

Negoziazione ISDN BRI Terminal Endpoint Identifier

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[Introduzione](#)

Questo documento offre una configurazione di esempio per l'interfaccia BRI (Basic Rate Interface) ISDN e illustra il comportamento del router Cisco rispetto al processo di negoziazione TEI (Terminal Endpoint Identifier).

[Prerequisiti](#)

[Requisiti](#)

Nessun requisito specifico previsto per questo documento.

[Componenti usati](#)

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

- Cisco IOS? Software release 12.2(6).
- Tutte le piattaforme hardware.

Nota: il comando `isdn tei-negotiation preserve` è stato introdotto nel software Cisco IOS versione 12.2(6) e 12.2(6)T.

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.

Convenzioni

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

Premesse

In alcuni paesi europei (ad esempio Belgio e Olanda), la pratica comune è che la compagnia telefonica (Telco) disconnetta l'ISDN Layer 1 quando la linea BRI non è stata attiva per un certo periodo di tempo, per motivi di risparmio energetico. Queste alternative sono possibili:

- I TEI già assegnati possono essere mantenuti dopo che il layer 1 ha smesso di lampeggiare.
- Il software Cisco IOS può essere configurato per rinegoziare il TEI ogni volta che si verifica un flap sul layer 1.

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](#) (solo utenti [registrati](#)).

Esempio di rete

Nel documento viene usata questa impostazione di rete:



Nell'esempio, vengono utilizzati due router Cisco 2500 con linee BRI.

Configurazioni

Nel documento vengono usate queste configurazioni:

- kevin
- cremisi

```
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
```

cremisi

```
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

```

Verifica

Le informazioni contenute in questa sezione permettono di verificare che la configurazione funzioni correttamente.

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

- **show isdn status**???visualizza lo stato di tutte le interfacce 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

```

Risoluzione dei problemi

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

Comandi per la risoluzione dei problemi

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

- **debug isdn q921** visualizza le procedure di accesso al livello di collegamento dati (livello 2) in corso al router sul canale D (LAPD) dell'interfaccia ISDN.
- **debug isdn q931** visualizza le informazioni sulla configurazione delle chiamate e sul disinserimento delle connessioni di rete ISDN (livello 3), tra il router locale (lato utente) e la rete.
- **debug isdn events** visualizza gli eventi ISDN che si verificano sul lato utente (sul router) dell'interfaccia ISDN.
- **debug bri** visualizza le informazioni di debug sull'attività di routing ISDN BRI.

Di seguito è riportato l'output del comando **debug** su 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
```

[Informazioni correlate](#)

- [Accesso alle pagine di supporto della tecnologia](#)
- [Supporto tecnico – Cisco Systems](#)