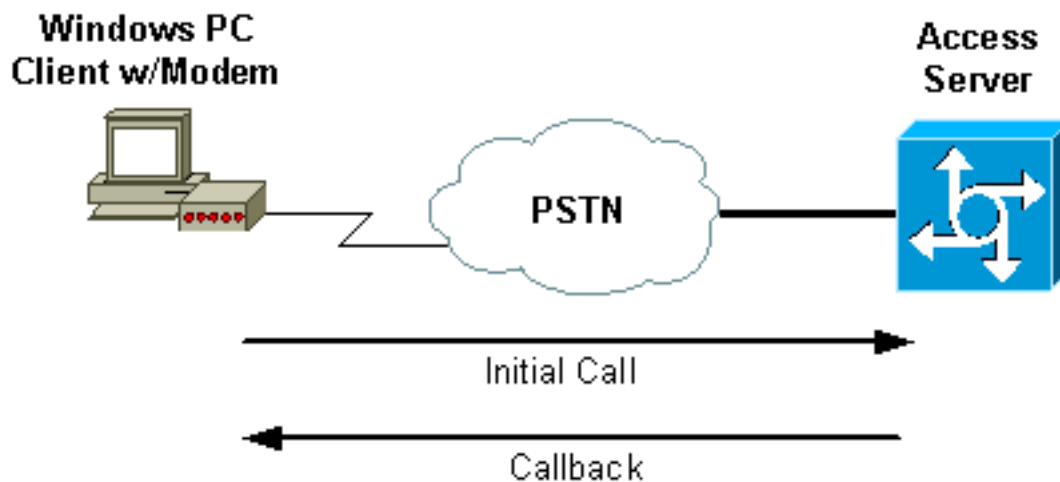
```
ppp authentication chap pap
```

此本地配置是可适用的对允许指定他们自己的回拨号码的用户：

```
ppp authentication chap pap
```

## 网络图

本文档使用以下网络设置：



## 配置

本文档使用以下配置：

- isdn2-2 (AS5200路由器)

isdn2-2 (AS5200路由器)
ppp authentication chap pap

## Windows 客户端配置

### Windows 95 及 98 客户端配置

对于Windows 95及98 PCs，没有回拨的特殊客户端配置。接入服务器处理连接的回叫功能。Windows 95或98 PC显示“等待的回拨”消息表明回拨进展中。

### Windows NT 及 2000 客户端配置

配置这些平台请求回拨。完成这些步骤配置他们：

1. 选择**Start > Programs > Accessories > 通信>网络和拨号连接**。
2. 从菜单选择**先进>拨号首选**。
3. 如**图1所显示**，点击**Callback选项**访问回叫功能菜单。
4. 配置您的回叫选项当必要时：为了不使用回叫功能，请点击**No Callback按钮**。将被提示该做什么，当服务器提示回拨时，请单击**要求我在正在拨号期间，当服务器提示按钮时**。自动地接受回拨提供，**总是**请单击**呼叫我回到在编号在按钮之下**，并且选择设备从列表使用。要更换回拨电话号码，请选择设备并且点击**编辑按钮**。如图1所显示，输入编号在**电话号码字段中**，然后点击OK键在Call Me Back At对话框内。
5. 点击**电话号码字段中**，并且输入在Call Me Back At对话框的编号(显示在**图1**)上。完成后，单击**确定**。
6. 当你完成的时候，请点击OK键在拨号首选对话框内。**图1 -访问回叫功能**

## Dial-up Preferences



Autodial    Callback

When you dial into a server, it may offer to call you back to reduce your phone charges. Specify whether you want callback. (Callback is not supported for virtual private network (VPN) connections.)

- No callback
- Ask me during dialing when the server offers
- Always call me back at the number(s) below:

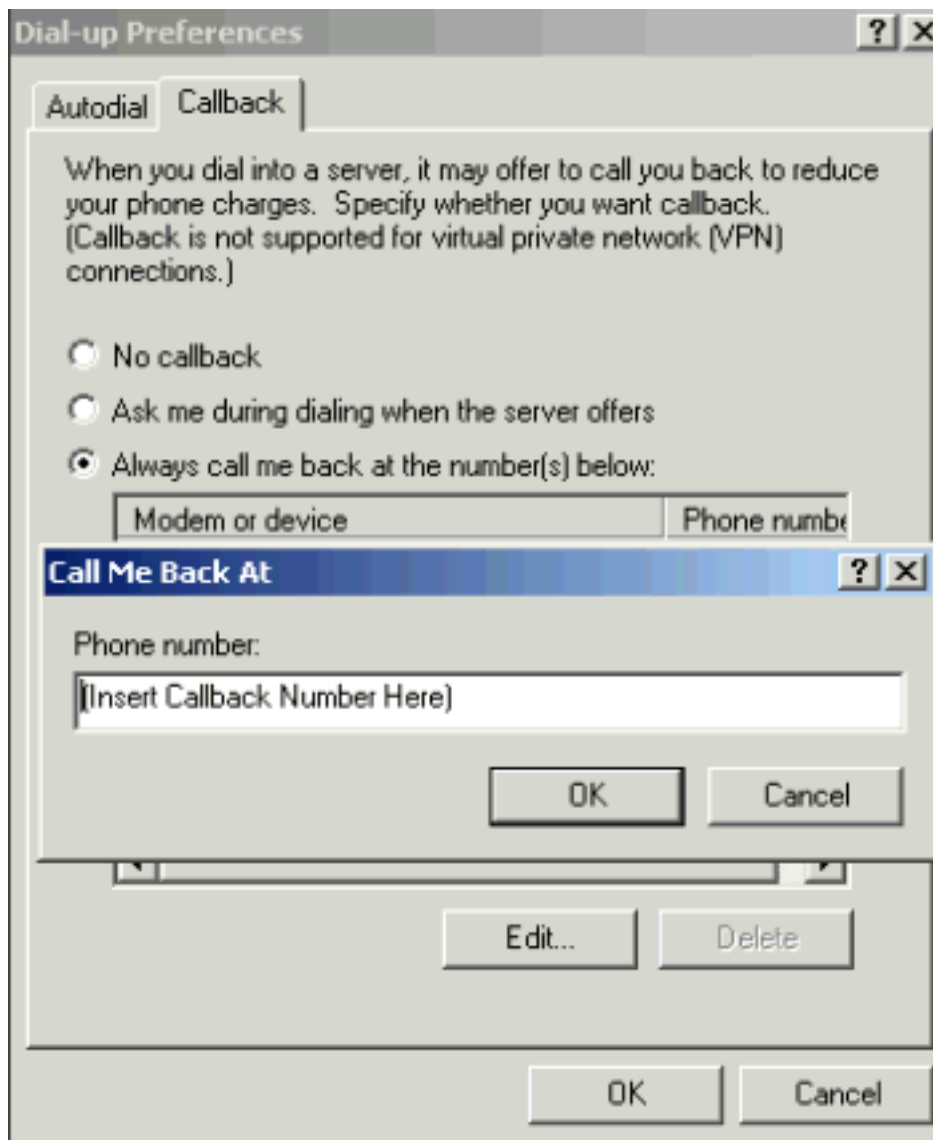
Modem or device	Phone number

Edit...

Delete

OK

Cancel



## 验证

本部分所提供的信息可用于确认您的配置是否正常工作。

[命令输出解释程序工具](#) ( [仅限注册用户](#) ) 支持某些 **show** 命令，使用此工具可以查看对 **show** 命令输出的分析。

- **show isdn active** —显示关于当前流入和流出的ISDN呼叫的信息。请使用此命令验证回拨是否顺利地完成。如果回拨是成功的，**show isdn active**显示呼叫如流出的在回拨服务器。
- **show users** —显示关于有效线路的信息在路由器。如果Cisco IOS软件的版本支持，您还可以使用 **show caller** 命令。
- **show dialer** —显示为按需拨号路由(DDR)配置的接口的一般诊断信息。

## 故障排除

本部分提供的信息可用于对配置进行故障排除。

### [故障排除命令](#)

**注意：** 在发出 `debug` 命令之前，请参阅[有关 Debug 命令的重要信息](#)。

关于调试指令的更多信息，请参阅[Cisco IOS版本12.0 Debug命令参考资料](#)。

- `debug aaa authentication` —显示关于AAA认证的信息。
- `debug aaa authorization` —显示关于AAA授权的信息。
- 当路由器使用一个调制解调器和一个对话脚本呼叫在终端线路时的上一步`debug callback` —显示回拨事件。
- `debug modem` —使您观察在接入服务器的调制解调器线路活动。
- `debug ppp [数据包|协商|错误|验证]` —显示关于流量的信息并且在实现PPP的互联网络里交换。  
*数据包*—显示发送和接收的PPP数据包。（此命令显示低级数据包转储信息。）当PPP选项协商时，*协商*—显示在PPP启动期间传送的PPP数据包。*错误*—显示协议错误和错误统计信息关联与PPP连接协商和操作。*验证*—显示认证协议消息，包括CHAP和PAP交换。
- `debug chat` —显示发生在接入服务器和其内部调制解调器之间的握手，当调制解调器被指示拨号时。聊天脚本是定义了数据终端设备(DTE)和数据通信设备(DCE)设备之间的握手的一组期望发送的字符串对。
- `debug isdn q931` —显示ISDN Q.931 (D信道)呼叫建立及拆线消息和调试。在此方案中，调制解调器呼叫被传送作为在公共交换电话网(PSTN)的一项语音承载服务。
- `debug modem csm` —使您排除故障在路由器的呼叫交换模块(CSM)问题用内部数字调制解调器。使用该指令，您能跟踪呼入和呼出的呼叫交换排序的完成情况。

```
isdn2-2#show debug
```

```
General OS:
Modem control/process activation debugging is on
AAA Authentication debugging is on
AAA Authorization debugging is on
PPP:
PPP protocol negotiation debugging is on
ISDN:
ISDN Q931 packets debugging is on
Chat Scripts:
Chat scripts activity debugging is on
Modem Management:
Modem Management Call Switching Module debugging is on
isdn2-2#
```

```
!--- This is the initial call from the client. *Mar 1 01:24:48.643: ISDN Se0:23: RX <- SETUP pd
= 8 callref = 0x36
*Mar 1 01:24:48.647: Bearer Capability i = 0x9090A2
*Mar 1 01:24:48.651: Channel ID i = 0xA98393
*Mar 1 01:24:48.651: Called Party Number i = 0xC1, '4084327528'
*Mar 1 01:24:48.663: ISDN Se0:23: Incoming call id = 0xA
*Mar 1 01:24:48.671: EVENT_FROM_ISDN::dchan_idb=0x7F8EE0, call_id=0xA, ces=0x1
bchan=0x12, event=0x1, cause=0x0
*Mar 1 01:24:48.671: VDEV_ALLOCATE: slot 0 and port 3 is allocated.
*Mar 1 01:24:48.675: EVENT_FROM_ISDN:(000A): DEV_INCALL at slot 0 and port 3
*Mar 1 01:24:48.675: CSM_PROC_IDLE: CSM_EVENT_ISDN_CALL at slot 0, port 3
*Mar 1 01:24:48.679: Fast Ringing On at modem slot 0, port 3
*Mar 1 01:24:48.699: ISDN Se0:23: TX -> CALL_PROC pd = 8 callref = 0x8036
*Mar 1 01:24:48.703: Channel ID i = 0xA98393
*Mar 1 01:24:48.735: ISDN Se0:23: TX -> ALERTING pd = 8 callref = 0x8036
*Mar 1 01:24:49.699: Fast Ringing Off at modem slot 0, port 3
*Mar 1 01:24:49.699: CSM_PROC_IC1_RING: CSM_EVENT_MODEM_OFFHOOK at slot 0,
port 3
*Mar 1 01:24:49.711: ISDN Se0:23: TX -> CONNECT pd = 8 callref = 0x8036
*Mar 1 01:24:49.783: ISDN Se0:23: RX <- CONNECT_ACK pd = 8 callref = 0x36
*Mar 1 01:24:49.799: EVENT_FROM_ISDN::dchan_idb=0x7F8EE0, call_id=0xA, ces=0x1
```

```
bchan=0x12, event=0x4, cause=0x0
*Mar 1 01:24:49.799: EVENT_FROM_ISDN:(000A): DEV_CONNECTED at slot 0 and
port 3
*Mar 1 01:24:49.803: CSM_PROC_IC4_WAIT_FOR_CARRIER:CSM_EVENT_ISDN_CONNECTED at
slot 0, port 3
!--- Modem has established carrier. *Mar 1 01:25:11.123: TTY4: DSR came up
*Mar 1 01:25:11.127: tty4: Modem: IDLE->READY
*Mar 1 01:25:11.131: TTY4: EXEC creation
*Mar 1 01:25:11.135: AAA/AUTHEN: create_user (0x7B009C) user='' ruser=''
port='tty4' rem_addr='async/4084327528' authen_type=ASCII service=LOGIN priv=1
*Mar 1 01:25:11.139: AAA/AUTHEN/START (3134998138): port='tty4'
list='use-local' action=LOGIN service=LOGIN
*Mar 1 01:25:11.143: AAA/AUTHEN/START (3134998138): found list use-local
*Mar 1 01:25:11.143: AAA/AUTHEN/START (3134998138): Method=LOCAL
!--- Local AAA. *Mar 1 01:25:11.147: AAA/AUTHEN (3134998138): status = GETUSER *Mar 1
01:25:13.951: TTY4: Autoselect(2) sample 7E *Mar 1 01:25:13.955: TTY4: Autoselect(2) sample 7EFF
*Mar 1 01:25:13.959: TTY4: Autoselect(2) sample 7EFF7D *Mar 1 01:25:13.959: TTY4: Autoselect(2)
sample 7EFF7D23 *Mar 1 01:25:13.963: TTY4 Autoselect cmd: ppp negotiate
*Mar 1 01:25:13.967: AAA/AUTHEN/ABORT: (3134998138) because Autoselected.
*Mar 1 01:25:13.967: AAA/AUTHEN: free_user (0x7B009C) user='' ruser=''
port='tty4' rem_addr='async/4084327528' authen_type=ASCII service=LOGIN priv=1
*Mar 1 01:25:13.975: TTY4: EXEC creation
!--- PPP has been autoselected and begins negotiation. %LINK-3-UPDOWN: Interface Async4, changed
state to up *Mar 1 01:25:16.611: As4 PPP: Treating connection as a dedicated line *Mar 1
01:25:16.611: As4 PPP: Phase is ESTABLISHING, Active Open
!--- LCP negotiation begins. *Mar 1 01:25:16.615: As4 LCP: O CONFREQ [Closed] id 3 len 25 *Mar 1
01:25:16.619: As4 LCP: ACCM 0x000A0000 (0x0206000A0000) *Mar 1 01:25:16.623: As4 LCP: AuthProto
CHAP (0x0305C22305) *Mar 1 01:25:16.623: As4 LCP: MagicNumber 0x608D04A3 (0x0506608D04A3) *Mar 1
01:25:16.627: As4 LCP: PFC (0x0702) *Mar 1 01:25:16.627: As4 LCP: ACFC (0x0802) *Mar 1
01:25:16.751: As4 LCP: I CONFACK [REQsent] id 3 len 25 *Mar 1 01:25:16.755: As4 LCP: ACCM
0x000A0000 (0x0206000A0000) *Mar 1 01:25:16.755: As4 LCP: AuthProto CHAP (0x0305C22305) *Mar 1
01:25:16.759: As4 LCP: MagicNumber 0x608D04A3 (0x0506608D04A3) *Mar 1 01:25:16.763: As4 LCP: PFC
(0x0702) *Mar 1 01:25:16.763: As4 LCP: ACFC (0x0802) *Mar 1 01:25:17.003: As4 LCP: I CONFREQ
[ACKrcvd] id 3 len 23
!--- Incoming CONFREQ. *Mar 1 01:25:17.003: As4 LCP: ACCM 0x000A0000 (0x0206000A0000) *Mar 1
01:25:17.007: As4 LCP: MagicNumber 0x004A4A09 (0x0506004A4A09) *Mar 1 01:25:17.007: As4 LCP: PFC
(0x0702) *Mar 1 01:25:17.011: As4 LCP: ACFC (0x0802) *Mar 1 01:25:17.011: As4 LCP: Callback 6
(0x0D0306)
!--- Peer requests MS Callback (Option 6). !--- A PPP callback request uses Option 0. *Mar 1
01:25:17.015: As4 LCP: O CONFACK [ACKrcvd] id 3 len 23
*Mar 1 01:25:17.015: As4 LCP: ACCM 0x000A0000 (0x0206000A0000)
*Mar 1 01:25:17.019: As4 LCP: MagicNumber 0x004A4A09 (0x0506004A4A09)
*Mar 1 01:25:17.023: As4 LCP: PFC (0x0702)
*Mar 1 01:25:17.023: As4 LCP: ACFC (0x0802)
*Mar 1 01:25:17.023: As4 LCP: Callback 6 (0x0D0306)
!--- NAS CONFACKS all LCP parameters. !--- If the NAS refuses Callback (completely or just MS
Callback), LCP may fail. *Mar 1 01:25:17.027: As4 LCP: State is Open !--- Authentication begins.
*Mar 1 01:25:20.095: As4 PPP: Phase is AUTHENTICATING, by this end *Mar 1 01:25:20.099: As4
CHAP: O CHALLENGE id 4 len 28 from "isdn2-2" *Mar 1 01:25:20.187: As4 CHAP: I RESPONSE id 4 len
26 from "callmeback" *Mar 1 01:25:20.191: AAA/AUTHEN: create_user (0x7ADEAC) user='callmeback'
ruser='' port='Async4' rem_addr='async/4084327528' authen_type=CHAP service=PPP priv=1 *Mar 1
01:25:20.195: AAA/AUTHEN/START (44582883): port='Async4' list='' action=LOGIN service=PPP *Mar 1
01:25:20.199: AAA/AUTHEN/START (44582883): using "default" list *Mar 1 01:25:20.199:
AAA/AUTHEN/START (44582883): Method=LOCAL !--- Authentication passes. *Mar 1 01:25:20.203:
AAA/AUTHEN (44582883): status = PASS
!--- Check authorization for LCP. !--- With local AAA, this should pass. !--- For server-based
AAA, this must be explicitly configured on the server. *Mar 1 01:25:20.207: AAA/AUTHOR/LCP As4:
Authorize LCP *Mar 1 01:25:20.207: AAA/AUTHOR/LCP: Async4: (3405067782): user='callmeback' *Mar
1 01:25:20.211: AAA/AUTHOR/LCP: Async4: (3405067782): send AV service=ppp *Mar 1 01:25:20.211:
AAA/AUTHOR/LCP: Async4: (3405067782): send AV protocol=lcp *Mar 1 01:25:20.215: AAA/AUTHOR/LCP:
Async4 (3405067782): Method=LOCAL *Mar 1 01:25:20.219: AAA/AUTHOR (3405067782): Post
authorization status = PASS_ADD *Mar 1 01:25:20.223: AAA/AUTHOR/LCP As4: Processing AV
service=ppp *Mar 1 01:25:20.223: AAA/AUTHOR/LCP As4: Processing AV protocol=lcp *Mar 1
01:25:20.227: AAA/AUTHOR/LCP As4: Processing AV service=ppp *Mar 1 01:25:20.227: AAA/AUTHOR/LCP
```



As4: Processing AV protocol=lcp *!--- Callback-dialstring is null, so user is allowed to specify  
!--- their own callback number.* \*Mar 1 01:25:20.227: AAA/AUTHOR/LCP As4: **Processing AV callback-  
dialstring=**  
*!--- Authentication ACK is returned to client.* \*Mar 1 01:25:20.235: As4 **CHAP: O SUCCESS** id 4 len  
4  
*!--- Callback negotiation proceeds. Because callback-dialstring !--- is null, MCB debug says  
"Callback Number - Client ANY".* \*Mar 1 01:25:20.239: As4 **MCB: User callmeback Callback Number -  
Client ANY**  
*!--- The callback number of the client is requested. Client receives a dialog !--- box that  
prompts the user to type in the callback number. !--- Request is sent every two seconds. If the  
user is slow to type a response, !--- the call remains in this phase for a long time.* \*Mar 1  
01:25:20.243: Async4 PPP: O MCB Request(1) id 20 len 9 \*Mar 1 01:25:20.243: Async4 MCB: O 1 14 0  
9 2 5 0 1 0 \*Mar 1 01:25:20.247: As4 MCB: **O Request Id 20 Callback Type Client-Num delay 0**  
%LINEPROTO-5-UPDOWN: Line protocol on Interface Async4, changed state to up  
\*Mar 1 01:25:22.459: As4 MCB: **Timeout in state WAIT\_RESPONSE**  
\*Mar 1 01:25:22.463: Async4 PPP: O MCB Request(1) id 21 len 9  
\*Mar 1 01:25:22.463: Async4 MCB: O 1 15 0 9 2 5 0 1 0  
\*Mar 1 01:25:22.467: As4 MCB: **O Request Id 21 Callback Type Client-Num delay 0**  
\*Mar 1 01:25:24.499: As4 MCB: Timeout in state WAIT\_RESPONSE  
\*Mar 1 01:25:24.503: Async4 PPP: O MCB Request(1) id 22 len 9  
\*Mar 1 01:25:24.503: Async4 MCB: O 1 16 0 9 2 5 0 1 0  
\*Mar 1 01:25:24.507: As4 MCB: O Request Id 22 Callback Type Client-Num delay 0  
\*Mar 1 01:25:26.543: As4 MCB: Timeout in state WAIT\_RESPONSE  
\*Mar 1 01:25:26.547: Async4 PPP: O MCB Request(1) id 23 len 9  
\*Mar 1 01:25:26.547: Async4 MCB: O 1 17 0 9 2 5 0 1 0  
\*Mar 1 01:25:26.551: As4 MCB: O Request Id 23 Callback Type Client-Num delay 0  
\*Mar 1 01:25:28.583: As4 MCB: Timeout in state WAIT\_RESPONSE  
\*Mar 1 01:25:28.587: Async4 PPP: O MCB Request(1) id 24 len 9  
\*Mar 1 01:25:28.587: Async4 MCB: O 1 18 0 9 2 5 0 1 0  
\*Mar 1 01:25:28.591: As4 MCB: O Request Id 24 Callback Type Client-Num delay 0  
*!--- Client returned the callback number. Notice that the response !--- is for the initial  
request id 20.* \*Mar 1 01:25:29.763: Async4 PPP: **I MCB Response(2) id 20** len 17  
\*Mar 1 01:25:29.767: Async4 MCB: I 2 14 0 11 2 D F 1 35 32 37 2D 39 36 35 31 0  
\*Mar 1 01:25:29.767: As4 MCB: Received response  
*!--- Response is ignored because the id is 20. There have !--- been a few timeouts and id 24  
(the last one sent) is expected.* \*Mar 1 01:25:29.771: As4 MCB: **Resp ignored. ID Expected 24, got  
id 20**  
\*Mar 1 01:25:30.623: As4 MCB: Timeout in state WAIT\_RESPONSE  
*!--- Send out new request (id 25).* \*Mar 1 01:25:30.627: Async4 PPP: O MCB Request(1) id 25 len 9  
\*Mar 1 01:25:30.627: Async4 MCB: O 1 19 0 9 2 5 0 1 0 \*Mar 1 01:25:30.631: As4 MCB: **O Request Id  
25 Callback Type Client-Num delay 0**  
*!--- Client has cached user response, and so the callback number is !--- returned right away.*  
\*Mar 1 01:25:30.715: Async4 PPP: **I MCB Response(2) id 25** len 17  
\*Mar 1 01:25:30.719: Async4 MCB: I 2 19 0 11 2 D F 1 35 32 37  
2D 39 36 35 31 0  
\*Mar 1 01:25:30.723: As4 MCB: Received response  
*!--- Received client callback number is 527-9651.* \*Mar 1 01:25:30.723: As4 MCB: **Response CBK-  
Client-Num 2 13 15, addr  
1-527-9651**  
*!--- Callback number acknowledged.* \*Mar 1 01:25:30.727: Async4 PPP: **O MCB Ack(3) id 26** len 17  
\*Mar 1 01:25:30.731: Async4 MCB: O 3 1A 0 11 2 D F 1 35 32 37  
2D 39 36 35 31 0  
\*Mar 1 01:25:30.731: As4 MCB: **O Ack Id 26 Callback Type Client-Num delay 15**  
\*Mar 1 01:25:30.735: As4 MCB: **Negotiated MCB with peer**  
*!--- Client hangs up and begins to wait for callback. !--- This is indicated by an Incoming (I)  
TERMREQ.* \*Mar 1 01:25:30.815: As4 LCP: **I TERMREQ** [Open] id 5 len 4  
\*Mar 1 01:25:30.815: As4 LCP: O TERMACK [Open] id 5 len 4  
\*Mar 1 01:25:30.819: As4 MCB: Peer terminating the link  
\*Mar 1 01:25:30.819: As4 PPP: Phase is TERMINATING  
\*Mar 1 01:25:30.819: As4 MCB: Link terminated by peer, Callback Needed  
*!--- Initiate callback to client; sleeps for ten seconds.* \*Mar 1 01:25:30.823: As4 MCB: **Initiate  
Callback for callmeback at 527-9651**  
using Async  
\*Mar 1 01:25:30.827: As4 MCB: Async-callback in progress

*!--- Drop modem and B-channel for initial call from client.* \*Mar 1 01:25:31.499:  
CSM\_PROC\_IC5\_OC6\_CONNECTED: CSM\_EVENT\_MODEM\_ONHOOK at slot 0, port 3 \*Mar 1 01:25:31.503:  
VDEV\_DEALLOCATE: slot 0 and port 3 is deallocated \*Mar 1 01:25:31.503: ISDN Se0:23: Event:  
Hangup call to call id 0xA %ISDN-6-DISCONNECT: **Interface Serial0:18 disconnected from unknown ,  
call  
lasted 41 seconds**

*!--- Call is completely disconnected.* \*Mar 1 01:25:31.523: ISDN Se0:23: TX -> DISCONNECT pd = 8  
callref = 0x8036 \*Mar 1 01:25:31.523: Cause i = 0x8090 - Normal call clearing \*Mar 1  
01:25:31.583: ISDN Se0:23: RX <- RELEASE pd = 8 callref = 0x36 \*Mar 1 01:25:31.655: ISDN Se0:23:  
TX -> RELEASE\_COMP pd = 8 callref = 0x8036 %LINEPROTO-5-UPDOWN: Line protocol on Interface  
Async4, changed state to down \*Mar 1 01:25:31.851: TTY4: Async Int reset: Dropping DTR \*Mar 1  
01:25:33.695: As4 LCP: TIMEOUT: Time = 0x4E521C State = TERMSent \*Mar 1 01:25:33.699: As4 LCP:  
State is Closed \*Mar 1 01:25:33.699: As4 PPP: Phase is DOWN \*Mar 1 01:25:33.703: As4 PPP: Phase  
is ESTABLISHING, Passive Open \*Mar 1 01:25:33.707: As4 LCP: State is Listen %LINK-5-CHANGED:  
Interface Async4, changed state to reset \*Mar 1 01:25:33.879: As4 LCP: State is Closed \*Mar 1  
01:25:33.879: As4 PPP: Phase is DOWN \*Mar 1 01:25:33.883: As4 IPCP: Remove route to 172.16.25.61  
%LINK-3-UPDOWN: Interface Async4, changed state to down \*Mar 1 01:25:38.887: As4 LCP: State is  
Closed \*Mar 1 01:25:38.887: As4 PPP: Phase is DOWN *!--- Cleanup from previous call is finished.*  
\*Mar 1 01:25:40.863: CHAT4: **Matched chat script offhook to string offhook**  
\*Mar 1 01:25:40.867: CHAT4: Asserting DTR

*!--- Modem goes offhook.* \*Mar 1 01:25:40.867: CHAT4: Chat script offhook started \*Mar 1  
01:25:40.871: CHAT4: Sending string: ATH1 \*Mar 1 01:25:40.871: CHAT4: Expecting string: OK \*Mar  
1 01:25:40.911: CSM\_PROC\_IDLE: CSM\_EVENT\_MODEM\_OFFHOOK at slot 0, port 3 \*Mar 1 01:25:40.963:  
CHAT4: Completed match for expect: OK \*Mar 1 01:25:40.967: CHAT4: **Chat script offhook finished,  
status = Success**

*!--- Chat script "offhook" was successfully completed.* \*Mar 1 01:25:40.967: CHAT4: **Matched chat  
script callback to string callback**

*!--- Chat script "callback" is initiated.* \*Mar 1 01:25:40.971: CHAT4: Asserting DTR \*Mar 1  
01:25:40.975: CHAT4: Chat script callback started *!--- Reset modem to known state.* \*Mar 1  
01:25:40.975: CHAT4: Sending string: ATZ \*Mar 1 01:25:40.979: CSM\_PROC\_OC1\_REQUEST\_DIGIT:  
CSM\_EVENT\_MODEM\_ONHOOK at slot 0, port 3 \*Mar 1 01:25:40.983: VDEV\_DEALLOCATE: slot 0 and port 3  
is deallocated \*Mar 1 01:25:40.979: CHAT4: Expecting string: OK \*Mar 1 01:25:42.123: CHAT4:  
Completed match for expect: OK *!--- Dial the callback number of the client.* \*Mar 1 01:25:42.127:  
CHAT4: Sending string: **ATDT \T<527-9651>**  
\*Mar 1 01:25:42.131: CHAT4: Expecting string: CONNECT  
\*Mar 1 01:25:43.199: CSM\_PROC\_IDLE: CSM\_EVENT\_MODEM\_OFFHOOK at slot 0, port 3

*!--- Modem/ISDN needs to collect the digits from IOS before it makes the call.* \*Mar 1  
01:25:43.327: DSX1\_MAIL\_FROM\_NEAT: DC\_READY\_RSP: mid = 5, slot = 2, unit = 1 \*Mar 1  
01:25:43.331: CSM\_PROC\_OC1\_REQUEST\_DIGIT:  
CSM\_EVENT\_DIGIT\_COLLECT\_READY at slot 0, port 3  
\*Mar 1 01:25:43.331: CSM\_PROC\_OC1\_REQUEST\_DIGIT:  
CSM\_EVENT\_ADDR\_INFO\_COLLECTED at slot 0, port 3  
\*Mar 1 01:25:44.327: DSX1\_MAIL\_FROM\_NEAT: DC\_FIRST\_DIGIT\_RSP: mid = 5,  
slot = 2, unit = 1  
\*Mar 1 01:25:44.331: CSM\_PROC\_OC2\_COLLECT\_1ST\_DIGIT:  
CSM\_EVENT\_GET\_1ST\_DIGIT at slot 0, port 3  
\*Mar 1 01:25:47.331: DSX1\_MAIL\_FROM\_NEAT: DC\_ALL\_DIGIT\_RSP: mid = 5, slot  
= 2, unit = 1  
\*Mar 1 01:25:47.331: CSM\_PROC\_OC3\_COLLECT\_ALL\_DIGIT:  
CSM\_EVENT\_GET\_ALL\_DIGITS at slot 0, port 3  
\*Mar 1 01:25:47.335: CSM\_PROC\_OC3\_COLLECT\_ALL\_DIGIT: **called party num:  
(5279651) at slot 0, port 3**

*!--- Digits have been collected; ISDN call is made.* \*Mar 1 01:25:47.339: process\_pri\_call making  
a voice\_call. \*Mar 1 01:25:47.351: ISDN Se0:23: TX -> SETUP pd = 8 callref = 0x0005 \*Mar 1  
01:25:47.355: **Bearer Capability i = 0x8090A2**

*!--- Bearer cap indicates call is an analog call.* \*Mar 1 01:25:47.355: Channel ID i = 0xE1808397  
\*Mar 1 01:25:47.359: **Called Party Number i = 0xA1, '5279651'**  
\*Mar 1 01:25:47.431: ISDN Se0:23: RX <- CALL\_PROC pd = 8 callref = 0x8005  
\*Mar 1 01:25:47.435: Channel ID i = 0xA98397  
\*Mar 1 01:25:47.451: EVENT\_FROM\_ISDN: dchan\_idb=0x7F8EE0, call\_id=0xA005,  
ces=0x1 bchan=0x16, event=0x3, cause=0x0  
\*Mar 1 01:25:47.451: EVENT\_FROM\_ISDN:(A005): DEV\_CALL\_PROC at slot 0 and port 3  
\*Mar 1 01:25:47.455: CSM\_PROC\_OC4\_DIALING:  
CSM\_EVENT\_ISDN\_BCHAN\_ASSIGNED at slot 0, port 3

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*Mar 1 01:25:48.147: ISDN Se0:23: RX <- ALERTING pd = 8 callref = 0x8005
*Mar 1 01:25:48.151: Progress Ind i = 0x8388 - In-band info or
appropriate now available
*Mar 1 01:25:50.835: ISDN Se0:23: RX <- CONNECT pd = 8 callref = 0x8005
*Mar 1 01:25:50.851: EVENT_FROM_ISDN::dchan_idb=0x7F8EE0, call_id=0xA005,
ces=0x1 bchan=0x16, event=0x4, cause=0x
*Mar 1 01:25:50.855: EVENT_FROM_ISDN:(A005): DEV_CONNECTED at slot 0 and port 3
*Mar 1 01:25:50.859: CSM_PROC_OC5_WAIT_FOR_CARRIER:
CSM_EVENT_ISDN_CONNECTED at slot 0, port 3
!--- ISDN call is connected. *Mar 1 01:25:50.867: ISDN Se0:23: TX -> CONNECT_ACK pd = 8
callref = 0x0005
*Mar 1 01:25:53.735: AAA/AUTHEN: free_user (0x7ADEAC) user='callmeback'
ruser='' port='Async4' rem_addr='async/4084327528' authen_type=CHAP
service=PPP priv=1
!--- Modems have established carrier. *Mar 1 01:26:13.487: CHAT4: Completed match for expect:
CONNECT *Mar 1 01:26:13.491: CHAT4: Sending string: \c *Mar 1 01:26:13.491: CHAT4: Chat script
callback finished, status = Success *Mar 1 01:26:15.415: TTY4: DSR came up
*Mar 1 01:26:15.419: tty4: Modem: IDLE->READY
*Mar 1 01:26:15.439: TTY4: EXEC creation
*Mar 1 01:26:15.443: AAA/AUTHEN: create_user (0x7ADEA4) user='' ruser=''
port='tty4' rem_addr='async/5279651' authen_type=ASCII service=LOGIN priv=1
*Mar 1 01:26:15.447: AAA/AUTHEN/START (2043462211): port='tty4'
list='use-local' action=LOGIN service=LOGIN
*Mar 1 01:26:15.451: AAA/AUTHEN/START (2043462211): found list use-local
*Mar 1 01:26:15.451: AAA/AUTHEN/START (2043462211): Method=LOCAL
*Mar 1 01:26:15.455: AAA/AUTHEN (2043462211): status = GETUSER
!--- PPP negotiation begins again. *Mar 1 01:26:16.631: TTY4: Autoselect(2) sample 7E %LINK-
3-UPDOWN: Interface Async4, changed state to up *Mar 1 01:26:18.663: As4 PPP: Treating
connection as a dedicated line *Mar 1 01:26:18.663: As4 PPP: Phase is ESTABLISHING, Active Open
*Mar 1 01:26:18.667: As4 LCP: O CONFREQ [Closed] id 5 len 25 *Mar 1 01:26:18.671: As4 LCP: ACCM
0x000A0000 (0x0206000A0000) *Mar 1 01:26:18.675: As4 LCP: AuthProto CHAP (0x0305C22305) *Mar 1
01:26:18.675: As4 LCP: MagicNumber 0x608DF70C (0x0506608DF70C) *Mar 1 01:26:18.679: As4 LCP: PFC
(0x0702) *Mar 1 01:26:18.679: As4 LCP: ACFC (0x0802) *Mar 1 01:26:18.779: As4 LCP: I CONFACK
[REQsent] id 5 len 25 *Mar 1 01:26:18.783: As4 LCP: ACCM 0x000A0000 (0x0206000A0000) *Mar 1
01:26:18.787: As4 LCP: AuthProto CHAP (0x0305C22305) *Mar 1 01:26:18.787: As4 LCP: MagicNumber
0x608DF70C (0x0506608DF70C) *Mar 1 01:26:18.791: As4 LCP: PFC (0x0702) *Mar 1 01:26:18.791: As4
LCP: ACFC (0x0802) *Mar 1 01:26:19.707: As4 LCP: I CONFREQ [ACKrcvd] id 3 len 20 *Mar 1
01:26:19.711: As4 LCP: ACCM 0x000A0000 (0x0206000A0000) *Mar 1 01:26:19.711: As4 LCP:
MagicNumber 0x004B3EF5 (0x0506004B3EF5) *Mar 1 01:26:19.715: As4 LCP: PFC (0x0702) *Mar 1
01:26:19.715: As4 LCP: ACFC (0x0802) *Mar 1 01:26:19.719: As4 LCP: O CONFACK [ACKrcvd] id 3 len
20 *Mar 1 01:26:19.723: As4 LCP: ACCM 0x000A0000 (0x0206000A0000) *Mar 1 01:26:19.723: As4 LCP:
MagicNumber 0x004B3EF5 (0x0506004B3EF5) *Mar 1 01:26:19.727: As4 LCP: PFC (0x0702) *Mar 1
01:26:19.727: As4 LCP: ACFC (0x0802) *Mar 1 01:26:19.731: As4 LCP: State is Open !---
Reauthenticate the user. *Mar 1 01:26:22.779: As4 PPP: Phase is AUTHENTICATING, by this end
*Mar 1 01:26:22.783: As4 CHAP: O CHALLENGE id 6 len 28 from "isdn2-2"
*Mar 1 01:26:22.887: As4 CHAP: I RESPONSE id 6 len 26 from "callmeback"
*Mar 1 01:26:22.895: AAA/AUTHEN: create_user (0x8F1DAC) user='callmeback'
ruser='' port='Async4' rem_addr='async/5279651' authen_type=CHAP
service=PPP priv=1
*Mar 1 01:26:22.899: AAA/AUTHEN/START (2174906802): port='Async4' list=''
action=LOGIN service=PPP
*Mar 1 01:26:22.899: AAA/AUTHEN/START (2174906802): using "default" list
*Mar 1 01:26:22.903: AAA/AUTHEN/START (2174906802): Method=LOCAL
*Mar 1 01:26:22.903: AAA/AUTHEN (2174906802): status = PASS
*Mar 1 01:26:22.907: AAA/AUTHOR/LCP As4: Authorize LCP
*Mar 1 01:26:22.911: AAA/AUTHOR/LCP: Async4: (3262137315): user='callmeback'
*Mar 1 01:26:22.911: AAA/AUTHOR/LCP: Async4: (3262137315): send AV service=ppp
*Mar 1 01:26:22.915: AAA/AUTHOR/LCP: Async4: (3262137315): send AV
protocol=lcp
*Mar 1 01:26:22.915: AAA/AUTHOR/LCP: Async4 (3262137315): Method=LOCAL
*Mar 1 01:26:22.923: AAA/AUTHOR (3262137315):
Post authorization status =PASS_ADD
*Mar 1 01:26:22.927: AAA/AUTHOR/LCP As4: Processing AV service=ppp
*Mar 1 01:26:22.927: AAA/AUTHOR/LCP As4: Processing AV protocol=lcp
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*Mar 1 01:26:22.931: AAA/AUTHOR/LCP As4: Processing AV service=ppp
*Mar 1 01:26:22.931: AAA/AUTHOR/LCP As4: Processing AV protocol=lcpl
*Mar 1 01:26:22.931: AAA/AUTHOR/LCP As4: Processing AV callback-dialstring=
*Mar 1 01:26:22.939: As4 CHAP: O SUCCESS id 6 len 4
*Mar 1 01:26:22.943: As4 PPP: Phase is UP
*Mar 1 01:26:22.947: AAA/AUTHOR/FSM As4: (0): Can we start IPCP?
*Mar 1 01:26:22.947: AAA/AUTHOR/FSM: Async4: (345798021): user='callmeback'
*Mar 1 01:26:22.951: AAA/AUTHOR/FSM: Async4: (345798021): send AV service=ppp
*Mar 1 01:26:22.951: AAA/AUTHOR/FSM: Async4: (345798021): send AV protocol=ip
*Mar 1 01:26:22.955: AAA/AUTHOR/FSM: Async4 (345798021): Method=LOCAL
*Mar 1 01:26:22.955: AAA/AUTHOR (345798021):
Post authorization status = PASS_REPL
!--- Negotiate IPCP. *Mar 1 01:26:22.959: AAA/AUTHOR/FSM As4: We can start IPCP *Mar 1
01:26:22.963: As4 IPCP: O CONFREQ [Closed] id 1 len 16 *Mar 1 01:26:22.967: As4 IPCP:
CompressType VJ 15 slots (0x0206002D0F00) *Mar 1 01:26:22.967: As4 IPCP: Address 172.16.25.52
(0x0306AC101934) *Mar 1 01:26:23.019: As4 IPCP: I CONFREQ [REQsent] id 1 len 40 *Mar 1
01:26:23.023: As4 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) *Mar 1
01:26:23.027: As4 IPCP: Address 0.0.0.0 (0x030600000000) *Mar 1 01:26:23.027: As4 IPCP:
PrimaryDNS 0.0.0.0 (0x810600000000) *Mar 1 01:26:23.031: As4 IPCP: PrimaryWINS 0.0.0.0
(0x820600000000) *Mar 1 01:26:23.035: As4 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) *Mar 1
01:26:23.035: As4 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) *Mar 1 01:26:23.039:
AAA/AUTHOR/IPCPC As4: Start. Her address 0.0.0.0, we want 0.0.0.0 *Mar 1 01:26:23.039:
AAA/AUTHOR/IPCPC As4: Processing AV service=ppp *Mar 1 01:26:23.043: AAA/AUTHOR/IPCPC As4:
Processing AV protocol=ip *Mar 1 01:26:23.043: AAA/AUTHOR/IPCPC As4: Authorization succeeded *Mar
1 01:26:23.047: AAA/AUTHOR/IPCPC As4: Done. Her address 0.0.0.0, we want 0.0.0.0 *Mar 1
01:26:23.047: As4 IPCP: Using pool 'default' *Mar 1 01:26:23.051: As4 IPCP: Pool returned
172.16.25.60 *Mar 1 01:26:23.051: As4 IPCP: O CONFREQ [REQsent] id 1 len 28 *Mar 1 01:26:23.055:
As4 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) *Mar 1 01:26:23.059: As4 IPCP: PrimaryWINS 0.0.0.0
(0x820600000000) *Mar 1 01:26:23.059: As4 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) *Mar 1
01:26:23.063: As4 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) *Mar 1 01:26:23.067: As4 IPCP: I
CONFACK [REQsent] id 1 len 16 *Mar 1 01:26:23.067: As4 IPCP: CompressType VJ 15 slots
(0x0206002D0F00) *Mar 1 01:26:23.071: As4 IPCP: Address 172.16.25.52 (0x0306AC101934) *Mar 1
01:26:23.139: As4 IPCP: I CONFREQ [ACKrcvd] id 2 len 16 *Mar 1 01:26:23.139: As4 IPCP:
CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) *Mar 1 01:26:23.143: As4 IPCP: Address
0.0.0.0 (0x030600000000) *Mar 1 01:26:23.147: AAA/AUTHOR/IPCPC As4: Start. Her address 0.0.0.0,
we want 172.16.25.60 *Mar 1 01:26:23.147: AAA/AUTHOR/IPCPC As4: Processing AV service=ppp *Mar 1
01:26:23.151: AAA/AUTHOR/IPCPC As4: Processing AV protocol=ip *Mar 1 01:26:23.151:
AAA/AUTHOR/IPCPC As4: Authorization succeeded *Mar 1 01:26:23.151: AAA/AUTHOR/IPCPC As4: Done. Her
address 0.0.0.0, we want 172.16.25.60 *Mar 1 01:26:23.155: As4 IPCP: O CONFNAK [ACKrcvd] id 2
len 10 *Mar 1 01:26:23.159: As4 IPCP: Address 172.16.25.60 (0x0306AC10193C) *Mar 1 01:26:23.255:
As4 IPCP: I CONFREQ [ACKrcvd] id 3 len 16 *Mar 1 01:26:23.259: As4 IPCP: CompressType VJ 15
slots CompressSlotID (0x0206002D0F01) *Mar 1 01:26:23.263: As4 IPCP: Address 172.16.25.60
(0x0306AC10193C) *Mar 1 01:26:23.263: AAA/AUTHOR/IPCPC As4: Start. Her address 172.16.25.60, we
want 172.16.25.60 *Mar 1 01:26:23.267: AAA/AUTHOR/IPCPC As4: Async4: (3819567164): user='callmeback'
*Mar 1 01:26:23.271: AAA/AUTHOR/IPCPC As4: Async4: (3819567164): send AV service=ppp *Mar 1
01:26:23.271: AAA/AUTHOR/IPCPC As4: Async4: (3819567164): send AV protocol=ip *Mar 1 01:26:23.275:
AAA/AUTHOR/IPCPC As4: Async4: (3819567164): send AV addr*172.16.25.60 *Mar 1 01:26:23.275:
AAA/AUTHOR/IPCPC As4: Async4 (3819567164): Method=LOCAL *Mar 1 01:26:23.279: AAA/AUTHOR (3819567164):
Post authorization status = PASS_REPL *Mar 1 01:26:23.283: AAA/AUTHOR/IPCPC As4: Reject
172.16.25.60, using 172.16.25.60 *Mar 1 01:26:23.287: AAA/AUTHOR/IPCPC As4: Processing AV
service=ppp *Mar 1 01:26:23.291: AAA/AUTHOR/IPCPC As4: Processing AV protocol=ip *Mar 1
01:26:23.291: AAA/AUTHOR/IPCPC As4: Processing AV addr*172.16.25.60 *Mar 1 01:26:23.295:
AAA/AUTHOR/IPCPC As4: Authorization succeeded *Mar 1 01:26:23.295: AAA/AUTHOR/IPCPC As4: Done. Her
address 172.16.25.60, we want 172.16.25.60 *Mar 1 01:26:23.299: As4 IPCP: O CONFACK [ACKrcvd] id
3 len 16 *Mar 1 01:26:23.303: As4 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01)
*Mar 1 01:26:23.303: As4 IPCP: Address 172.16.25.60 (0x0306AC10193C) *Mar 1 01:26:23.307: As4
IPCPC: State is Open *Mar 1 01:26:23.323: As4 IPCPC: Install route to 172.16.25.60 %LINEPROTO-
5-UPDOWN: Line protocol on Interface Async4, changed state to up
!--- Client is connected.
```

## 相关信息

- [配置异步回叫](#)

- [PPP Callback Over ISDN](#)
- [配置DDR的PPP回呼](#)
- [用 TACACS+ 配置 PPP 回呼](#)
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