

# Configurando a rechamada MS entre um roteador e um PC Windows

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## [Introdução](#)

A implementação de rechamada do Microsoft não é complacente com [RFC 1570](#) . [Contudo](#), devido à grande participação no mercado do cliente da rede de comunicação dial-up de Microsoft, [Cisco executou o protocolo de controle da rechamada Microsoft \(MSCB\) no Software Release 11.3\(2\)T e Mais Recente de Cisco IOS®](#).

## [Pré-requisitos](#)

### [Requisitos](#)

Antes de você tentar esta configuração, verifique se estes requisitos são atendidos:

- Configurar o servidor do acesso de rede (NAS) para aceitar chamadas analógicas do cliente. A rechamada é uns recursos adicionais do discado do modem. , Verifique conseqüentemente se este aspecto funciona corretamente. Isto pode ajudá-lo a pesquisar defeitos.
- O circuito T1/E1 deve ser capaz da discagem. Contacte sua companhia telefônica (telco) para verificar isto.

## Componentes Utilizados

A informação neste documento é baseada em versões de Cisco IOS Software Release 11.3(2)T e Mais Recente.

Esta encenação foi testada em um PC com rede de comunicação dial-up de Windows.

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se você estiver trabalhando em uma rede ativa, certifique-se de que entende o impacto potencial de qualquer comando antes de utilizá-lo.

## Convenções

Para obter mais informações sobre convenções de documento, consulte as [Convenções de dicas técnicas Cisco](#).

## Material de Suporte

A chamada executa nesta ordem:

1. Um usuário de PC (cliente) conecta ao Cisco access server.
2. O processo de chamada de volta é negociado na fase do protocolo de controle de link (LCP) do Point-to-Point Protocol (PPP).
3. A autenticação de PPP é executada.
4. O Cisco IOS Software valida regras da chamada para este usuário ou linha e desliga o chamador de chamada.
5. O Cisco access server disca o cliente.

Há quatro tipos de MSCB:

1. Nenhuma chamada.
2. Número de chamada específica de usuário.
3. número de chamada de volta (preconfigured) Server-especificado.
4. Lista de número de chamada de volta preconfigured.

A configuração padrão não é nenhuma chamada (opção 1). As opções 2 ou 3 podem ser configuradas:

- Localmente (se nenhum servidor AAA é usado).
- No TACACS+ ou no perfil de usuário radius (se o AAA é usado).

Se a opção 2 é configurada, o usuário está alertado entrar em seu número de chamada de volta. Se o option 3 é configurado, a alerta oferece somente uma escolha, que é o número administrador-definido.

Cisco executa somente a funcionalidade do servidor de chamada de volta do MSCB e não da funcionalidade da chamada de volta ao cliente. Isto significa que um roteador Cisco pode ser usado somente como um servidor MSCB e não como um MSCB cliente. Além, a implementação Cisco do MSCB exige a autenticação ser executada no cliente.

## Configurar

Nesta seção, você encontrará informações para configurar os recursos descritos neste documento.

## Resumo da configuração

Para permitir o MSCB, você deve permitir o **comando ppp callback accept** sob a relação de recepção (por exemplo, grupo assíncrono). Além, porque a autenticação é exigida, você deve permitir o protocolo password authentication (PAP) ou desafiar a autenticação do protocolo de autenticação de cumprimento (RACHADURA):

```
ppp authentication chap pap
```

Dois scripts de bate-papo são criados automaticamente. Estes são o scripts de bate-papo do **fora do gancho** e da **rechamada**:

```
ppp authentication chap pap
```

O scripts de bate-papo é aplicado igualmente automaticamente às linhas no uso:

```
ppp authentication chap pap
```

Um usuário deve **ser autorizado** ser chamado para trás. Você pode configurar este localmente no NAS ou no servidor AAA externo (RAIO ou TACACS+), com base em onde a informação do nome de usuário e senha é armazenada.

Esta é uma configuração local para um usuário que seja chamado para trás em 5551212:

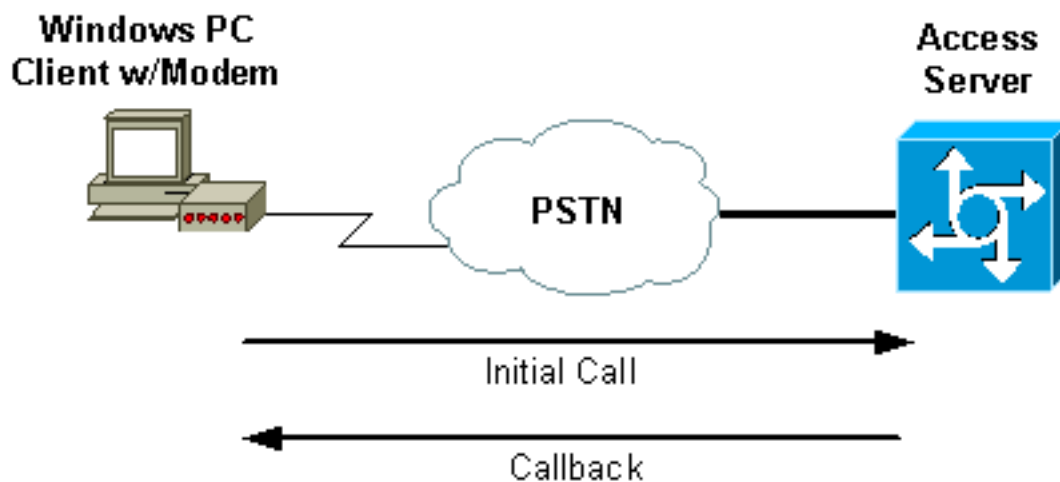
```
ppp authentication chap pap
```

Esta configuração local é aplicável aos usuários são permitidos que especificar seu próprio número de chamada de volta:

```
ppp authentication chap pap
```

## Diagrama de Rede

Este documento utiliza a seguinte configuração de rede:



## Configurações

Este documento utiliza esta configuração:

- isdn2-2 (Roteador AS5200)

<b>isdn2-2 (Roteador AS5200)</b>
<code>ppp authentication chap pap</code>

## Configuração do Window Client

### Configuração do cliente Windows 95 e 98

Para Windows 95 e 98 PC, não há nenhuma configuração para callback especial do lado do cliente. O servidor de acesso trata os recursos de chamada de volta da conexão. Windows 95 ou os 98 PC indicam “uma mensagem da rechamada de espera” para indicar que uma rechamada é em andamento.

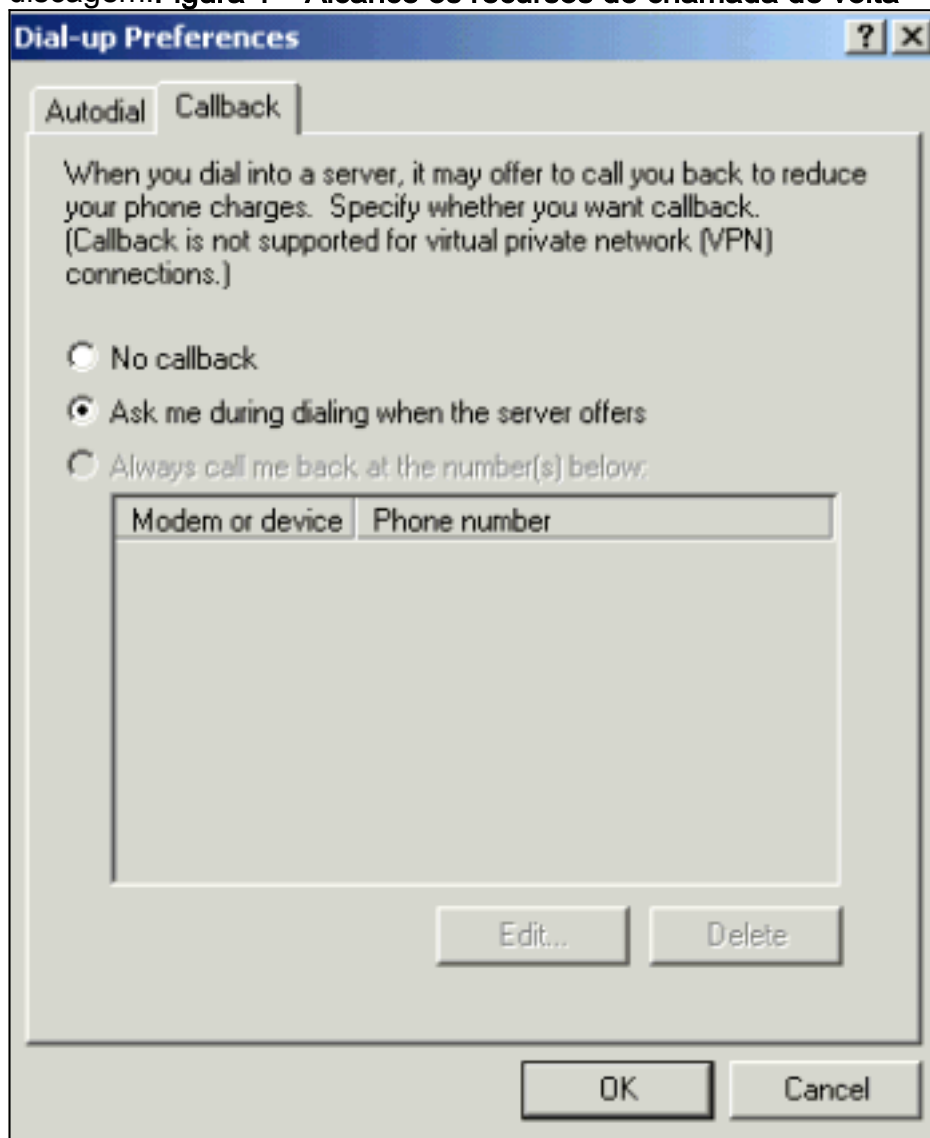
### Configuração de cliente Windows NT e 2000

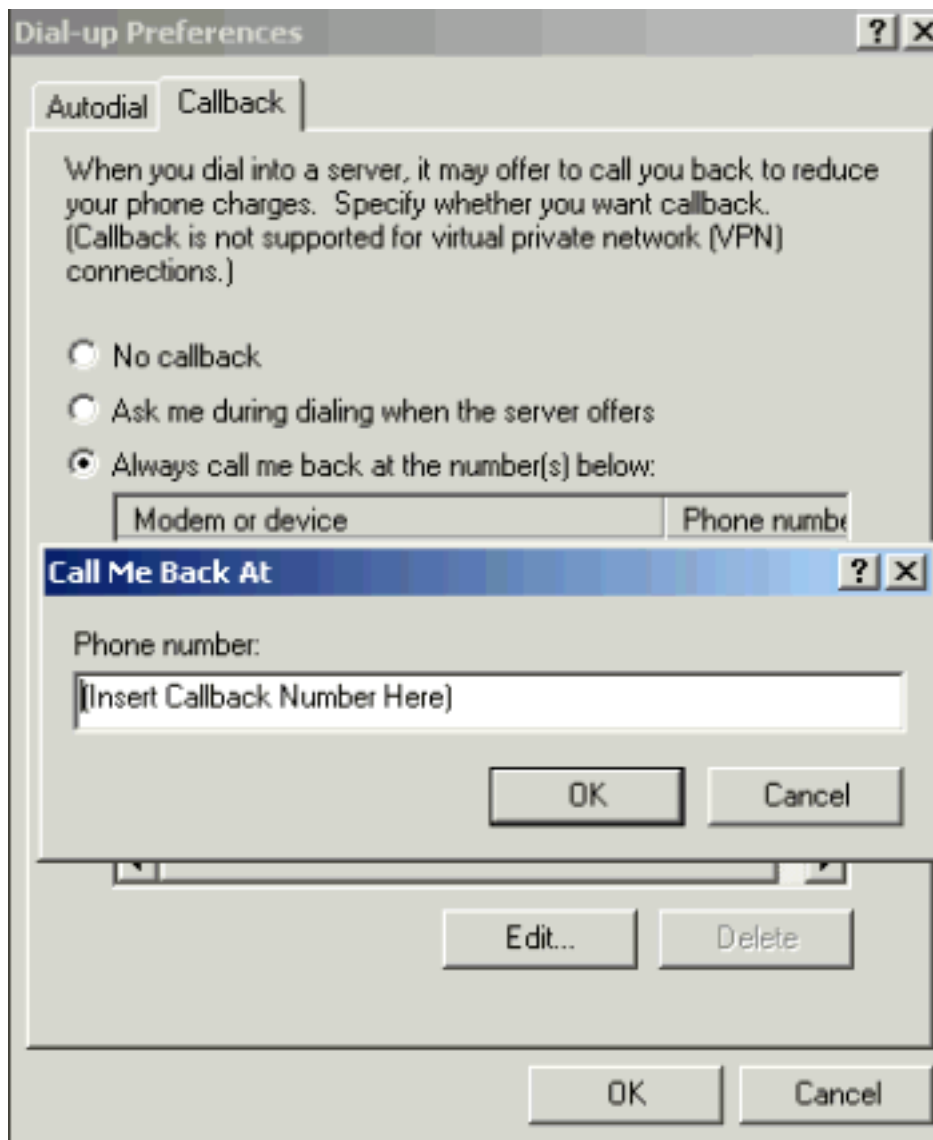
Configurar estas Plataformas para pedir a rechamada. Termine estas etapas para configurar-las:

1. Escolha o **iniciar > programas > acessórios > as comunicações > a rede e as conexões dial-up**.
2. Escolha **avançado > preferências de discagem** do menu.
3. Clique a aba da **rechamada** para alcançar o menu dos recursos de chamada de volta segundo as indicações de [figura 1](#).
4. Configurar suas opções de chamada de volta como necessárias: A fim de não usar a função de rechamada, clique no botão **No Callback (Sem Rechamada)**. Para ser informado sobre o que fazer quando um servidor oferece o retorno de chamada, clique no botão **Ask Me During Dialing When The Server Offers**. Para aceitar automaticamente ofertas da rechamada, clique **sempre a chamada mim para trás no botão abaixo dos números**, e selecione o dispositivo para usar-se da lista. Para mudar o número de telefone da rechamada, selecione o

dispositivo e clique o **botão Edit**. Incorpore o número ao **campo de número de telefone** segundo as indicações de figura 1, e clique então a **APROVAÇÃO** no atendimento mim para trás na caixa de diálogo.

5. Clique o **campo de número de telefone**, e incorpore o número ao atendimento mim para trás na caixa de diálogo (mostrada em [figura 1](#)). Clique a **APROVAÇÃO** quando você é terminado.
6. Quando você é terminado, clique a **APROVAÇÃO** na caixa de diálogo das preferências de discagem. **Figura 1 – Alcance os recursos de chamada de volta**





## Verificar

Esta seção fornece informações que você pode usar para confirmar se sua configuração está funcionando adequadamente.

A [Output Interpreter Tool \(somente clientes registrados\)](#) oferece suporte a determinados comandos show, o que permite exibir uma análise da saída do comando show.

- **mostre o active isdn** — informação dos indicadores sobre o recebimento atual e chamadas ISDN que parte. Use este comando verificar se a rechamada esteve terminada com sucesso. Se a rechamada é bem sucedida, **mostre que active isdn** mostra o atendimento como que parte no servidor de chamada de volta.
- **usuários da mostra** — informação dos indicadores sobre as linhas ativa no roteador. Você pode igualmente usar o **comando show caller** se sua versão de Cisco IOS Software a apoia.
- **discador da mostra** — informação geral de diagnóstico das mostras para as relações configuradas para o Dial-on-Demand Routing (DDR).

## Troubleshooting

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua

configuração.

## Comandos para Troubleshooting

**Note:** Antes de emitir **comandos debug**, consulte [Informações importantes sobre comandos debug](#).

Para obter mais informações sobre dos **comandos debug**, veja a [referência do comando Debug do Cisco IOS Release 12.0](#).

- **debugar a autenticação aaa** — informação dos indicadores na autenticação de AAA.
- **debug aaa authorization** — informação dos indicadores na autorização de AAA.
- **debug callback** — eventos de chamada de volta dos indicadores quando o roteador usar um modem e um a chat script ao retorno de chamada em uma linha terminal.
- **debugar o modem** — permite-o de observar a atividade de linha de modem em um servidor de acesso.
- **debugar ppp [pacote | negociação | erro | autenticação]** — a informação dos indicadores no tráfego e nas trocas em uma rede interna essa executa o PPP.*pacote* — pacotes PPP dos indicadores que estão sendo enviados e recebidos. (Este comando mostra cópias parciais da memória de pacote de nível baixo.)*negociação* — pacotes PPP dos indicadores transmitidos durante a inicialização de PPP, quando as opções de PPP forem negociadas.os erros de protocolo e as estatísticas de erros das *exibições de erros* associaram com a negociação e a operação da conexão PPP.*autenticação* — mensagens do protocolo de autenticação dos indicadores, que incluem trocas da RACHADURA e PAP.
- **debugar o bate-papo** — mostra o aperto de mão que ocorre entre o servidor de acesso e seu modem interno quando o modem for instruído discar para fora. Um bate-papo-script é um grupo de esperar-envia os pares da corda que definem o aperto de mão entre o equipamento de terminal de dados (DTE) e os dispositivos da data communications equipment (DCE).
- **debugar o q931 de ISDN** — indica as mensagens de configuração de chamada e desconexão ISDN Q.931 (canal D) e debugar-las. Nesta encenação, a chamada de modem é levada como um serviço de portador de voz sobre a rede telefônica pública comutada (PSTN).
- **debug modem csm** — permite-o de pesquisar defeitos problemas do módulo de switching de chamadas (CS) no Roteadores com modems digitais internos. Com este comando, você pode rastrear a seqüência completa de chamadas recebidas e enviadas por switching.

```
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 callback 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  
\*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"

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*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
*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=lcp
*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 Async4: (3819567164): user='callmeback'
*Mar 1 01:26:23.271: AAA/AUTHOR/IPCPC Async4: (3819567164): send AV service=ppp *Mar 1
01:26:23.271: AAA/AUTHOR/IPCPC Async4: (3819567164): send AV protocol=ip *Mar 1 01:26:23.275:
```

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AAA/AUTHOR/IPCP: Async4: (3819567164): send AV addr*172.16.25.60 *Mar 1 01:26:23.275:
AAA/AUTHOR/IPCP: 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/IPCP As4: Reject
172.16.25.60, using 172.16.25.60 *Mar 1 01:26:23.287: AAA/AUTHOR/IPCP As4: Processing AV
service=ppp *Mar 1 01:26:23.291: AAA/AUTHOR/IPCP As4: Processing AV protocol=ip *Mar 1
01:26:23.291: AAA/AUTHOR/IPCP As4: Processing AV addr*172.16.25.60 *Mar 1 01:26:23.295:
AAA/AUTHOR/IPCP As4: Authorization succeeded *Mar 1 01:26:23.295: AAA/AUTHOR/IPCP 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
IPCP: State is Open *Mar 1 01:26:23.323: As4 IPCP: Install route to 172.16.25.60      %LINEPROTO-
5-UPDOWN: Line protocol on Interface Async4, changed state to up
      !--- Client is connected.
```

## [Informações Relacionadas](#)

- [Configurando a chamada assíncrona](#)
- [Chamada de retorno PPP sobre ISDN](#)
- [Configurando a chamada de PPP para DDR](#)
- [Configurando o callback de PPP com TACACS+](#)
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