

# مدخات س م و Cisco 3640 هجوم ني ب لاصتال ا در V.110 عضو ي ف دي عب

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## المقدمة

يقدم هذا المستند نموذجاً لتكوين المستخدمين البعيدين الذين يتصلون باستخدام أحد الأساليب التالية. وفي كل حالة، يتم إجراء الاستدعاء باستخدام مكالمة V.110.

- المستخدمون الذين يقومون بتوصيل 3640 عبر GSM ويطلبون إعادة الاتصال.
  - المستخدمون الذين يقومون بتوصيل الطراز 3640 عبر مودم ويطلبون إعادة الاتصال.
  - المستخدمون الذين يقومون بتوصيل الطراز 3640 عبر شبكة ISDN (البيانات) ويطلبون إعادة الاتصال.
- ملاحظة: يتم تكوين المصادقة والتفويض والمحاسبة (AAA) على الموجه بشكل افتراضي. يجب أيضاً إنشاء مستخدم لتسجيل الدخول.

في هذا المثال، قمنا أيضاً بتعيين مصادقة بروتوكول الاتصال من نقطة إلى نقطة (PPP) للاستدعاء والاستدعاء. لقد قمنا بتغيير البرنامج النصي لتكوين المودم ل V.110 طوال الوقت، وللسماع للمستخدمين باختيار طريقتهم (المودم أو GSM). وفقاً للطريقة المختارة، يجب على المستخدمين:

- أستخدم ZDTxxx في رقم الاستدعاء (للمودم).
- أستخدم DIxxxx في رقم الاستدعاء (ل GSM).

## المتطلبات الأساسية

### المتطلبات

لا توجد متطلبات خاصة لهذا المستند.

## المكونات المستخدمة

تستند المعلومات الواردة في هذا المستند إلى إصدارات البرامج والمكونات المادية التالية:

- تتوفر ميزة الاستدعاء V.110 على Rosa IOS؟؟ برنامج الإصدار 12.2(5.2)T والإصدارات الأحدث.
- برنامج المودم، الإصدار 2.7.3.0.

تم إنشاء المعلومات الواردة في هذا المستند من الأجهزة الموجودة في بيئة معملية خاصة. بدأت جميع الأجهزة المستخدمة في هذا المستند بتكوين ممسوح (افتراضي). إذا كانت شبكتك مباشرة، فتأكد من فهمك للتأثير المحتمل لأي أمر.

## الاصطلاحات

للحصول على مزيد من المعلومات حول اصطلاحات المستندات، ارجع إلى [اصطلاحات تلميحات Cisco التقنية](#).

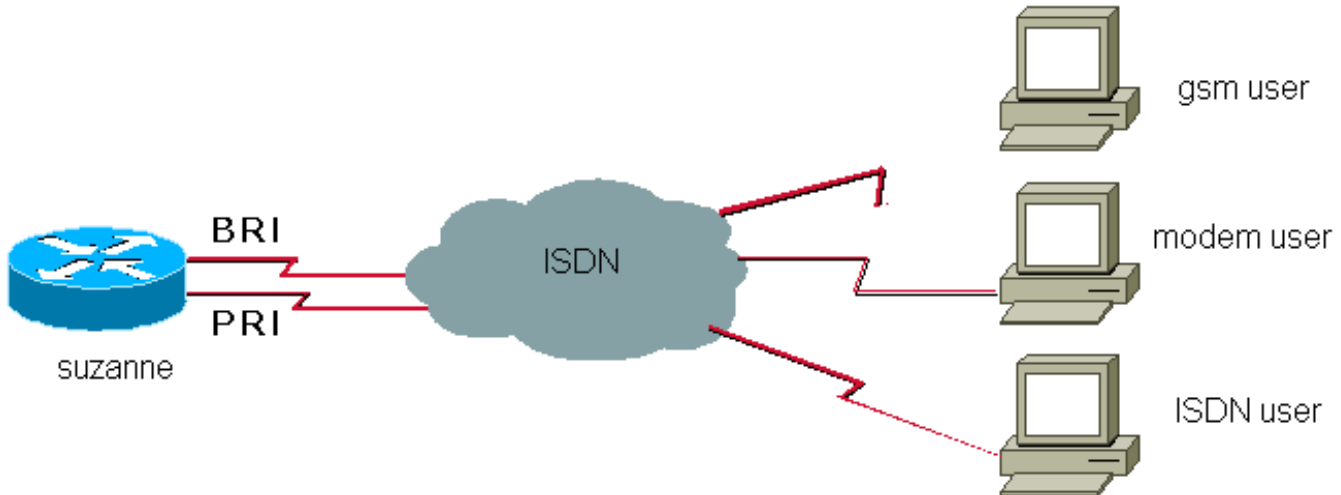
## التكوين

في هذا القسم، تُقدّم لك معلومات تكوين الميزات الموضحة في هذا المستند.

ملاحظة: للعثور على معلومات إضافية حول الأوامر المستخدمة في هذا المستند، استخدم [أداة بحث الأوامر \(للعلماء المسجلين فقط\)](#).

## الرسم التخطيطي للشبكة

يستخدم هذا المستند إعداد الشبكة الموضح في هذا الرسم التخطيطي.



## التكوينات

يستخدم هذا وثيقة هذا تشكيل:

• سوزان

سوزان

```
suzanne#show running-config
```

```

!
version 12.2
service internal
!
hostname suzanne
!
aaa new-model
!
aaa authentication login default local
aaa authentication ppp default local
aaa authorization network default local
aaa session-id common
!
username ww password 0
username alainisdn password 0
username alaingsm callback-dialstring "" password 0
username alainmod callback-dialstring "" password 0
!
modem country mica belgium
!
isdn switch-type primary-net5
isdn voice-call-failure 0
chat-script offhook "" "ATH1" OK
"chat-script callback ABORT ERROR ABORT BUSY "" "AT&F
OK "ATX3DT \T" TIMEOUT 90 \c
chat-script callbacklanalog ABORT ERROR ABORT BUSY ""
"AT&F
OK "ATDT \T" TIMEOUT 90 CONNECT \c
chat-script callback2gsm ABORT ERROR ABORT BUSY ""
"AT&F
OK "ATS29=8" OK "AT \T" TIMEOUT 90 CONNECT \c
!
controller E1 1/0
pri-group timeslots 1-31
!
interface Ethernet0/0
ip address 172.17.243.105 255.255.255.0
!
interface Serial1/0:15
description E1 0451/39920
no ip address
encapsulation ppp
dialer rotary-group 1
isdn switch-type primary-net5
isdn incoming-voice modem
isdn outgoing-voice info-transfer-capability 3.1kHz-
audio
no cdp enable
ppp authentication chap callin
!
interface BRI3/1
description belgacom 027202094
no ip address
encapsulation ppp
isdn switch-type basic-net3
isdn incoming-voice modem
no cdp enable
!
interface Group-Async1
ip unnumbered Dialer1
encapsulation ppp
dialer in-band
dialer callback-secure
dialer-group 1

```

```

async dynamic routing
async mode interactive
peer default ip address pool pool
    ppp callback accept
    ppp authentication pap
    group-range 65 94
!
interface Dialer1
description Dial-In User
ip address 172.31.1.1 255.255.0.0
ip helper-address 90.100.48.38
ip helper-address 90.100.60.202
encapsulation ppp
dialer in-band
dialer callback-secure
dialer map ip 172.31.1.2 name alainisdn class callback
    6136
peer default ip address pool pool
    no cdp enable
    ppp callback accept
    ppp authentication chap callin
!
map-class dialer callback
dialer callback-server username
dialer-list 1 protocol ip permit
!
line con 0
exec-timeout 0 0
password
line 65 94
script dialer callback2gsm
script callback callback2gsm
modem InOut
transport input telnet
transport output pad v120 lapb-ta telnet rlogin udptn
autoselect during-login
autoselect ppp
stopbits 1
flowcontrol hardware
line aux 0
password
line vty 0 4
exec-timeout 0 0
password
!
end

```

## [التحقق من الصحة](#)

يوفر هذا القسم معلومات يمكنك استخدامها للتأكد من أن التكوين يعمل بشكل صحيح.

يتم دعم بعض أوامر العرض بواسطة [أداة مترجم الإخراج \(العملاء المسجلون فقط\)](#)، والتي تتيح لك عرض تحليل [إخراج أمر العرض](#).

• `show ip route`؟؟؟ يعرض محتويات جدول توجيه IP

## [استكشاف الأخطاء وإصلاحها](#)

يوفر هذا القسم معلومات يمكنك استخدامها لاستكشاف أخطاء التكوين وإصلاحها.

**ملاحظة:** قبل إصدار أوامر تصحيح الأخطاء، راجع [المعلومات المهمة في أوامر تصحيح الأخطاء](#).

- **تصحيح أخطاء المودم** — لمراقبة نشاط خط المودم على خادم الوصول.
- **أحداث طالب تصحيح الأخطاء** — يعرض معلومات تصحيح الأخطاء الخاصة بالحزم المستلمة على واجهة المتصل.
- **debug ppp authentication** — يعرض رسائل بروتوكول المصادقة، بما في ذلك عمليات تبادل حزم بروتوكول المصادقة المتباينة (CHAP) وعمليات تبادل بروتوكول مصادقة كلمة المرور (PAP).
- **debug ppp cbcp** — يعرض أخطاء البروتوكول والإحصائيات المرتبطة بمفاوضات اتصال PPP باستخدام بروتوكول التحكم في الاستدعاء (MSCB) من Microsoft.
- **debug isdn q931** — يعرض معلومات حول إعداد المكالمات وإنهائها لاتصالات شبكة ISDN (الطبقة 3) بين الموجه المحلي (جانب المستخدم) والشبكة.
- **debug chat** — يتحقق من أن البرنامج النصي للردشة يعمل بشكل صحيح.
- **debug callback** — يعرض أحداث رد الاتصال عندما يستخدم الموجه مودم ونص محادثة للاتصال مرة أخرى على خط طرفي.

## إخراج تصحيح الأخطاء للعينة

### رد اتصال GSM باستخدام V.110

```
#suzanne
ISDN BR3/1: RX <- SETUP pd = 8 callref = 0x2F :01:03:00
    Sending Complete :01:03:00
    Bearer Capability i = 0x9090A3 :01:03:00
    Channel ID i = 0x89 :01:03:00
    ,Calling Party Number i = 0x21, 0x83, '478681006', Plan:ISDN :01:03:00
    Type:National
    Called Party Number i = 0xA1, '27202094', Plan:ISDN, Type:National :01:03:00
ISDN BR3/1: Event: Received a VOICE call from 478681006 on B1 at 64 Kb/s :01:03:00
    ISDN BR3/1: Event: Accepting the call id 0x19 :01:03:00
ISDN-6-LAYER2UP: Layer 2 for Interface BR3/1, TEI 70 changed to up% :01:03:00
    ISDN BR3/1: TX -> CALL_PROC pd = 8 callref = 0xAF :01:03:00
    Channel ID i = 0x89 :01:03:00
    ISDN BR3/1: TX -> ALERTING pd = 8 callref = 0xAF :01:03:00
    ISDN BR3/1: TX -> CONNECT pd = 8 callref = 0xAF :01:03:00
    ISDN BR3/1: RX <- CONNECT_ACK pd = 8 callref = 0x2F :01:03:01
    ,Modem 2/12 Mica: configured for Answer mode :01:03:01
    .with Null signaling,0x0 tone detection
    Modem 2/12 Mica: in modem state CALL_SETUP :01:03:01
    Modem 2/12 Mica: in modem state CONNECT :01:03:02
    Modem 2/12 Mica: in modem state LINK :01:03:06
ISDN-6-CONNECT: Interface BRI3/1:1 is now connected to 478681006% :01:03:07
    Modem 2/12 Mica: in modem state TRAINUP :01:03:15
    Modem 2/12 Mica: in modem state EC_NEGOTIATING :01:03:17
    Modem 2/12 Mica: in modem state STEADY :01:03:18
    Modem 2/12 Mica: CONNECT at 31200/31200 (Tx/Rx), V34+, LAPM, None :01:03:18
    TTY77: DSR came up :01:03:19
    (tty77: Modem: IDLE->(unknown :01:03:19
    TTY77: EXEC creation :01:03:19
    TTY77: set timer type 10, 30 seconds :01:03:19
    TTY77: Autoselect(2) sample 7E :01:03:19
    TTY77: Autoselect(2) sample 7EFF :01:03:19
    TTY77: Autoselect(2) sample 7EFF7D :01:03:19
    TTY77: Autoselect(2) sample 7EFF7D23 :01:03:19
```

```
TTY77 Autoselect cmd: ppp negotiate :01:03:19
TTY77: EXEC creation :01:03:19
TTY77: create timer type 1, 600 seconds :01:03:19
TTY77: destroy timer type 1 :01:03:19
TTY77: no timer type 0 to destroy :01:03:19
<As77 DDR: Dialer received incoming call from <unknown :01:03:19
LINK-3-UPDOWN: Interface Async77, changed state to up% :01:03:21
As77 DDR: Dialer statechange to up :01:03:21
<As77 DDR: Dialer received incoming call from <unknown :01:03:21
As77 PPP: Treating connection as a callin :01:03:21
As77 PPP: Authorization required :01:03:21
Modem 2/12 Mica: PPP escape_map: Tx map = FFFFFFFF, Rx map = 0 :01:03:22
As77 PPP: Authorization required :01:03:22
Modem 2/12 Mica: PPP escape_map: Tx map = A0000, Rx map = 0 :01:03:27
As77 MCB: Initialize :01:03:27
MCB: Flush :01:03:27
,Modem 2/12 Mica: Bad RX Frame: control = 0xE007, length = 0xD :01:03:27
buffer = 0x3BC6E54
"As77 PAP: I AUTH-REQ id 2 len 16 from "alaingsm :01:03:30
As77 PAP: Authenticating peer alaingsm :01:03:30
As77 PPP: Sent PAP LOGIN Request to AAA :01:03:30
As77 PPP: Received LOGIN Response from AAA = PASS :01:03:30
As77 DDR: Remote name for alaingsm :01:03:30
As77 DDR: Authenticated host alaingsm with no matching dialer map :01:03:30
As77 PAP: O AUTH-ACK id 2 len 5 :01:03:30
As77 MCB: Start :01:03:30
As77 MCB: User alaingsm Callback Number - Client ANY :01:03:30
As77 MCB: Newstate 0-INIT -> 2-WAIT_RESPONSE :01:03:30
As77 MCB: O Request Id 1 Callback Type Client-Num delay 0 :01:03:30
As77 MCB: Timeout in state WAIT_RESPONSE sending new Request 2 :01:03:32
As77 MCB: O Request Id 2 Callback Type Client-Num delay 0 :01:03:32
As77 MCB: Timeout in state WAIT_RESPONSE sending new Request 3 :01:03:34
As77 MCB: O Request Id 3 Callback Type Client-Num delay 0 :01:03:34
Async77 PPP: I MCB Response(2) id 1 len 22 :01:03:35
:Async77 MCB :01:03:35
I 2 1 0 16 2 12 F 1 44 49 30 30 34 37 38 36 38 31 30 30 36 0
As77 MCB: Received response :01:03:35
As77 MCB: Resp ignored. ID Expected 3, got id 1 :01:03:35
As77 MCB: Timeout in state WAIT_RESPONSE sending new Request 4 :01:03:36
As77 MCB: O Request Id 4 Callback Type Client-Num delay 0 :01:03:36
Async77 PPP: I MCB Response(2) id 4 len 22 :01:03:36
:Async77 MCB :01:03:36
I 2 4 0 16 2 12 F 1 44 49 30 30 34 37 38 36 38 31 30 30 36 0
As77 MCB: Received response :01:03:36
```

*You can see here that "DI00478681006" was entered at the user PC.* 01:03:36: As77 MCB: ---!  
Response CBK-Client-Num 2 18 15, addr 1-DI00478681006 01:03:36: As77 MCB: O Ack Id 5 Callback  
Type Client-Num delay 15 01:03:36: As77 MCB: Negotiated MCB with peer 01:03:36: As77 MCB:  
Newstate 2-WAIT\_RESPONSE -> 3-WAIT\_TERMINATE 01:03:37: As77 MCB: Peer terminating the link  
01:03:37: As77 MCB: Newstate 3-WAIT\_TERMINATE -> 5-WAIT\_LINKDOWN 01:03:37: As77 MCB: Link  
terminated by peer, Callback Needed 01:03:37: As77 MCB: Newstate 5-WAIT\_LINKDOWN -> 6-CALLING  
01:03:37: As77 MCB: Initiate Callback for ^->o`iB@ at DI00478681006 using Async DDR 01:03:37:  
As77 DDR: PPP callback Callback server starting to alaingsm DI00478681006 01:03:37: As77 MCB:  
Dialer callback started !--- *Call is disconnected.* 01:03:38: Modem 2/12 Mica: in modem state  
SS\_RETRAINING 01:03:38: ISDN BR3/1: RX <- DISCONNECT pd = 8 callref = 0x2F 01:03:38: Cause i =  
0x8090 - Normal call clearing 01:03:38: Progress Ind i = 0x8088 - In-band info or appropriate  
now available 01:03:38: %ISDN-6-DISCONNECT: Interface BRI3/1:1 disconnected from 478681006, call  
lasted 37 seconds 01:03:38: ISDN BR3/1: TX -> RELEASE pd = 8 callref = 0xAF 01:03:38: Cause i =  
0x8090 - Normal call clearing 01:03:38: Modem 2/12 Mica: in modem state TERMINATING 01:03:38:  
ISDN BR3/1: RX <- RELEASE\_COMP pd = 8 callref = 0x2F 01:03:39: TTY77: Async Int reset: Dropping  
DTR 01:03:39: Modem 2/12 Mica: PPP escape\_map: Tx map = FFFFFFFF, Rx map = 0 01:03:39: As77 PPP:  
Authorization required 01:03:40: Modem 2/12 Mica: in modem state IDLE 01:03:40: Modem 2/12 Mica:  
DISCONNECT after 00:00:38, due to reason (0xDF00) Host Disconnect. 01:03:40: TTY77: DSR was  
dropped 01:03:40: tty77: Modem: READY->(unknown) 01:03:41: TTY77: dropping DTR, hanging up

01:03:41: tty77: Modem: HANGUP->(unknown) 01:03:41: %LINK-5-CHANGED: Interface Async77, changed state to reset 01:03:42: TTY77: cleanup pending. Delaying DTR 01:03:43: TTY77: cleanup pending. Delaying DTR 01:03:44: TTY77: cleanup pending. Delaying DTR 01:03:44: TTY77: no timer type 0 to destroy 01:03:44: TTY77: no timer type 1 to destroy 01:03:44: TTY77: no timer type 3 to destroy 01:03:44: TTY77: no timer type 4 to destroy 01:03:44: TTY77: no timer type 2 to destroy 01:03:44: Async77: allowing modem\_process to continue hangup 01:03:45: TTY77: restoring DTR 01:03:46: %LINK-3-UPDOWN: Interface Async77, changed state to down 01:03:53: %ISDN-6-LAYER2DOWN: Layer 2 for Interface BR3/1, TEI 70 changed to down !--- Callback is started. 01:03:56: As77 DDR: re-enable timeout 01:03:56: DDR: callback triggered by dialer\_timers 01:03:56: As77 DDR: beginning callback to alaingsm DI00478681006 01:03:56: As77 DDR: Attempting to dial DI00478681006 01:03:56: CHAT77: Attempting async line dialer script 01:03:56: CHAT77: Dialing using Modem script: callback2gsm & System script: none 01:03:56: CHAT77: process started 01:03:56: CHAT77: Asserting DTR 01:03:56: CHAT77: Chat script callback2gsm started 01:03:56: CHAT77: Sending string: AT&F 01:03:56: CHAT77: Expecting string: OK 01:03:56: CHAT77: Completed match for expect: OK 01:03:56: CHAT77: Sending string: ATS29=8 01:03:56: CHAT77: Expecting string: OK 01:03:56: CHAT77: Completed match for expect: OK !--- We send DI00478681006 01:03:56: CHAT77: Sending string: AT \T<DI00478681006> 01:03:56: CHAT77: Expecting string: CONNECT 01:03:56: Modem 2/12 Mica: configured for Originate mode, with Null signaling, 0x1 tone detection. 01:03:56: Modem 2/12 Mica: received dialstring 00478681006 01:03:56: ISDN Se1/0:15: TX -> SETUP pd = 8 callref = 0x000E 01:03:56: Bearer Capability i = 0x8890214846BB 01:03:56: Channel ID i = 0xA9839F 01:03:56: Called Party Number i = 0x81, '00478681006', Plan:ISDN, Type:Unknown 01:03:56: Low Layer Compat i = 0x8890214846BB 01:03:56: ISDN Se1/0:15: RX <- CALL\_PROC pd = 8 callref = 0x800E 01:03:56: Channel ID i = 0xA9839F 01:03:56: Modem 2/12 Mica: in modem state CALL\_SETUP 01:04:02: ISDN Se1/0:15: RX <- ALERTING pd = 8 callref = 0x800E 01:04:03: ISDN Se1/0:15: RX <- CONNECT pd = 8 callref = 0x800E 01:04:03: ISDN Se1/0:15: TX -> CONNECT\_ACK pd = 8 callref = 0x000E 01:04:03: Modem 2/12 Mica: in modem state CONNECT 01:04:03: Modem 2/12 Mica: in modem state LINK 01:04:03: Modem 2/12 Mica: in modem state TRAINUP 01:04:03: Modem 2/12 Mica: in modem state EC\_NEGOTIATING 01:04:03: Modem 2/12 Mica: in modem state STEADY 01:04:03: CHAT77: Completed match for expect: CONNECT 01:04:03: CHAT77: Sending string: \c 01:04:03: CHAT77: Chat script callback2gsm finished, status = Success 01:04:03: TTY77: no timer type 1 to destroy 01:04:03: TTY77: no timer type 0 to destroy 01:04:03: Modem 2/12 Mica: CONNECT at 9600/9600 (Tx/Rx), V110, V.110, None 01:04:04: As77 PPP: Treating connection as a callout 01:04:04: Modem 2/12 Mica: PPP escape\_map: Tx map = FFFFFFFF, Rx map = 0 01:04:04: As77 PPP: Authorization required 01:04:04: %LINK-3-UPDOWN: Interface Async77, changed state to up 01:04:04: As77 DDR: Dialer statechange to up 01:04:04: As77 DDR: Copying MS callback dialstring DI00478681006 to ddb 01:04:04: DDR: Freeing callback to alaingsm DI00478681006 01:04:04: As77 DDR: Dialer call has been placed 01:04:08: Modem 2/12 Mica: PPP escape\_map: Tx map = A0000, Rx map = 0 01:04:08: As77 MCB: Initialize 01:04:08: Modem 2/12 Mica: Bad RX Frame: control = 0xE007, length = 0xD, buffer = 0x3BC6E54 01:04:09: %ISDN-6-CONNECT: Interface Serial1/0:30 is now connected to 00478681006 01:04:11: As77 PAP: I AUTH-REQ id 2 len 16 from "alaingsm" 01:04:11: As77 PAP: Authenticating peer alaingsm 01:04:11: As77 PPP: Sent PAP LOGIN Request to AAA 01:04:11: As77 PPP: Received LOGIN Response from AAA = PASS 01:04:11: As77 DDR: Remote name for alaingsm 01:04:11: As77 DDR: Authenticated host alaingsm with no matching dialer map 01:04:11: As77 PAP: O AUTH-ACK id 2 len 5 01:04:13: As77 DDR: dialer protocol up suzanne#**show ip route**

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP  
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area  
,N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1  
E2 - OSPF external type 2, E - EGP  
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area  
candidate default, U - per-user static route, o - ODR - \*  
P - periodic downloaded static route

Gateway of last resort is 172.17.243.1 to network 0.0.0.0

is subnetted, 1 subnets 172.17.0.0/24  
C 172.17.243.0 is directly connected, Ethernet0/0  
is variably subnetted, 2 subnets, 2 masks 172.31.0.0/16  
C 172.31.1.28/32 is directly connected, Async77  
C 172.31.0.0/16 is directly connected, Dialer1  
S\* 0.0.0.0/0 [1/0] via 172.17.243.1

suzanne#ping 172.31.1.28

.Type escape sequence to abort  
:Sending 5, 100-byte ICMP Echos to 172.31.1.28, timeout is 2 seconds  
!!!!  
Success rate is 100 percent (5/5), round-trip min/avg/max = 784/858/880 ms

```
#suzanne
ISDN Se1/0:15: RX <- DISCONNECT pd = 8 callref = 0x800E :01:04:49
Cause i = 0x8090 - Normal call clearing :01:04:49
ISDN-6-DISCONNECT: Interface Serial1/0:30 disconnected from% :01:04:49
call lasted 46 seconds ,00478681006
ISDN Se1/0:15: TX -> RELEASE pd = 8 callref = 0x000E :01:04:49
Modem 2/12 Mica: in modem state TERMINATING :01:04:49
ISDN Se1/0:15: RX <- RELEASE_COMP pd = 8 callref = 0x800E :01:04:49
Modem 2/12 Mica: in modem state IDLE :01:04:49
,Modem 2/12 Mica: DISCONNECT after 00:00:46 :01:04:49
.due to reason (0xDF00) Host Disconnect
TTY77: DSR was dropped :01:04:50
(tty77: Modem: READY->(unknown :01:04:50
TTY77: Async Int reset: Dropping DTR :01:04:51
Modem 2/12 Mica: PPP escape_map: Tx map = FFFFFFFF, Rx map = 0 :01:04:51
As77 PPP: Authorization required :01:04:51
TTY77: dropping DTR, hanging up :01:04:51
(tty77: Modem: HANGUP->(unknown :01:04:51
TTY77: cleanup pending. Delaying DTR :01:04:52
LINK-5-CHANGED: Interface Async77, changed state to reset% :01:04:53
TTY77: cleanup pending. Delaying DTR :01:04:53
TTY77: cleanup pending. Delaying DTR :01:04:54
TTY77: cleanup pending. Delaying DTR :01:04:55
TTY77: no timer type 0 to destroy :01:04:56
TTY77: no timer type 1 to destroy :01:04:56
TTY77: no timer type 3 to destroy :01:04:56
TTY77: no timer type 4 to destroy :01:04:56
TTY77: no timer type 2 to destroy :01:04:56
Async77: allowing modem_process to continue hangup :01:04:56
TTY77: restoring DTR :01:04:56
LINK-3-UPDOWN: Interface Async77, changed state to down% :01:04:58
As77 DDR: re-enable timeout :01:05:08
```

## V.110 الاتصال المودم باستخدام

```
Modem callback using default of MICA (modem dialing US robotics). suzanne# 01:06:21: ISDN ---!
Se1/0:15: RX <- SETUP pd = 8 callref = 0x6D73 01:06:21: Sending Complete 01:06:21: Bearer
Capability i = 0x9090A3 01:06:21: Channel ID i = 0xA18387 01:06:21: Progress Ind i = 0x8183 -
Origination address is non-ISDN 01:06:21: Calling Party Number i = 0xA1, '6020', Plan:ISDN,
Type:National 01:06:21: Called Party Number i = 0x81, '214', Plan:ISDN, Type:Unknown 01:06:21:
ISDN Se1/0:15: TX -> CALL_PROC pd = 8 callref = 0xED73 01:06:21: Channel ID i = 0xA98387
01:06:21: ISDN Se1/0:15: TX -> ALERTING pd = 8 callref = 0xED73 01:06:21: ISDN Se1/0:15: TX ->
CONNECT pd = 8 callref = 0xED73 01:06:21: ISDN Se1/0:15: RX <- CONNECT_ACK pd = 8 callref =
0x6D73 01:06:21: ISDN Se1/0:15: CALL_PROGRESS: CALL_CONNECTED call id 0x1A, bchan 6, dsl 0
01:06:21: Modem 2/13 Mica: configured for Answer mode, with Null signaling, 0x0 tone detection.
01:06:21: Modem 2/13 Mica: in modem state CALL_SETUP 01:06:22: Modem 2/13 Mica: in modem state
CONNECT 01:06:26: Modem 2/13 Mica: in modem state LINK 01:06:27: %ISDN-6-CONNECT: Interface
Serial1/0:6 is now connected to 6020 01:06:34: Modem 2/13 Mica: in modem state TRAINUP 01:06:36:
Modem 2/13 Mica: in modem state EC_NEGOTIATING 01:06:36: Modem 2/13 Mica: in modem state STEADY
01:06:36: Modem 2/13 Mica: CONNECT at 9600/9600 (Tx/Rx), V34+, LAPM, None 01:06:37: TTY78: DSR
came up 01:06:37: tty78: Modem: IDLE->(unknown) 01:06:37: TTY78: EXEC creation 01:06:37: TTY78:
set timer type 10, 30 seconds 01:06:40: TTY78: Autoselect(2) sample 7E 01:06:40: TTY78:
Autoselect(2) sample 7EFF 01:06:40: TTY78: Autoselect(2) sample 7EFF7D 01:06:40: TTY78:
Autoselect(2) sample 7EFF7D23 01:06:40: TTY78 Autoselect cmd: ppp negotiate 01:06:40: TTY78:
EXEC creation 01:06:40: TTY78: create timer type 1, 600 seconds 01:06:40: TTY78: destroy timer
type 1 01:06:40: TTY78: no timer type 0 to destroy 01:06:40: As78 DDR: Dialer received incoming
```



call from <unknown> 01:06:42: %LINK-3-UPDOWN: Interface Async78, changed state to up 01:06:42:  
As78 DDR: Dialer statechange to up 01:06:42: As78 DDR: Dialer received incoming call from  
<unknown> 01:06:42: As78 PPP: Treating connection as a callin 01:06:42: As78 PPP: Authorization  
required 01:06:43: Modem 2/13 Mica: PPP escape\_map: Tx map = FFFFFFFF, Rx map = 0 01:06:43: As78  
PPP: Authorization required 01:06:47: Modem 2/13 Mica: PPP escape\_map: Tx map = A0000, Rx map =  
0 01:06:47: As78 MCB: Initialize 01:06:47: MCB: Flush 01:06:47: Modem 2/13 Mica: Bad RX Frame:  
control = 0xE007, length = 0xE, buffer = 0x3BC9014 01:06:50: As78 PAP: I AUTH-REQ id 2 len 16  
from "alainmod" 01:06:50: As78 PAP: Authenticating peer alainmod 01:06:50: As78 PPP: Sent PAP  
LOGIN Request to AAA 01:06:50: As78 PPP: Received LOGIN Response from AAA = PASS 01:06:50: As78  
DDR: Remote name for alainmod 01:06:50: As78 DDR: Authenticated host alainmod with no matching  
dialer map 01:06:50: As78 PAP: O AUTH-ACK id 2 len 5 01:06:50: As78 MCB: Start 01:06:50: As78  
MCB: User alainmod Callback Number - Client ANY 01:06:50: As78 MCB: Newstate 0-INIT -> 2-  
WAIT\_RESPONSE 01:06:50: As78 MCB: O Request Id 1 Callback Type Client-Num delay 0 01:06:52: As78  
MCB: Timeout in state WAIT\_RESPONSE sending new Request 2 01:06:52: As78 MCB: O Request Id 2  
Callback Type Client-Num delay 0 01:06:54: As78 MCB: Timeout in state WAIT\_RESPONSE sending new  
Request 3 01:06:54: As78 MCB: O Request Id 3 Callback Type Client-Num delay 0 01:06:54: Async78  
PPP: I MCB Response(2) id 1 len 17 01:06:54: Async78 MCB: I 2 1 0 11 2 D F 1 5A 44 54 20 36 30  
32 30 0 01:06:54: As78 MCB: Received response 01:06:54: As78 MCB: Resp ignored. ID Expected 3,  
got id 1 01:06:56: As78 MCB: Timeout in state WAIT\_RESPONSE sending new Request 4 01:06:56: As78  
MCB: O Request Id 4 Callback Type Client-Num delay 0 01:06:56: Async78 PPP: I MCB Response(2) id  
4 len 17 01:06:56: Async78 MCB: I 2 4 0 11 2 D F 1 5A 44 54 20 36 30 32 30 0 01:06:56: As78 MCB:  
Received response 01:06:56: As78 MCB: Response CBK-Client-Num 2 13 15, addr 1-ZDT 6020 01:06:56:  
As78 MCB: O Ack Id 5 Callback Type Client-Num delay 15 01:06:56: As78 MCB: Negotiated MCB with  
peer 01:06:56: As78 MCB: Newstate 2-WAIT\_RESPONSE -> 3-WAIT\_TERMINATE 01:06:56: As78 MCB: Peer  
terminating the link 01:06:56: As78 MCB: Newstate 3-WAIT\_TERMINATE -> 5-WAIT\_LINKDOWN 01:06:56:  
As78 MCB: Link terminated by peer, Callback Needed 01:06:56: As78 MCB: Newstate 5-WAIT\_LINKDOWN  
-> 6-CALLING 01:06:56: As78 MCB: Initiate Callback for ^->o`iB@ at ZDT 6020 using Async DDR  
01:06:56: As78 DDR: PPP callback Callback server starting to alainmod ZDT 6020 01:06:56: As78  
MCB: Dialer callback started 01:06:57: Modem 2/13 Mica: in modem state TERMINATING 01:06:57:  
Modem 2/13 Mica: in modem state IDLE 01:06:57: %ISDN-6-DISCONNECT: Interface Serial1/0:6  
disconnected from 6020, call lasted 36 seconds 01:06:57: ISDN Se1/0:15: TX -> DISCONNECT pd = 8  
callref = 0xED73 01:06:57: Cause i = 0x8090 - Normal call clearing 01:06:57: Modem 2/13 Mica:  
DISCONNECT after 00:00:35, due to reason (0x8220) EC rcvd DISC frame. 01:06:57: TTY78: DSR was  
dropped 01:06:57: tty78: Modem: READY->(unknown) 01:06:57: ISDN Se1/0:15: RX <- RELEASE pd = 8  
callref = 0x6D73 01:06:57: ISDN Se1/0:15: TX -> RELEASE\_COMP pd = 8 callref = 0xED73 01:06:58:  
TTY78: dropping DTR, hanging up 01:06:58: TTY78: Async Int reset: Dropping DTR 01:06:58: tty78:  
Modem: HANGUP->(unknown) 01:06:59: TTY78: cleanup pending. Delaying DTR 01:06:59: Modem 2/13  
Mica: PPP escape\_map: Tx map = FFFFFFFF, Rx map = 0 01:06:59: As78 PPP: Authorization required  
01:07:00: %LINK-5-CHANGED: Interface Async78, changed state to reset 01:07:00: TTY78: cleanup  
pending. Delaying DTR 01:07:01: TTY78: cleanup pending. Delaying DTR 01:07:02: TTY78: cleanup  
pending. Delaying DTR 01:07:03: TTY78: no timer type 0 to destroy 01:07:03: TTY78: no timer type  
1 to destroy 01:07:03: TTY78: no timer type 3 to destroy 01:07:03: TTY78: no timer type 4 to  
destroy 01:07:03: TTY78: no timer type 2 to destroy 01:07:03: Async78: allowing modem\_process to  
continue hangup 01:07:03: TTY78: restoring DTR 01:07:05: %LINK-3-UPDOWN: Interface Async78,  
changed state to down 01:07:15: As78 DDR: re-enable timeout !--- Callback start. 01:07:15: DDR:  
callback triggered by dialer\_timers 01:07:15: As78 DDR: beginning callback to alainmod ZDT 6020  
01:07:15: As78 DDR: Attempting to dial ZDT 6020 01:07:15: CHAT78: Attempting async line dialer  
script 01:07:15: CHAT78: Dialing using Modem script: callback2gsm & System script: none  
01:07:15: CHAT78: process started 01:07:15: CHAT78: Asserting DTR 01:07:15: CHAT78: Chat script  
callback2gsm started 01:07:15: CHAT78: Sending string: AT&F 01:07:15: CHAT78: Expecting string:  
OK 01:07:15: CHAT78: Completed match for expect: OK 01:07:15: CHAT78: Sending string: AT529=8  
01:07:15: CHAT78: Expecting string: OK 01:07:15: CHAT78: Completed match for expect: OK !--- The  
user entered "ZDT 6020". This is what we send: 01:07:15: CHAT78: Sending string: AT \T<ZDT 6020>  
01:07:15: CHAT78: Expecting string: CONNECT 01:07:15: Modem 2/13 Mica: configured for Originate  
mode, with Null signaling, 0x1 tone detection. 01:07:15: Modem 2/13 Mica: received dialstring  
6020 01:07:15: ISDN Se1/0:15: TX -> SETUP pd = 8 callref = 0x000F 01:07:15: Bearer Capability i  
= 0x9090A3 01:07:15: Channel ID i = 0xA9839F 01:07:15: Called Party Number i = 0x81, '6020',  
Plan:ISDN, Type:Unknown 01:07:15: ISDN Se1/0:15: RX <- CALL\_PROC pd = 8 callref = 0x800F  
01:07:15: Channel ID i = 0xA9839F 01:07:15: ISDN Se1/0:15: RX <- ALERTING pd = 8 callref =  
0x800F 01:07:15: Modem 2/13 Mica: in modem state CALL\_SETUP 01:07:16: Modem 2/13 Mica: Detected  
Dial tone 01:07:17: ISDN Se1/0:15: RX <- CONNECT pd = 8 callref = 0x800F 01:07:17: Progress Ind  
i = 0x8182 - Destination address is non-ISDN 01:07:17: Connected Number i = 0xA136303230  
01:07:17: ISDN Se1/0:15: TX -> CONNECT\_ACK pd = 8 callref = 0x000F 01:07:17: Modem 2/13 Mica: in  
modem state CONNECT 01:07:19: Modem 2/13 Mica: in modem state LINK 01:07:23: %ISDN-6-CONNECT:

Interface Serial1/0:30 is now connected to 6020 01:07:26: Modem 2/13 Mica: in modem state  
TRAINUP 01:07:28: Modem 2/13 Mica: in modem state EC\_NEGOTIATING 01:07:28: Modem 2/13 Mica: in  
modem state STEADY 01:07:28: CHAT78: Completed match for expect: CONNECT 01:07:28: CHAT78:  
Sending string: \c 01:07:28: CHAT78: Chat script callback2gsm finished, status = Success  
01:07:28: TTY78: no timer type 1 to destroy 01:07:28: TTY78: no timer type 0 to destroy  
01:07:28: Modem 2/13 Mica: CONNECT at 33600/31200 (Tx/Rx), V34+, LAPM, None 01:07:28: As78 PPP:  
Treating connection as a callout 01:07:28: Modem 2/13 Mica: PPP escape\_map: Tx map = FFFFFFFF,  
Rx map = 0 01:07:28: As78 PPP: Authorization required 01:07:28: %LINK-3-UPDOWN: Interface  
Async78, changed state to up 01:07:28: As78 DDR: Dialer statechange to up 01:07:28: As78 DDR:  
Copying MS callback dialstring ZDT 6020 to ddb 01:07:28: DDR: Freeing callback to alainmod ZDT  
6020 01:07:28: As78 DDR: Dialer call has been placed 01:07:29: Modem 2/13 Mica: PPP escape\_map:  
Tx map = A0000, Rx map = 0 01:07:29: As78 MCB: Initialize 01:07:29: As78 PAP: I AUTH-REQ id 1  
len 16 from "alainmod" 01:07:29: As78 PAP: Authenticating peer alainmod 01:07:29: As78 PPP: Sent  
PAP LOGIN Request to AAA 01:07:29: As78 PPP: Received LOGIN Response from AAA = PASS 01:07:29:  
As78 DDR: Remote name for alainmod 01:07:29: As78 DDR: Authenticated host alainmod with no  
matching dialer map 01:07:29: As78 PAP: O AUTH-ACK id 1 len 5 01:07:29: As78 DDR: dialer  
protocol up 01:07:29: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async78, changed state to

up suzanne#**show ip route**  
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP  
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area  
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2  
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP  
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area  
candidate default, U - per-user static route, o - ODR - \*  
P - periodic downloaded static route  
Gateway of last resort is 172.17.243.1 to network 0.0.0.0  
is subnetted, 1 subnets 172.17.0.0/24  
C 172.17.243.0 is directly connected, Ethernet0/0  
is variably subnetted, 2 subnets, 2 masks 172.31.0.0/16  
C 172.31.1.19/32 is directly connected, Async78  
C 172.31.0.0/16 is directly connected, Dialer1  
S\* 0.0.0.0/0 [1/0] via 172.17.243.1

suzanne#**ping 172.31.1.19**

.Type escape sequence to abort  
:Sending 5, 100-byte ICMP Echos to 172.31.1.19, timeout is 2 seconds  
!!!!  
Success rate is 100 percent (5/5), round-trip min/avg/max = 356/372/396 ms

#suzanne  
Modem 2/13 Mica: in modem state TERMINATING :01:08:08  
Modem 2/13 Mica: in modem state IDLE :01:08:08  
(Modem 2/13 Mica: DISCONNECT after 00:00:51, due to reason (0x8220 :01:08:08  
.EC rcvd DISC frame  
,ISDN-6-DISCONNECT: Interface Serial1/0:30 disconnected from 6020% :01:08:08  
call lasted 51 seconds  
ISDN Se1/0:15: TX -> DISCONNECT pd = 8 callref = 0x000F :01:08:08  
Cause i = 0x8090 - Normal call clearing :01:08:08  
ISDN Se1/0:15: RX <- RELEASE pd = 8 callref = 0x800F :01:08:08  
ISDN Se1/0:15: TX -> RELEASE\_COMP pd = 8 callref = 0x000F :01:08:08  
TTY78: DSR was dropped :01:08:09  
(tty78: Modem: READY->(unknown :01:08:09  
,LINEPROTO-5-UPDOWN: Line protocol on Interface Async78% :01:08:09  
changed state to down  
TTY78: dropping DTR, hanging up :01:08:10  
TTY78: Async Int reset: Dropping DTR :01:08:10  
(tty78: Modem: HANGUP->(unknown :01:08:10  
Modem 2/13 Mica: PPP escape\_map: Tx map = FFFFFFFF, Rx map = 0 :01:08:10  
As78 PPP: Authorization required :01:08:10  
TTY78: cleanup pending. Delaying DTR :01:08:11  
LINK-5-CHANGED: Interface Async78, changed state to reset% :01:08:12  
TTY78: cleanup pending. Delaying DTR :01:08:12  
TTY78: cleanup pending. Delaying DTR :01:08:13

TTY78: cleanup pending. Delaying DTR :01:08:14  
TTY78: no timer type 0 to destroy :01:08:15  
TTY78: no timer type 1 to destroy :01:08:15  
TTY78: no timer type 3 to destroy :01:08:15  
TTY78: no timer type 4 to destroy :01:08:15  
TTY78: no timer type 2 to destroy :01:08:15  
Async78: allowing modem\_process to continue hangup :01:08:15  
TTY78: restoring DTR :01:08:15  
LINK-3-UPDOWN: Interface Async78, changed state to down% :01:08:17  
As78 DDR: re-enable timeout :01:08:27

## V.110 باستخدام ISDN رد اتصال

*Receive call.* suzanne# 01:09:00: ISDN Sel/0:15: RX <- SETUP pd = 8 callref = 0x6F28 ---!  
01:09:00: Sending Complete 01:09:00: Bearer Capability i = 0x8890 01:09:00: Channel ID i =  
0xA18388 01:09:00: Calling Party Number i = 0xA1, '6136', Plan:ISDN, Type:National 01:09:00:  
Called Party Number i = 0x81, '214', Plan:ISDN, Type:Unknown 01:09:00: %LINK-3-UPDOWN: Interface  
Serial1/0:7, changed state to up 01:09:00: ISDN Sel/0:15: TX -> CALL\_PROC pd = 8 callref =  
0xEF28 01:09:00: Channel ID i = 0xA98388 01:09:00: ISDN Sel/0:15: TX -> CONNECT pd = 8 callref =  
0xEF28 01:09:00: Channel ID i = 0xA98388 01:09:00: Sel/0:7 PPP: Treating connection as a callin  
01:09:00: Sel/0:7 PPP: Authorization required 01:09:00: ISDN Sel/0:15: RX <- CONNECT\_ACK pd = 8  
callref = 0x6F28 01:09:00: ISDN Sel/0:15: CALL\_PROGRESS: CALL\_CONNECTED call id 0x1B, bchan 7,  
dsl 0 01:09:01: Sel/0:7 PPP: Authorization required 01:09:01: Sel/0:7 MCB: Initialize 01:09:01:  
Sel/0:7 CHAP: O CHALLENGE id 1 len 28 from "suzanne" 01:09:01: Sel/0:7 CHAP: I RESPONSE id 1 len  
30 from "alainisdn" 01:09:01: Sel/0:7 PPP: Sent CHAP LOGIN Request to AAA 01:09:01: Sel/0:7 PPP:  
Received LOGIN Response from AAA = PASS 01:09:01: Sel/0:7 DDR: Remote name for alainisdn  
01:09:01: Sel/0:7 CHAP: O SUCCESS id 1 len 4 01:09:01: Sel/0:7 DDR: PPP callback Callback server  
starting to alainisdn 6136 01:09:01: Sel/0:7 DDR: disconnecting call 01:09:01: %ISDN-6-CONNECT:  
Interface Serial1/0:7 is now connected to 6136 alainisdn 01:09:01: ISDN Sel/0:15: TX ->  
DISCONNECT pd = 8 callref = 0xEF28 01:09:01: Cause i = 0x8090 - Normal call clearing 01:09:01:  
ISDN Sel/0:15: RX <- RELEASE pd = 8 callref = 0x6F28 01:09:01: %LINK-3-UPDOWN: Interface  
Serial1/0:7, changed state to down 01:09:01: ISDN Sel/0:15: TX -> RELEASE\_COMP pd = 8 callref =  
0xEF28 01:09:01: Sel/0:7 DDR: disconnecting call 01:09:02: ISDN Sel/0:15: RX <- SETUP pd = 8  
callref = 0x70DF 01:09:02: Sending Complete 01:09:02: Bearer Capability i = 0x8890 01:09:02:  
Channel ID i = 0xA18389 01:09:02: Calling Party Number i = 0xA1, '6136', Plan:ISDN,  
Type:National 01:09:02: Called Party Number i = 0x81, '214', Plan:ISDN, Type:Unknown 01:09:02:  
%LINK-3-UPDOWN: Interface Serial1/0:8, changed state to up 01:09:02: ISDN Sel/0:15: TX ->  
CALL\_PROC pd = 8 callref = 0xF0DF 01:09:02: Channel ID i = 0xA98389 01:09:02: ISDN Sel/0:15: TX  
-> CONNECT pd = 8 callref = 0xF0DF 01:09:02: Channel ID i = 0xA98389 01:09:02: Sel/0:8 PPP:  
Treating connection as a callin 01:09:02: Sel/0:8 PPP: Authorization required 01:09:02: ISDN  
Sel/0:15: RX <- CONNECT\_ACK pd = 8 callref = 0x70DF 01:09:02: ISDN Sel/0:15: CALL\_PROGRESS:  
CALL\_CONNECTED call id 0x1C, bchan 8, dsl 0 01:09:02: Sel/0:8 PPP: Authorization required  
01:09:03: Sel/0:8 MCB: Initialize 01:09:03: Sel/0:8 CHAP: O CHALLENGE id 1 len 28 from "suzanne"  
01:09:03: Sel/0:8 CHAP: I RESPONSE id 1 len 30 from "alainisdn" 01:09:03: Sel/0:8 PPP: Sent CHAP  
LOGIN Request to AAA 01:09:03: Sel/0:8 PPP: Received LOGIN Response from AAA = PASS 01:09:03:  
Sel/0:8 DDR: Remote name for alainisdn 01:09:03: Sel/0:8 CHAP: O SUCCESS id 1 len 4 01:09:03:  
Sel/0:8 DDR: callback to alainisdn already started 01:09:03: Sel/0:8 DDR: disconnecting call  
01:09:03: %ISDN-6-CONNECT: Interface Serial1/0:8 is now connected to 6136 alainisdn 01:09:03:  
ISDN Sel/0:15: TX -> DISCONNECT pd = 8 callref = 0xF0DF 01:09:03: Cause i = 0x8090 - Normal call  
clearing 01:09:03: ISDN Sel/0:15: RX <- RELEASE pd = 8 callref = 0x70DF 01:09:03: %LINK-3-  
UPDOWN: Interface Serial1/0:8, changed state to down 01:09:03: ISDN Sel/0:15: TX -> RELEASE\_COMP  
pd = 8 callref = 0xF0DF 01:09:03: Sel/0:8 DDR: disconnecting call !--- *Callback Start* 01:09:16:  
DDR: Callback timer expired 01:09:16: Di1 DDR: beginning callback to alainisdn 6136 01:09:16:  
Sel/0:15 DDR: rotor dialout [priority] 01:09:16: Sel/0:15 DDR: Attempting to dial 6136 01:09:16:  
ISDN Sel/0:15: TX -> SETUP pd = 8 callref = 0x0010 01:09:16: Bearer Capability i = 0x8890  
01:09:16: Channel ID i = 0xA9839F 01:09:16: Called Party Number i = 0x81, '6136', Plan:ISDN,  
Type:Unknown 01:09:16: ISDN Sel/0:15: RX <- CALL\_PROC pd = 8 callref = 0x8010 01:09:16: Channel  
ID i = 0xA9839F 01:09:16: ISDN Sel/0:15: RX <- ALERTING pd = 8 callref = 0x8010 01:09:16: ISDN  
Sel/0:15: RX <- CONNECT pd = 8 callref = 0x8010 01:09:16: Connected Number i = 0xA136313336  
01:09:16: %LINK-3-UPDOWN: Interface Serial1/0:30, changed state to up 01:09:16: DDR: Freeing  
callback to alainisdn 6136 01:09:16: ISDN Sel/0:15: TX -> CONNECT\_ACK pd = 8 callref = 0x0010  
01:09:16: Sel/0:30 PPP: Treating connection as a callout 01:09:16: Sel/0:30 PPP: Authorization

```

required 01:09:16: Ser1/0:30 MCB: Initialize 01:09:16: Ser1/0:30 CHAP: I CHALLENGE id 7 len 30
from "alainisdn" 01:09:16: Ser1/0:30 PPP: Sent CHAP SENDAUTH Request to AAA 01:09:16: Ser1/0:30
PPP: Received SENDAUTH Response from AAA = PASS 01:09:16: Ser1/0:30 CHAP: O RESPONSE id 7 len 28
from "suzanne" 01:09:16: Ser1/0:30 CHAP: I SUCCESS id 7 len 4 01:09:16: Ser1/0:30 PPP: Sent LCP
AUTHOR Request to AAA 01:09:16: Ser1/0:30 PPP: Sent IPCP AUTHOR Request to AAA 01:09:16: Ser1/0:30
LCP: Received AAA AUTHOR Response = PASS 01:09:16: Ser1/0:30 IPCP: Received AAA AUTHOR Response =
PASS 01:09:16: Ser1/0:30 DDR: dialer protocol up 01:09:17: %LINEPROTO-5-UPDOWN: Line protocol on
Interface Serial1/0:30, changed state to up 01:09:22: %ISDN-6-CONNECT: Interface Serial1/0:30 is
now connected to 6136 alainisdn suzanne# suzanne#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
candidate default, U - per-user static route, o - ODR - *
P - periodic downloaded static route

Gateway of last resort is 172.17.243.1 to network 0.0.0.0

    is subnetted, 1 subnets 172.17.0.0/24
    C 172.17.243.0 is directly connected, Ethernet0/0
is variably subnetted, 2 subnets, 2 masks 172.31.0.0/16
    C 172.31.1.2/32 is directly connected, Dialer1
    C 172.31.0.0/16 is directly connected, Dialer1
    S* 0.0.0.0/0 [1/0] via 172.17.243.1

suzanne#ping 172.31.1.2

.Type escape sequence to abort
:Sending 5, 100-byte ICMP Echos to 172.31.1.2, timeout is 2 seconds
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 32/34/36 ms
#suzanne

```

## معلومات ذات صلة

- [صفحة دعم تقنية الطلب والوصول](#)
- [الدعم التقني والمستندات - Cisco Systems](#)

ةمچرتل هذه لوج

ةللأل تاي نقتل نم ةومچم مادختساب دن تسمل اذه Cisco تچرت  
ملاعلاء انءمچ يف نيمدختسمل معدى وتحم مي دقتل ةيرشبل او  
امك ةقيد نوك تنل ةللأل ةمچرت لصف انءمچم اءمچرئى. ةصاأل مءتبل ب  
Cisco ةلخت. فرتحم مچرت مءم دقئى ةللأل ةى فارتحال ةمچرتل عم لاعل او  
ىل اءمءاد ةوچرلاب ي صوءو تامچرتل هذه ةقदन ةءى لوءئسم Cisco  
Systems (رفوتم طبارل) ىل صأل اءمچرئى لءنل دن تسمل