Configurazione di un'interfaccia T1 o E1 per le chiamate analogiche in uscita tramite il comando del controller di uscita del modem

Sommario

Introduzione

In questa configurazione di esempio viene illustrato come configurare un'interfaccia T1 o E1 per le chiamate analogiche in uscita tramite il comando **modem dialout controller**

Operazioni preliminari

Convenzioni

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

Prerequisiti

Non sono previsti prerequisiti specifici per questo documento.

Componenti usati

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

di seguito.

- Software Cisco IOS® versione 12.1(5)T
- Cisco AS5300 con due PRI E1

Nota: il comando **modem dialout controller** è stato introdotto nel software Cisco IOS versione 12.1(T). Per questa implementazione, si consiglia il software Cisco IOS versione 12.1(3)T o successive. Il comando **modem dialout controller** supporta più interfacce a partire dal software IOS versione 12.1(5)T. Ad esempio:

```
AS5300-3(config)#line 1 60
AS5300-3(config-line)#modem dialout controller t1 ?
 <0-7>  List of controllers to dial out

AS5300-3(config-line)#modem dialout controller t1 0,1,3
```

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

Panoramica

Se si desidera che le chiamate analogiche in uscita utilizzino una determinata linea T1/E1, utilizzare il comando **modem dialout controller**. Questo comando è configurato in modalità di configurazione linea, quindi i modem sono associati all'interfaccia T1/E1 specificata per qualsiasi chiamata analogica in uscita. È quindi possibile configurare i comandi DDR (dial on demand routing) necessari sull'interfaccia asincrona (o asincrona di gruppo) corrispondente ai modem.

In questa configurazione di esempio, un server di accesso alla rete (NAS) Cisco AS5300 dispone di due interfacce PRI (Primary Rate Interfaces), ognuna mappata a un DNIS (Dialed Number Identification Service) diverso. Se un client compone il numero 8210, il telecomando passa la chiamata al numero E1 0 e una chiamata al numero 8211 al numero E1 1. Questa configurazione utilizza anche il pooling di modem per allocare i modem in base ai messaggi DNIS (numero chiamato) recapitati dallo switch telco durante la configurazione della chiamata. In questo modo, le chiamate per un determinato numero ricevono una "risposta" solo da un modem membro di un particolare pool di modem. Poiché ogni T1/E1 è anche associato a un particolare numero chiamato, abbiamo effettivamente correlato un set di modem a un particolare T1/E1 per le chiamate in arrivo.

Per dimostrare lo scenario di connessione remota, il client richiede una richiamata dal server di accesso. Il callback è configurato localmente nel server di accesso, ma gli attributi di callback possono essere ottenuti anche da un server di autenticazione, autorizzazione e accounting (AAA) RADIUS/TACACS+. Per una chiamata in arrivo a un determinato numero, la chiamata viene passata alla T1 appropriata e viene risposta da un membro del pool di modem. Dopo la negoziazione della richiamata, il server di accesso disconnette la chiamata e viene avviata una richiamata sullo stesso modem. La chiamata in uscita viene quindi effettuata utilizzando l'interfaccia T1 o E1 specificata nel comando **modem dialout controller**. In questo esempio, la chiamata in uscita è configurata per trovarsi sulla stessa T1/E1 della chiamata in arrivo.
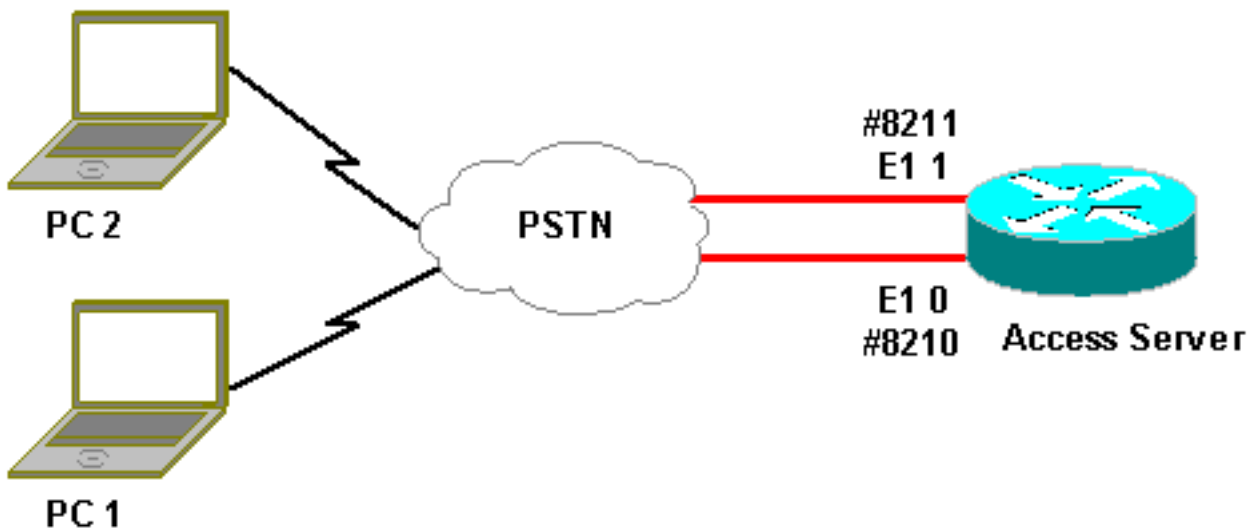
Configurazione

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

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

Esempio di rete

Questo documento utilizza le impostazioni di rete mostrate nel diagramma sottostante.

Configurazioni

Questo documento utilizza le configurazioni mostrate di seguito.

Configurazione server di accesso

```
Current configuration:

!
version 12.1
service timestamps debug datetime msec
service timestamps log uptime msec
no service password-encryption
!
hostname lala
!
logging rate-limit console 10 except errors
!
username testuser callback-dialstring 6036 password 0
test
!-- Access server calls back testuser at phone number
6036 !-- The callback parameters can also be configured
on a RADIUS/TACACS+ server. ! spe 1/0 1/9 firmware
location system:/ucode/mica_port_firmware spe 2/0 2/23
firmware location system:/ucode/microcom_firmware !
resource-pool disable ! modem-pool ModemPool8210 !--
Modem pool for calls to a specific phone number pool-
range 1-40 !-- The range of the modems in the pool !--
Modems 1 through 40 are included in this pool called-
```

```
number 8210 max-conn 40 !-- Specifies the DNIS to be
used for this modem pool !-- Incoming calls for phone
number 8210 are assigned to this pool ! modem-pool
ModemPool8211 pool-range 41-60,61-84 !-- The range of
the modems in the pool !-- Modems 41 through 84 are
included in this pool called-number 8211 max-conn 44 !--
Incoming calls for phone number 8211 are assigned to
this pool ! ip subnet-zero no ip finger ! isdn switch-
type primary-net5 chat-script mod ABORT ERROR ABORT BUSY
"" "AT" OK "ATDT \T" TIMEOUT 30 CONNECT \c !-- Chat
script for dialout ! controller E1 0 !-- DNIS number for
this E1 is 8210 clock source line primary pri-group
timeslots 1-31 ! controller E1 1 !-- DNIS number for
this E1 is 8211 clock source line secondary 1 pri-group
timeslots 1-31 ! controller E1 2 ! controller E1 3 ! !
interface Ethernet0 ip address 10.200.20.22
255.255.255.0 ! interface Serial0:15 !-- D-channel for
E1 0 !-- DNIS number for this PRI is 8210 description
PRI 8210 no ip address encapsulation ppp isdn switch-
type primary-net5 isdn incoming-voice modem !-- All
incoming voice calls on this E1 are sent to the modems !
interface Serial1:15 !-- D-channel for E1 1 !-- DNIS
number for this PRI is 8211 description PRI 8211 no ip
address encapsulation ppp isdn switch-type primary-net5
isdn incoming-voice modem !-- All incoming voice calls
on this E1 are sent to the modems ! interface Group-
Async1 ip unnumbered Ethernet0 encapsulation ppp async
mode interactive peer default ip address pool dialup !--
Assign IP address for incoming calls (with DNIS 8210)
from pool dialup ppp callback accept !-- Permit PPP
Callback ppp authentication chap group-range 1 40 !--
Interface includes modems 1 through 40 that are also in
ModemPool8210 ! interface Group-Async2 ip unnumbered
Ethernet0 encapsulation ppp async mode interactive peer
default ip address pool dialup2 !-- Assign IP address
for incoming calls (with DNIS 8211) from pool dialup2
ppp callback accept !-- Here we accept the callback ppp
authentication chap group-range 41 84 !-- Interface
includes modems 41 through 84 that are also in
ModemPool8211 ! ip local pool dialup 192.168.100.1
192.168.100.15 ip local pool dialup2 192.168.200.32
192.168.200.126 !-- Define the IP address ranges for the
2 pools ip classless no ip http server ! line con 0
exec-timeout 0 0 transport input none line 1 40 !-- Line
configuration for modems 1-40 !-- These modems are in
pool ModemPool8210 autoselect during-login autoselect
ppp script callback mod !-- Invoke chat script mod for
the callback login local modem InOut !-- Set the modems
for dialin and dialout modem dialout controller e1 0 !--
Outgoing call on these modems use e1 0 line 41 84 !--
Line configuration for modems 41-84 !-- These modems are
in pool ModemPool8210 autoselect during-login autoselect
ppp script callback mod !-- Invoke chat script mod for
the callback login local modem InOut modem dialout
controller e1 1 !-- Outgoing call on these modems use e1
1 line aux 0 line vty 0 4 ! end
```

Verifica

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

Risoluzione dei problemi

Le informazioni contenute in questa sezione permettono di risolvere i problemi relativi alla configurazione.

Comandi per la risoluzione dei problemi

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

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

- **debug isdn q931** - Visualizza la configurazione e la disattivazione delle chiamate della connessione di rete ISDN (livello 3) tra il router e lo switch ISDN.
- **debug ppp negotiation**: visualizza le informazioni sul traffico e gli scambi PPP (Point-to-Point Protocol) durante la negoziazione dei componenti PPP, inclusi LCP (Link Control Protocol), autenticazione e NCP (Network Control Protocol). Una negoziazione PPP riuscita apre innanzitutto lo stato LCP, quindi autentica e infine negozia NCP (generalmente IP Control Protocol - IPCP).
- **debug ppp authentication**: visualizza i messaggi del protocollo di autenticazione PPP, inclusi gli scambi di pacchetti Challenge Authentication Protocol (CHAP) e gli scambi del protocollo PAP (Password Authentication Protocol).
- **debug chat** - Per monitorare l'esecuzione dello script di chat quando viene avviata la composizione del POTS (Plain Old Telephone Service) o asincrono. Uno script di chat è un insieme di coppie di stringhe di invio previsto che definiscono il handshake tra dispositivi DTE (Data Terminal Equipment) e DCE (Data Communications Equipment).
- **debug callback**: visualizza gli eventi di callback quando il router utilizza un modem e uno script di chat per richiamare una linea terminale.
- **debug dialer**: visualizza le informazioni di debug sui pacchetti ricevuti tramite l'interfaccia dialer.
- **debug modem csm** (non visualizzato qui) - Visualizza le informazioni di debug sulla macchina a stato di chiamata utilizzata per connettere le chiamate al modem. Mostra come la chiamata del modem viene gestita dal processo di gestione del modem interno.

Output di esempio del comando debug

Di seguito viene riportato l'output ottenuto utilizzando i comandi **debug** mostrati sopra.

L'output mostra il client che chiama il numero 8210. La chiamata passa quindi a E1 0 e viene ripresa dal modem 14 (Async 14), che è membro del pool ModemPool8210. La chiamata si connette, il PPP (e la richiamata) viene negoziato, il client viene autenticato e AS5300 disconnette la chiamata in preparazione alla richiamata. Il router avvia quindi la richiamata utilizzando lo stesso modem (Async 14). In base al comando **modem dialout controller**, la chiamata utilizza E1 0 e viene eseguita la chiamata in uscita.

Nota: alcune delle righe di debug più lunghe sono state incapsulate per una stampa più agevole. Le righe che iniziano senza timestamp iniziano dalla fine della riga precedente.

```
*Jan  1 05:00:43.018: ISDN Se0:15: RX <-  SETUP pd = 8  callref = 0x266A
!-- Incoming Call on E1 0
*Jan  1 05:00:43.018:         Sending Complete
*Jan  1 05:00:43.018:         Bearer Capability i = 0x9090A3
*Jan  1 05:00:43.018:         Channel ID i = 0xA18398
*Jan  1 05:00:43.022:         Progress Ind i = 0x8183
- Origination address is non-ISDN
*Jan  1 05:00:43.022:         Calling Party Number i = 0xA1, '6036',Plan:ISDN,
Type:National
*Jan  1 05:00:43.022:         Called Party Number i = 0x81, '210', Plan:ISDN,
Type:Unknown
```
!-- The called number (DNIS) for the incoming call is (8)210 `*Jan 1 05:00:43.022: Locking Shift to Codeset 6 *Jan 1 05:00:43.022: Codeset 6 IE 0x28 i = 'Analog', 0x20, '36' *Jan 1 05:00:43.026: ISDN Se0:15: TX -> CALL_PROC pd = 8 callref =0xA66A *Jan 1 05:00:43.026: Channel ID i = 0xA98398 *Jan 1 05:00:43.030: ISDN Se0:15: TX -> ALERTING pd = 8 callref = 0xA66A *Jan 1 05:00:43.082: ISDN Se0:15: TX -> CONNECT pd = 8 callref = 0xA66A *Jan 1 05:00:43.146: ISDN Se0:15: RX <- CONNECT_ACK pd = 8 callref =0x266A *Jan 1 05:00:43.146: ISDN Se0:15: CALL_PROGRESS: CALL_CONNECTED call id0x63, bchan 23, dsl 0 *Jan 1 05:00:45: %ISDN-6-CONNECT:` **Interface Serial0:23 is now connected to 6036**

!-- Call is connected `*Jan 1 05:01:11.158: As14 LCP: I CONFREQ [Closed] id 1 len 50` *!-- PPP negotiation begins. Note that the call is on !-- Async 14, which is a member of the pool ModemPool8210* `*Jan 1 05:01:11.158: As14 LCP: ACCM 0x00000000 (0x020600000000) *Jan 1 05:01:11.158: As14 LCP: MagicNumber 0x75D617D5 (0x050675D617D5) *Jan 1 05:01:11.158: As14 LCP: PFC (0x0702) *Jan 1 05:01:11.158: As14 LCP: ACFC (0x0802) *Jan 1 05:01:11.158: As14 LCP: Callback 6 (0x0D0306) *Jan 1 05:01:11.158: As14 LCP: MRRU 1614 (0x1104064E) *Jan 1 05:01:11.158: As14 LCP: EndpointDisc 1 Local *Jan 1 05:01:11.158: As14 LCP: (0x13170177DE54DA55A24ADD8043063898) *Jan 1 05:01:11.158: As14 LCP: (0x1C049700000000) *Jan 1 05:01:11.158: As14 LCP: Lower layer not up, Fast Starting *Jan 1 05:01:11.158: As14 PPP: Treating connection as a dedicated line *Jan 1 05:01:11.158: As14 PPP: Phase is ESTABLISHING, Active Open [0 sess,1 load] *Jan 1 05:01:11.158: As14 LCP: O CONFREQ [Closed] id 1 len 25 *Jan 1 05:01:11.158: As14 LCP: ACCM 0x000A0000 (0x0206000A0000) *Jan 1 05:01:11.158: As14 LCP: AuthProto CHAP (0x0305C22305) *Jan 1 05:01:11.158: As14 LCP: MagicNumber 0x118F14E6 (0x0506118F14E6) *Jan 1 05:01:11.158: As14 LCP: PFC (0x0702) *Jan 1 05:01:11.158: As14 LCP: ACFC (0x0802) *Jan 1 05:01:11.158: As14 LCP: O CONFREJ [REQsent] id 1 len 31 *Jan 1 05:01:11.158: As14 LCP: MRRU 1614 (0x1104064E) *Jan 1 05:01:11.158: As14 LCP: EndpointDisc 1 Local *Jan 1 05:01:11.158: As14 LCP: (0x13170177DE54DA55A24ADD8043063898) *Jan 1 05:01:11.162: As14 LCP: (0x1C049700000000) *Jan 1 05:01:13: %LINK-3-UPDOWN:` **Interface Async14, changed state to up**

!-- Interface Async 14 is up `*Jan 1 05:01:11.302: As14 LCP: I CONFACK [REQsent] id 1 len 25 *Jan 1 05:01:11.302: As14 LCP: ACCM 0x000A0000 (0x0206000A0000) *Jan 1 05:01:11.302: As14 LCP: AuthProto CHAP (0x0305C22305) *Jan 1 05:01:11.302: As14 LCP: MagicNumber 0x118F14E6 (0x0506118F14E6) *Jan 1 05:01:11.302: As14 LCP: PFC (0x0702) *Jan 1 05:01:11.302: As14 LCP: ACFC (0x0802) *Jan 1 05:01:11.302: As14 LCP: I CONFREQ [ACKrcvd] id 2 len 23 *Jan 1 05:01:11.302: As14 LCP: ACCM 0x00000000 (0x020600000000) *Jan 1 05:01:11.302: As14 LCP: MagicNumber 0x75D617D5 (0x050675D617D5) *Jan 1 05:01:11.302: As14 LCP: PFC (0x0702) *Jan 1 05:01:11.302: As14 LCP: ACFC (0x0802) *Jan 1 05:01:11.302:` **As14 LCP: Callback 6 (0x0D0306)**

```
*Jan  1 05:01:11.302: As14 LCP: O CONFACK [ACKrcvd] id 2 len 23
*Jan  1 05:01:11.302: As14 LCP:    ACCM 0x00000000 (0x020600000000)
*Jan  1 05:01:11.302: As14 LCP:    MagicNumber 0x75D617D5 (0x050675D617D5)
*Jan  1 05:01:11.302: As14 LCP:    PFC (0x0702)
*Jan  1 05:01:11.302: As14 LCP:    ACFC (0x0802)
```
`*Jan  1 05:01:11.302:` **As14 LCP: Callback** 6 (0x0D0306)

!-- Callback is negotiated `*Jan 1 05:01:11.302: As14 LCP: State is Open *Jan 1 05:01:11.302: As14 PPP: Phase is AUTHENTICATING, by this end [0 sess, 1 load] *Jan 1 05:01:11.302: As14 CHAP: O CHALLENGE id 1 len 25 from "lala" *Jan 1 05:01:11.446: As14 LCP: I IDENTIFY [Open] id 3 len 18 magic 0x75D617D5 MSRASV5.00 *Jan 1 05:01:11.462: As14 LCP: I IDENTIFY [Open] id 4 len 28 magic 0x75D617D5 MSRAS-1-TESTPC-W2K *Jan 1 05:01:11.462: As14 CHAP: I RESPONSE id 1 len 29 from "testuser" *Jan 1 05:01:11.462: As14` **CHAP: O SUCCESS** `id 1 len 4`

!-- CHAP authentication is successful `*Jan 1 05:01:11.462: As14 MCB:` **User testuser Callback Number - Server 6036**

!-- Number to be used for callback, configured locally in the username !-- command. The callback information can be off loaded to an AAA server. `*Jan 1 05:01:11.462: Async14 PPP: O MCB`

Request(1) id 1 len 7 *Jan 1 05:01:11.462: Async14 MCB: O 1 1 0 7 3 3 0 *Jan 1 05:01:11.462:
As14 MCB: O Request Id 1 Callback Type Server-Num delay 0 *Jan 1 05:01:11.462: As14 PPP: Phase
is CBCP [0 sess, 1 load] *Jan 1 05:01:11.606: Async14 PPP: I MCB Response(2) id 1 len 7 *Jan 1
05:01:11.606: Async14 MCB: I 2 1 0 7 3 3 C *Jan 1 05:01:11.606: As14 MCB: Received response *Jan
1 05:01:11.606: As14 MCB: Response CBK-Server-Num 3 3 12 *Jan 1 05:01:11.606: Async14 PPP: O MCB
Ack(3) id 2 len 7 *Jan 1 05:01:11.606: Async14 MCB: O 3 2 0 7 3 3 C *Jan 1 05:01:11.606: As14
MCB: O Ack Id 2 Callback Type Server-Num delay 12 *Jan 1 05:01:11.606: As14 MCB: Negotiated MCB
with peer *Jan 1 05:01:11.734: As14 LCP: I TERMREQ [Open] id 5 len 16
(0x75D617D5003CCD7400000000) *Jan 1 05:01:11.734: As14 LCP: O TERMACK [Open] id 5 len 4 *Jan 1
05:01:11.734: As14 MCB: Peer terminating the link *Jan 1 05:01:11.734: As14 MCB: Link terminated
by peer, Callback Needed *Jan 1 05:01:11.734: As14 MCB: Initiate Callback for testuser at 6036
using Async *Jan 1 05:01:11.734: As14 MCB: Async-callback in progress *Jan 1 05:01:11.734: As14
PPP: Phase is TERMINATING [0 sess, 1 load] *Jan 1 05:01:11.734: TTY14 Callback PPP process
creation *Jan 1 05:01:11.734: TTY14: Callback script exists - no script creation necessary *Jan
1 05:01:11.734: TTY14 Callback process initiated, user: testuser dialstring 6036 *Jan 1
05:01:14: %ISDN-6-DISCONNECT: Interface Serial0:23 **disconnected**
from 6036, call lasted 29 seconds
!-- Call is disconnected *Jan 1 05:01:12.386: ISDN Se0:15: TX -> DISCONNECT pd = 8 callref =
0xA66A *Jan 1 05:01:12.386: Cause i = 0x809F - Normal, unspecified *Jan 1 05:01:12.450: ISDN
Se0:15: RX <- RELEASE pd = 8 callref = 0x266A *Jan 1 05:01:12.450: ISDN Se0:15: TX ->
RELEASE_COMP pd = 8 callref = 0xA66A *Jan 1 05:01:13.734: As14 LCP: TIMEout: State TERMsent *Jan
1 05:01:13.734: As14 LCP: State is Closed *Jan 1 05:01:13.734: As14 PPP: Phase is DOWN [0 sess,
1 load] *Jan 1 05:01:13.734: As14 PPP: Phase is ESTABLISHING, Passive Open [0 sess, 1 load] *Jan
1 05:01:13.734: As14 LCP: State is Listen *Jan 1 05:01:16: %LINK-5-CHANGED: Interface Async14,
changed state to reset *Jan 1 05:01:14.734: As14 LCP: State is Closed *Jan 1 05:01:14.734: As14
PPP: Phase is DOWN [0 sess, 1 load] *Jan 1 05:01:17.734: As14 IPCP: Remove route to
192.168.100.13 *Jan 1 05:01:17.734: TTY14 Callback forced wait = 4 seconds *Jan 1 05:01:21:
%LINK-3-UPDOWN: Interface Async14, changed state to down *Jan 1 05:01:19.734: As14 LCP: State is
Closed *Jan 1 05:01:21.766: CHAT14: Matched chat script mod to string mod *Jan 1 05:01:21.766:
CHAT14: Asserting DTR *Jan 1 05:01:21.766: CHAT14: **Chat script mod started**
!-- Callback chatscript mod is started *Jan 1 05:01:21.766: CHAT14: Sending string: ATZ *Jan 1
05:01:21.766: CHAT14: Expecting string: OK *Jan 1 05:01:21.814: CHAT14: Completed match for
expect: OK *Jan 1 05:01:21.814: CHAT14: Sending string: ATDT \T<6036> *!-- Dial 6036 per the
callback configuration* *Jan 1 05:01:21.814: CHAT14: Expecting string: CONNECT *Jan 1
05:01:21.902: ISDN **Se0:15: TX -> SETUP** pd = 8 callref = 0x0008
!-- The outgoing call uses E1 0 as per the modem dialout controller !-- command for modem 14.
*Jan 1 05:01:21.902: Bearer Capability i = 0x8090A3 *Jan 1 05:01:21.902: Channel ID i = 0xA9839F
*Jan 1 05:01:21.902: Progress Ind i = 0x8183 - Origination address is non-ISDN *Jan 1
05:01:21.902: Calling Party Number i = 0x80, '6036', Plan:Unknown, Type:Unknown *Jan 1
05:01:21.902: Called Party Number i = 0x80, '6036', Plan:Unknown, Type:Unknown *Jan 1
05:01:21.946: ISDN Se0:15: RX <- CALL_PROC pd = 8 callref = 0x8008 *Jan 1 05:01:21.946: Channel
ID i = 0xA9839F *Jan 1 05:01:21.974: ISDN Se0:15: RX <- ALERTING pd = 8 callref = 0x8008 *Jan 1
05:01:28.958: ISDN Se0:15: RX <- CONNECT pd = 8 callref = 0x8008 *Jan 1 05:01:28.962: Progress
Ind i = 0x8182 - Destination address is non-ISDN *Jan 1 05:01:28.962: Connected Number i =
0xA136303336 *Jan 1 05:01:28.962: Locking Shift to Codeset 6 *Jan 1 05:01:28.962: Codeset 6 IE
0x28 i = 'Analog', 0x20, '36' *Jan 1 05:01:31: %ISDN-6-CONNECT: Interface Serial0:30 is now
connected to 6036 *Jan 1 05:01:28.966: ISDN Se0:15: TX -> CONNECT_ACK pd = 8 callref =0x0008
*Jan 1 05:01:41.562: CHAT14: Completed match for expect: CONNECT *Jan 1 05:01:41.566: CHAT14:
Sending string: \c *Jan 1 05:01:41.566: CHAT14: Chat script mod finished, status = Success *Jan
1 05:01:41.598: TTY14: Callback starting PPP directly with Invalid auth info *Jan 1
05:01:41.642: As14 **LCP: I CONFREQ** [Closed] id 0 len 47
!-- PPP negotiation begins *Jan 1 05:01:41.646: As14 LCP: ACCM 0x00000000 (0x020600000000) *Jan
1 05:01:41.646: As14 LCP: MagicNumber 0x143F35CB (0x0506143F35CB) *Jan 1 05:01:41.646: As14 LCP:
PFC (0x0702) *Jan 1 05:01:41.646: As14 LCP: ACFC (0x0802) *Jan 1 05:01:41.646: As14 LCP: MRRU
1614 (0x1104064E) *Jan 1 05:01:41.646: As14 LCP: EndpointDisc 1 Local *Jan 1 05:01:41.646: As14
LCP: (0x13170177DE54DA55A24ADD8043063898) *Jan 1 05:01:41.646: As14 LCP: (0x1C049700000000) *Jan
1 05:01:41.646: As14 LCP: Lower layer not up, Fast Starting *Jan 1 05:01:41.646: As14 PPP:
Treating connection as a callout *Jan 1 05:01:41.646: As14 PPP: Phase is ESTABLISHING, Active
Open [0 sess,1 load] *Jan 1 05:01:41.646: As14 LCP: O CONFREQ [Closed] id 2 len 25 *Jan 1
05:01:41.646: As14 LCP: ACCM 0x000A0000 (0x0206000A0000) *Jan 1 05:01:41.646: As14 LCP:
AuthProto CHAP (0x0305C22305) *Jan 1 05:01:41.646: As14 LCP: MagicNumber 0x118F8C01
(0x0506118F8C01) *Jan 1 05:01:41.646: As14 LCP: PFC (0x0702) *Jan 1 05:01:41.646: As14 LCP: ACFC
(0x0802) *Jan 1 05:01:41.646: As14 LCP: O CONFREJ [REQsent] id 0 len 31 *Jan 1 05:01:41.646:
As14 LCP: MRRU 1614 (0x1104064E) *Jan 1 05:01:41.646: As14 LCP: EndpointDisc 1 Local *Jan 1

```
05:01:41.646: As14 LCP: (0x13170177DE54DA55A24ADD8043063898) *Jan 1 05:01:41.646: As14 LCP:
(0x1C049700000000) *Jan 1 05:01:43: %LINK-3-UPDOWN: Interface Async14, changed state to up *Jan
1 05:01:41.810: As14 LCP: I CONFACK [REQsent] id 2 len 25 *Jan 1 05:01:41.810: As14 LCP: ACCM
0x000A0000 (0x0206000A0000) *Jan 1 05:01:41.810: As14 LCP: AuthProto CHAP (0x0305C22305) *Jan 1
05:01:41.810: As14 LCP: MagicNumber 0x118F8C01 (0x0506118F8C01) *Jan 1 05:01:41.810: As14 LCP:
PFC (0x0702) *Jan 1 05:01:41.810: As14 LCP: ACFC (0x0802) *Jan 1 05:01:41.842: As14 LCP: I
CONFREQ [ACKrcvd] id 1 len 20 *Jan 1 05:01:41.842: As14 LCP: ACCM 0x00000000 (0x020600000000)
*Jan 1 05:01:41.842: As14 LCP: MagicNumber 0x143F35CB (0x0506143F35CB) *Jan 1 05:01:41.842: As14
LCP: PFC (0x0702) *Jan 1 05:01:41.842: As14 LCP: ACFC (0x0802) *Jan 1 05:01:41.842: As14 LCP: O
CONFACK [ACKrcvd] id 1 len 20 *Jan 1 05:01:41.842: As14 LCP: ACCM 0x00000000 (0x020600000000)
*Jan 1 05:01:41.842: As14 LCP: MagicNumber 0x143F35CB (0x0506143F35CB) *Jan 1 05:01:41.842: As14
LCP: PFC (0x0702) *Jan 1 05:01:41.842: As14 LCP: ACFC (0x0802) *Jan 1 05:01:41.842: As14 LCP:
State is Open *Jan 1 05:01:41.842: As14 PPP: Phase is AUTHENTICATING, by this end [0 sess, 1
load] *Jan 1 05:01:41.842: As14 CHAP: O CHALLENGE id 2 len 25 from "lala" *Jan 1 05:01:42.002:
As14 LCP: I IDENTIFY [Open] id 2 len 18 magic 0x143F35CB MSRASV5.00 *Jan 1 05:01:42.018: As14
LCP: I IDENTIFY [Open] id 3 len 28 magic 0x143F35CB MSRAS-1-TESTPC-W2K *Jan 1 05:01:42.034: As14
CHAP: I RESPONSE id 2 len 29 from "testuser" *Jan 1 05:01:42.034: As14 CHAP: O SUCCESS id 2 len
4
```
!-- PPP negotiation is successful *Jan 1 05:01:42.034: As14 PPP: Phase is UP [0 sess, 1 load]
*Jan 1 05:01:42.034: **As14 IPCP**: O CONFREQ [Closed] id 1 len 10

!-- IPCP parameters are now negotiated *Jan 1 05:01:42.034: As14 IPCP: Address 10.200.20.22
```
(0x03060AC81416) *Jan 1 05:01:42.194: As14 CCP: I CONFREQ [Not negotiated] id 4 len 10 *Jan 1
05:01:42.194: As14 CCP: MS-PPC supported bits 0x00000001 (0x120600000001) *Jan 1 05:01:42.194:
As14 LCP: O PROTREJ [Open] id 3 len 16 protocol CCP (0x80FD0104000A120600000001) *Jan 1
05:01:42.210: As14 IPCP: I CONFREQ [REQsent] id 5 len 40 *Jan 1 05:01:42.210: As14 IPCP:
CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) *Jan 1 05:01:42.210: As14 IPCP: Address
0.0.0.0 (0x030600000000) *Jan 1 05:01:42.210: As14 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
*Jan 1 05:01:42.210: As14 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000) *Jan 1 05:01:42.210: As14
IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) *Jan 1 05:01:42.210: As14 IPCP: SecondaryWINS
0.0.0.0 (0x840600000000) *Jan 1 05:01:42.210: As14 IPCP: O CONFREJ [REQsent] id 5 len 34 *Jan 1
05:01:42.210: As14 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) *Jan 1
05:01:42.210: As14 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) *Jan 1 05:01:42.210: As14 IPCP:
PrimaryWINS 0.0.0.0 (0x820600000000) *Jan 1 05:01:42.210: As14 IPCP: SecondaryDNS 0.0.0.0
(0x830600000000) *Jan 1 05:01:42.210: As14 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) *Jan 1
05:01:42.214: As14 IPCP: I CONFACK [REQsent] id 1 len 10 *Jan 1 05:01:42.214: As14 IPCP: Address
10.200.20.22 (0x03060AC81416) *Jan 1 05:01:42.386: As14 IPCP: I CONFREQ [ACKrcvd] id 6 len 10
*Jan 1 05:01:42.386: As14 IPCP: Address 0.0.0.0 (0x030600000000) *Jan 1 05:01:42.386: As14 IPCP:
O CONFNAK [ACKrcvd] id 6 len 10 *Jan 1 05:01:42.386: As14 IPCP: Address 192.168.100.13
(0x0306C0A8640D) *Jan 1 05:01:42.546: As14 IPCP: I CONFREQ [ACKrcvd] id 7 len 10 *Jan 1
05:01:42.546: As14 IPCP: Address 192.168.100.13 (0x0306C0A8640D) *Jan 1 05:01:42.546: As14 IPCP:
O CONFACK [ACKrcvd] id 7 len 10 *Jan 1 05:01:42.546: As14 IPCP: Address 192.168.100.13
(0x0306C0A8640D) *Jan 1 05:01:42.546: As14 IPCP: State is Open *Jan 1 05:01:42.550: As14 IPCP:
Install route to 192.168.100.13 *Jan 1 05:01:45: %LINEPROTO-5-UPDOWN: Line protocol on Interface
Async14, changed state to up
```
*!-- Callback connection is up, PPP negotiation is complete !-- and
a route is installed.*

Informazioni correlate

- Callback Async-PPP tra un server di accesso e un PC
- Callback PPP su ISDN
- Pool di modem con DNIS
- Pool DNIS e modem con linea PRI
- Supporto tecnico – Cisco Systems