

Negociación del identificador del punto final de la terminal BRI de ISDN

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[Introducción](#)

Este documento proporciona una configuración de muestra para el Basic Rate Interface (BRI) ISDN, e ilustra el comportamiento del router Cisco con respecto al proceso de negociación del identificador de punto final de terminal (TEI).

[prerrequisitos](#)

[Requisitos](#)

No hay requisitos específicos para este documento.

[Componentes Utilizados](#)

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- ¿Cisco IOS?? Software Release 12.2(6).
- Todas las plataformas de hardware.

Nota: Presentaron al **comando isdn tei-negotiation preserve** en los Cisco IOS Software Releases 12.2(6) y 12.2(6)T.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente

de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

Convenciones

Para obtener más información sobre las convenciones del documento, consulte [Convenciones de Consejos Técnicos de Cisco](#).

Antecedentes

En algunos países europeos (por ejemplo, Bélgica y Holanda), la práctica usual es que razona la compañía telefónica (compañía telefónica) desconecta ISDN Layer1 cuando la línea BRI no ha sido activa por cierto período, debido al ahorro de energía. Estas alternativas son posibles:

- Los TEI que se han asignado ya pueden ser preservados después de que el Layer 1 pare el agitar.
- El Cisco IOS Software se puede configurar para renegociar el TEI cada vez que la capa 1 cambie.

Configurar

En esta sección encontrará la información para configurar las funciones descritas en este documento.

Nota: Para obtener información adicional sobre los comandos que se utilizan en este documento, use la Command Lookup Tool (solo para clientes [registrados](#)).

Diagrama de la red

En este documento, se utiliza esta configuración de red:

En este ejemplo, estamos utilizando a dos Cisco 2500 Router con las líneas BRI.

Configuraciones

En este documento, se utilizan estas configuraciones:

- kevin
- krimson

kevin

```
kevin#show running-config ! version 12.2 service
timestamps debug datetime msec service timestamps log
datetime msec hostname kevin ! username krimson password
! isdn switch-type basic-net3 ! interface BRI0 no ip
address encapsulation ppp dialer rotary-group 1 dialer-
group 1 isdn switch-type basic-net3 isdn tei-negotiation
preserve no cdp enable ppp authentication chap !
interface Dialer1 ip address 10.9.8.2 255.255.255.0
encapsulation ppp dialer in-band dialer map ip 10.9.8.1
```

```
name krimson 027208196 dialer-group 1 no cdp enable ppp
authentication chap ! dialer-list 1 protocol ip permit !
line con 0 exec-timeout 0 0 line aux 0 line vty 0 4
exec-timeout 0 0 password login ! end
```

krimson

```
krimson#show running-config ! version 12.2 ! service
timestamps debug datetime msec service timestamps log
datetime msec ! hostname krimson ! username kevin
password ! isdn switch-type basic-net3 ! interface BRI0
no ip address encapsulation ppp no ip route-cache no ip
mroute-cache no keepalive dialer rotary-group 1 isdn
switch-type basic-net3 no fair-queue no cdp enable ppp
authentication chap ! interface Dialer1 ip address
10.9.8.1 255.255.255.0 encapsulation ppp no ip route-
cache no ip mroute-cache load-interval 30 no keepalive
dialer in-band dialer map ip 10.9.8.2 name kevin
027202094 dialer-group 1 no fair-queue no cdp enable ppp
authentication chap ! dialer-list 1 protocol ip permit !
line con 0 exec-timeout 0 0 line aux 0 line vty 0 4
exec-timeout 0 0 password login ! end
```

Verificación

En esta sección encontrará información que puede utilizar para confirmar que su configuración esté funcionando correctamente.

La herramienta [Output Interpreter](#) (sólo para clientes [registrados](#)) permite utilizar algunos comandos “show” y ver un análisis del resultado de estos comandos.

- ¿muestre el isdn status??? muestra el estado de todas las interfaces de ISDN

```
kevin#show isdn status Global ISDN Switchtype = basic-net3 ISDN BRI0 interface dsl 0, interface
ISDN Switchtype = basic-net3 Layer 1 Status: DEACTIVATED Layer 2 Status: Layer 2 NOT Activated
!--- TEI is removed Layer 3 Status: 0 Active Layer 3 Call(s) Active dsl 0 CCBs = 0 The Free
Channel Mask: 0x3 Number of L2 Discards = 0, L2 Session ID = 10 Total Allocated ISDN CCBs = 0
```

Troubleshooting

En esta sección encontrará información que puede utilizar para solucionar problemas de configuración.

Comandos para resolución de problemas

Nota: [Antes de ejecutar un comando de depuración, consulte Información importante sobre comandos de depuración.](#)

- **haga el debug de la capa del link de datos isdn q921???**displays (los procedimientos de acceso de la capa 2) que están ocurriendo en el router en canal D (LAPD) de su interfaz de ISDN.
- **haga el debug de la información isdn q931???**displays sobre la configuración de la llamada y cierre de las conexiones de red ISDN (capa 3), entre el router local (lado del usuario) y la red.
- **¿debug isdn events???** acontecimientos de ISDN de las visualizaciones que ocurren en el lado del usuario (en el router) de la interfaz de ISDN.
- **¿bri del debug???** visualiza la información de debugging en la actividad de ruteo del ISDN

BRI.

Aquí está la salida de los debugs en el kevin:

```
kevin#
*Mar 1 03:04:14.235: BRI: write_sid: scp = 0, wrote = 92
*Mar 1 03:04:14.235: BRI: write_sid: scp = 80, wrote = 93
*Mar 1 03:04:14.239: BRI0: DEACTIVATED, state F1, event LSD
*Mar 1 03:04:14.243: BRI: write_sid: scp = 0, wrote = 1B
*Mar 1 03:04:14.243: BRI: write_sid: scp = 0, wrote = 20
*Mar 1 03:04:14.243: BRI: write_sid: scp = 0, wrote = 92
*Mar 1 03:04:14.247: BRI: write_sid: scp = A0, wrote = 93
*Mar 1 03:04:14.247: BRI0: DEACTIVATED, state F3, event AP
*Mar 1 03:04:14.251: BRI: write_sid: scp = 0, wrote = 3
*Mar 1 03:04:14.255: ISDN BR0: Recvd MPH_IIC_IND from L1
*Mar 1 03:04:14.263: BRI: write_sid: scp = 0, wrote = 92
*Mar 1 03:04:14.263: BRI: write_sid: scp = E0, wrote = 93
*Mar 1 03:04:14.267: BRI0: PENDING, state F7, event AI
*Mar 1 03:04:14.267: BRI: Received activation indication.
*Mar 1 03:04:14.271: Flush all frames in the queue if any
*Mar 1 03:04:14.275: ISDN BR0: L1 is IF_ACTIVE
*Mar 1 03:04:14.275: ISDN BR0 EVENT: isdn_sw_cstate: State = 4, Old State = 4
*Mar 1 03:04:14.279: ISDN BR0: Incoming call id = 0x0030, dsl 0
*Mar 1 03:04:14.319: ISDN BR0: TX -> IDREQ ri=65279 ai=127
*Mar 1 03:04:14.323: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:04:14.355: ISDN BR0: RX <- IDASSN ri=65279 ai=66
*Mar 1 03:04:14.375: ISDN BR0: TX -> SABMEp c/r=0 sapi=0 tei=66
*Mar 1 03:04:14.379: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:04:14.399: ISDN BR0: RX <- UI c/r=1 sapi=0 tei=127
i=0x08011C05A1040288901801896C0A218332373230383139367009A13237323032303934
*Mar 1 03:04:14.435: SETUP pd = 8 callref = 0x1C
*Mar 1 03:04:14.443: Sending Complete
*Mar 1 03:04:14.443: Bearer Capability i = 0x8890
*Mar 1 03:04:14.451: Channel ID i = 0x89
*Mar 1 03:04:14.455: Calling Party Number i = 0x21, 0x83,
'27208196', Plan:ISDN, Type:National
*Mar 1 03:04:14.475: Called Party Number i = 0xA1, '27202094',
Plan:ISDN, Type:National
*Mar 1 03:04:14.495: ISDN BR0: RX <- UAf c/r=0 sapi=0 tei=66
*Mar 1 03:04:14.503: %ISDN-6-LAYER2UP: Layer 2 for Interface BR0, TEI 66
changed to up
*Mar 1 03:04:14.515: CCBRI_Go Fr L3 pkt (Len=35) :
*Mar 1 03:04:14.515: 5 1 9C 90 A1 4 2 88 90 18 1 89 6C A 21 83 32 37 32 30
38 31 39 36 70 9 A1 32 37 32 30 32 30 39 34
*Mar 1 03:04:14.527:
*Mar 1 03:04:14.531: ISDN BR0: Incoming call id = 0x0031, dsl 0
*Mar 1 03:04:14.535: ISDN BR0: LIF_EVENT: ces/callid 1/0x31
HOST_INCOMING_CALL
*Mar 1 03:04:14.543: ISDN BR0: HOST_INCOMING_CALL: (non-POTS) DATA
*Mar 1 03:04:14.543: ISDN BR0: HOST_INCOMING_CALL: (1) call_type = DATA
*Mar 1 03:04:14.547: ISDN BR0: HOST_INCOMING_CALL: voice_answer_data =
FALSE call type is DATA
*Mar 1 03:04:14.551: ISDN BR0: Event: Received a DATA call from 27208196
on B1 at 64 Kb/s
*Mar 1 03:04:14.551: ISDN BR0: Event: Accepting the call id 0x31
*Mar 1 03:04:14.555: ISDN BR0: RM returned call_type 0 resource type 0
response 1
*Mar 1 03:04:14.559: CCBRI_Go Fr Host InPkgInfo (Len=9) :
*Mar 1 03:04:14.563: 7 0 1 0 31 3 18 1 89
*Mar 1 03:04:14.567:
*Mar 1 03:04:14.575: ISDN BR0: isdn_send_connect(): msg 4, call id 0x31,
ces 1 bchan 0, call type DATA
*Mar 1 03:04:14.579: BRI: enable channel B1
*Mar 1 03:04:14.579: %LINK-3-UPDOWN: Interface BRI0:1, changed state to up
```

```

*Mar 1 03:04:14.591: ISDN: get_isdn_service_state(): idb 0x230B74 bchan 2
is_isdn 1 Not a Pri
*Mar 1 03:04:14.595: CCBRI_Go Fr Host InPkgInfo (Len=6) :
*Mar 1 03:04:14.599: 4 0 1 0 31 0
*Mar 1 03:04:14.603:
*Mar 1 03:04:14.615: ISDN BR0: TX -> INFOc sapi=0 tei=66 ns=0 nr=0
i=0x08019C02180189
*Mar 1 03:04:14.627: CALL_PROC pd = 8 callref = 0x9C
*Mar 1 03:04:14.631: Channel ID i = 0x89
*Mar 1 03:04:14.639: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:04:14.663: ISDN BR0: RX <- RRr sapi=0 tei=66 nr=1
*Mar 1 03:04:14.675: ISDN BR0: TX -> INFOc sapi=0 tei=66 ns=1 nr=0
i=0x08019C07
*Mar 1 03:04:14.679: CONNECT pd = 8 callref = 0x9C
*Mar 1 03:04:14.687: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:04:14.711: ISDN BR0: RX <- RRr sapi=0 tei=66 nr=2
*Mar 1 03:04:15.567: ISDN BR0: RX <- INFOc sapi=0 tei=66 ns=0 nr=2
i=0x08011C0F
*Mar 1 03:04:15.575: CONNECT_ACK pd = 8 callref = 0x1C
*Mar 1 03:04:15.595: ISDN BR0: TX -> RRr sapi=0 tei=66 nr=1
*Mar 1 03:04:15.595: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:04:15.619: CCBRI_Go Fr L3 pkt (Len=4) :
*Mar 1 03:04:15.619: F 1 9C 92
*Mar 1 03:04:15.623:
*Mar 1 03:04:15.627: ISDN BR0: LIF_EVENT: ces/callid 1/0x31 HOST_CONNECT
*Mar 1 03:04:15.631: BRI: enable channel B1
*Mar 1 03:04:15.631: ISDN BR0: Event: Connected to 27208196 on B1 at 64 Kb/s
*Mar 1 03:04:16.223: BR0:1 DDR: dialer protocol up
*Mar 1 03:04:17.187: %LINEPROTO-5-UPDOWN: Line protocol on Interface
BRI0:1, changed state to up
*Mar 1 03:04:20.591: %ISDN-6-CONNECT: Interface BRI0:1 is now connected to
027208196 krimson
*Mar 1 03:04:25.591: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=1
*Mar 1 03:04:25.595: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:04:25.615: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=2
kevin#show isdn status Global ISDN Switchtype = basic-net3 ISDN BRI0 interface dsl 0, interface
ISDN Switchtype = basic-net3 Layer 1 Status: ACTIVE Layer 2 Status: TEI = 66, Ces = 1, SAPI = 0,
State = MULTIPLE_FRAME_ESTABLISHED I_Queue_Len 0, UI_Queue_Len 0 Layer 3 Status: 1 Active Layer
3 Call(s) CCB:callid=31, sapi=0, ces=1, B-chan=1, calltype=DATA Active dsl 0 CCBs = 1 The Free
Channel Mask: 0x80000002 Number of L2 Discards = 0, L2 Session ID = 10 Total Allocated ISDN CCBs
= 1 kevin#
*Mar 1 03:04:35.623: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=1
*Mar 1 03:04:35.627: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:04:35.647: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=2
*Mar 1 03:04:45.655: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=1
*Mar 1 03:04:45.659: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:04:45.679: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=2
*Mar 1 03:04:55.683: ISDN BR0: RX <- RRp sapi=0 tei=66 nr=2
*Mar 1 03:04:55.691: ISDN BR0: TX -> RRf sapi=0 tei=66 nr=1
*Mar 1 03:04:55.695: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:05:05.691: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=1
*Mar 1 03:05:05.695: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:05:05.715: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=2
*Mar 1 03:05:15.724: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=1
*Mar 1 03:05:15.728: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:05:15.748: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=2
*Mar 1 03:05:25.756: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=1
*Mar 1 03:05:25.760: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:05:25.780: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=2
*Mar 1 03:05:35.788: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=1
*Mar 1 03:05:35.792: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:05:35.812: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=2
*Mar 1 03:05:45.820: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=1

```

*Mar 1 03:05:45.824: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:05:45.844: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=2
*Mar 1 03:05:55.852: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=1
*Mar 1 03:05:55.856: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:05:55.880: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=2
*Mar 1 03:06:05.888: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=1
*Mar 1 03:06:05.892: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:06:05.912: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=2
*Mar 1 03:06:15.920: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=1
*Mar 1 03:06:15.924: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:06:15.944: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=2
*Mar 1 03:06:17.024: BR0:1 DDR: idle timeout
*Mar 1 03:06:17.028: BR0:1 DDR: disconnecting call
*Mar 1 03:06:17.028: ISDN BR0: Event: Hangup call to call id 0x31
*Mar 1 03:06:17.032: BRI: disable channel B1
*Mar 1 03:06:17.032: ISDN BR0: process_disconnect(): call id 0x31, call
type is DATA, b_idb 0x230B74, ces 1, cause Normal call clearing(0x10)
*Mar 1 03:06:17.040: %ISDN-6-DISCONNECT: Interface BRI0:1 disconnected
from 27208196 krimson, call lasted 122 seconds
*Mar 1 03:06:17.048: ISDN: get_isdn_service_state(): idb 0x230B74 bchan 2
is_isdn 1 Not a Pri
*Mar 1 03:06:17.052: CCBRI_Go Fr Host InPkgInfo (Len=13) :
*Mar 1 03:06:17.052: 5 0 1 0 31 3 8 1 90 8 2 80 90
*Mar 1 03:06:17.056:
*Mar 1 03:06:17.072: ISDN BR0: TX -> INFOc sapi=0 tei=66 ns=2 nr=1
i=0x08019C4508028090
*Mar 1 03:06:17.084: DISCONNECT pd = 8 callref = 0x9C
*Mar 1 03:06:17.088: Cause i = 0x8090 - Normal call clearing
*Mar 1 03:06:17.096: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:06:17.124: ISDN BR0: RX <- RRr sapi=0 tei=66 nr=3
*Mar 1 03:06:17.556: ISDN BR0: RX <- INFOc sapi=0 tei=66 ns=1 nr=3
i=0x08011C4D
*Mar 1 03:06:17.564: RELEASE pd = 8 callref = 0x1C
*Mar 1 03:06:17.580: CCBRI_Go Fr L3 pkt (Len=4) :
*Mar 1 03:06:17.584: 4D 1 9C 97
*Mar 1 03:06:17.584:
*Mar 1 03:06:17.592: ISDN BR0: LIF_EVENT: ces/callid 1/0x31
HOST_DISCONNECT_ACK
*Mar 1 03:06:17.596: ISDN: get_isdn_service_state(): idb 0x230B74 bchan 2
is_isdn 1 Not a Pri
*Mar 1 03:06:17.600: ISDN BR0: HOST_DISCONNECT_ACK: call type is DATA
*Mar 1 03:06:17.604: BRI: disable channel B1
*Mar 1 03:06:17.604: %LINK-3-UPDOWN: Interface BRI0:1, changed state to
down
*Mar 1 03:06:17.612: BR0:1 DDR: disconnecting call
*Mar 1 03:06:17.616: ISDN BR0: LIF_EVENT: ces/callid 1/0x31
HOST_DISCONNECT_ACK
*Mar 1 03:06:17.620: ISDN: get_isdn_service_state(): idb 0x230B74 bchan 2
is_isdn 1 Not a Pri
*Mar 1 03:06:17.624: ISDN BR0: HOST_DISCONNECT_ACK: call type is DATA
*Mar 1 03:06:17.628: BRI: disable channel B1
*Mar 1 03:06:17.636: ISDN BR0: TX -> RRr sapi=0 tei=66 nr=2
*Mar 1 03:06:17.640: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:06:17.644: ISDN BR0: TX -> INFOc sapi=0 tei=66 ns=3 nr=2
i=0x08019C5A
*Mar 1 03:06:17.652: RELEASE_COMP pd = 8 callref = 0x9C
*Mar 1 03:06:17.660: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:06:17.684: ISDN BR0: RX <- RRr sapi=0 tei=66 nr=4
*Mar 1 03:06:18.940: %LINEPROTO-5-UPDOWN: Line protocol on Interface
BRI0:1, changed state to down
*Mar 1 03:06:27.693: ISDN BR0: TX -> RRp sapi=0 tei=66 nr=2
*Mar 1 03:06:27.697: BRI: write_sid: scp = 0, wrote = E
*Mar 1 03:06:27.717: ISDN BR0: RX <- RRf sapi=0 tei=66 nr=4
*Mar 1 03:06:32.781: ISDN BR0: RX <- DISCp c/r=1 sapi=0 tei=66

```

*Mar 1 03:06:32.785: %ISDN-6-LAYER2DOWN: Layer 2 for Interface BR0, TEI 66
changed to down
*Mar 1 03:06:32.793: ISDN BR0: TX -> UAf c/r=1 sapi=0 tei=66
*Mar 1 03:06:32.797: BRI: write_sid: scp = 0, wrote = E
kevin#show isdn status Global ISDN Switchtype = basic-net3 ISDN BRI0 interface dsl 0, interface
ISDN Switchtype = basic-net3 Layer 1 Status: ACTIVE Layer 2 Status: TEI = 66, Ces = 1, SAPI = 0,
State = TEI_ASSIGNED !--- ISDN Layer 2 is disconnected I_Queue_Len 0, UI_Queue_Len 0 Layer 3
Status: 0 Active Layer 3 Call(s) Active dsl 0 CCBs = 0 The Free Channel Mask: 0x3 Number of L2
Discards = 0, L2 Session ID = 10 Total Allocated ISDN CCBs = 0 kevin#
*Mar 1 03:06:42.881: BRI: write_sid: scp = 0, wrote = 92
*Mar 1 03:06:42.885: BRI: write_sid: scp = 90, wrote = 93
*Mar 1 03:06:42.885: BRI0: ACTIVATED, state F2, event DI
*Mar 1 03:06:42.889: BRI: T4 timer started DEACT timer expired
*Mar 1 03:06:43.493: BRI: write_sid: scp = 0, wrote = 92
*Mar 1 03:06:43.493: BRI: write_sid: scp = 90, wrote = 93
*Mar 1 03:06:43.497: BRI: write_sid: scp = 0, wrote = 1
*Mar 1 03:06:43.497: BRI: write_sid: scp = 0, wrote = 0
*Mar 1 03:06:43.501: ISDN BR0 EVENT: isdn_sw_cstate: State = 0, Old State = 4
*Mar 1 03:06:43.505: BRI: disable channel B1
*Mar 1 03:06:43.505: BRI: disable channel B2
*Mar 1 03:06:43.509: ISDN BR0: Physical layer is IF_DOWN
!--- ISDN Layer 1 deactivated due to no calls on BRI
*Mar 1 03:06:43.509: ISDN BR0: Shutting down ME
*Mar 1 03:06:43.513: ISDN BR0: Shutting down ISDN Layer 3
kevin#show isdn status Global ISDN Switchtype = basic-net3 ISDN BRI0 interface dsl 0, interface
ISDN Switchtype = basic-net3 Layer 1 Status: DEACTIVATED Layer 2 Status: TEI = 66, Ces = 1, SAPI
= 0, State = TEI_ASSIGNED !--- TEI is preserved due to used configuration I_Queue_Len 0,
UI_Queue_Len 0 Layer 3 Status: 0 Active Layer 3 Call(s) Active dsl 0 CCBs = 0 The Free Channel
Mask: 0x3 Number of L2 Discards = 0, L2 Session ID = 11 Total Allocated ISDN CCBs = 0

```

[Información Relacionada](#)

- [Páginas de soporte de la tecnología de acceso](#)
- [Soporte Técnico - Cisco Systems](#)