使用撥號程式配置檔案為ISDN配置DDR備份

目錄

<u>簡介</u>

此配置示例說明如何使用ISDN BRI電路備份租用線路、WAN或串列連線。

本檔案使用撥號程式設定檔和備份介面功能。backup interface命令將配置的物理或邏輯介面置於備 用模式,直到主介面關閉為止。

必要條件

<u>需求</u>

本文件沒有特定需求。

<u>採用元件</u>

此配置使用BRI電路備份串列鏈路。由於該路由器上配置了撥號器字串,因此路由器衝壓正在執行 撥出。在此組態中:

- 使用Cisco 2500路由器(RAMSES),連線到Cisco 2520路由器(sphinx)。兩台路由器都配備了 用於備份鏈路的BRI介面。
- •兩台路由器都運行Cisco IOS軟體版本12.0.7T。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除(預設

)的組態來啟動。如果您的網路正在作用,請確保您已瞭解任何指令可能造成的影響。

<u>慣例</u>

如需文件慣例的詳細資訊,請參閱思科技術提示慣例。

<u>設定</u>

本節提供用於設定本文件中所述功能的資訊。以下三個步驟完成了此配置:

- 使用傳統DDR或撥號程式配置檔案配置按需撥號路由(DDR)。本文檔中顯示的配置示例使用撥 號程式配置檔案。
- 2. 在主鏈路發生故障時,使用backup interface命令觸發撥出呼叫。
- 3. 定義相關流量。

注意:建議在配置備份介面和備份延遲命令之前,配置DDR連線(使用BRI0的撥號程式1)並驗證 其是否正常工作。這允許您在配置備份之前有效地管理和排除撥號程式配置檔案、ISDN、PPP和身 份驗證問題。

注意:要查詢有關本文檔中使用的命令的其他資訊,請使用<u>命令查詢工具(僅限註</u>冊客戶)。

網路圖表

本檔案會使用以下網路設定:



version 12.0 service timestamps debug datetime msec service timestamps log datetime msec hostname ramses ! username sphinx password <password> !-- password is case sensitive and should be the same on both sides ! isdn switch-type basic-net3 ! ! interface Loopback1 ip address 1.1.1.1 255.255.255.255 ! interface Ethernet0 ip address 10.48.74.45 255.255.254.0 ! interface SerialO backup delay 10 30 backup interface Dialer1 ip address 3.3.3.1 255.255.255.0 no ip directedbroadcast clockrate 125000 ! interface BRIO no ip address no ip directed-broadcast encapsulation ppp dialer pool-member 2 isdn switch-type basic-net3 no cdp enable ppp authentication chap callin ! interface Dialer1 ip unnumbered Loopback1 no ip directed-broadcast encapsulation ppp dialer remote-name sphinx dialer pool 2 dialer string 5551000 dialer-group 1 ppp authentication chap callin ! ip classless ip route 2.2.2.1 255.255.255.255 Dialer1 ip route 2.2.2.1 255.255.255.255 SerialO no ip http server ! dialer-list 1 protocol ip permit ! line con 0 exec-timeout 0 0 transport input none line aux 0 line vty 0 4 exectimeout 0 0 password <password> login ! ntp server 10.200.20.134 end sphinx(思科2520路由器) sphinx#show running-config Building configuration... Current configuration: version 12.0 service timestamps debug datetime msec service timestamps log datetime msec 1 hostname sphinx ! username ramses password <password> !-- password is case sensitive and should be the same on both sides ! isdn switch-type basic-net3 interface Loopback1 ip address 2.2.2.1 255.255.255.255 ! interface Serial0 ip address 3.3.3.2 255.255.255.0 ! interface BRIO no ip address no ip directed-broadcast encapsulation ppp dialer pool-member 2 isdn switch-type basic-net3 no cdp enable ppp authentication chap callin ! interface Dialer1 ip unnumbered Loopback1 no ip directed-broadcast encapsulation ppp dialer remote-name ramses dialer pool 2 dialer-group 1 ppp authentication chap ! ip classless ip route 1.1.1.1 255.255.255.255 Serial0 ip route 1.1.1.1 255.255.255.255 Dialer1 2 dialer-list 1 protocol ip permit ! line con 0 exectimeout 0 0 transport input none line aux 0 line vty 0 4 $\,$ end

本節提供的資訊可用於確認您的組態是否正常運作。

輸出直譯器工具(僅供註冊客戶使用)支援某些show命令,此工具可讓您檢視show命令輸出的分析。

- show isdn status???顯示所有ISDN介面或特定ISDN介面的狀態。
- show interface serial -???示有關串列介面的資訊。
- show interface dialer -???示有關撥號器介面的資訊。
- debug dialer -???示有關撥號器介面上接收的資料包的DDR資訊。
- debug isdn q931???顯示路由器和ISDN交換機之間的ISDN網路連線(第3層)的呼叫建立和斷開。
- debug ppp negotiation???在協商PPP元件(包括鏈路控制協定(LCP)、身份驗證和NCP時,顯示 有關PPP流量和交換的資訊。成功的PPP協商將首先開啟LCP狀態,然後進行身份驗證,最後 協商NCP。
- debug ppp authentication???顯示PPP身份驗證協定消息,包括質詢身份驗證協定(CHAP)資料
 包交換和口令身份驗證協定(PAP)交換。如果發現故障,請驗證CHAP使用者名稱和密碼是否配置正確。

<u>疑難排解</u>

本節提供的資訊可用於對組態進行疑難排解。

<u>疑難排解步驟</u>

請按照以下說明對配置進行故障排除:

使用show isdn status命令確保路由器與ISDN交換機正確通訊。在輸出中,確認:

- 第1層狀態為ACTIVE
- 第2層狀態狀態= MULTIPLE_FRAME_ESTABLISHED 此命令還顯示活動呼叫的數量。我們來看一個例子:

ramses#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 = 97, Ces = 1, SAPI = 0, State = MULTIPLE_FRAME_ESTABLISHED Layer 3 Status: 0 Active Layer 3 Call(s) Activated dsl 0 CCBs = 0 The Free Channel Mask: 0x8000003 Total Allocated ISDN CCBs = 0

ramses#**show interface serial 0** Serial0 is up, line protocol is up Hardware is HD64570 Internet address is 3.3.3.1/24 Backup interface Dialer1, failure delay 10 sec, secondary disable delay 30 sec ramses#show interface dialer 1

Dialer1 is standby mode, line protocol is down ! --- In standby mode. Hardware is Unknown 由於備份介面處於備用模式,因此在show ip route命令的輸出中看不到此資訊。

使用管理距離(AD)和不使用管理距離時,讓我們看一下輸出中顯示的差異。

不使用管理距離時

如果不使用AD,您將看到以下輸出:

sphinx#show interface dialer 1
Dialer1 is up (spoofing), line protocol is up (spoofing)
Hardware is Unknown

如果沒有在路由器sphinx上使用AD作為撥號程式,則會看到show ip route命令的以下輸出:

sphinx(config)#ip route 1.1.1.1 255.255.255.255 dialer1
! --- No AD used here. sphinx#show ip route 1.1.1.1
Routing entry for 1.1.1.1/32
Known via "static", distance 1, metric 0 (connected)
Routing Descriptor Blocks:
* directly connected, via Dialer1
Route metric is 0, traffic share count is 1
directly connected, via Serial0
Route metric is 0, traffic share count is 1

ping命令顯示的輸出看起來與以下類似,因為它缺少其中一個ping:

sphinx#ping 1.1.1.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 1.1.1.1, timeout is 2 seconds:
.!.!.

使用管理距離時

使用AD時,您將看到以下輸出:

sphinx(config)#ip route 1.1.1.1 255.255.255.255 dialer1 2
! --- The AD used here is two. sphinx#show ip route 1.1.1.1
Routing entry for 1.1.1.1/32
Known via "static", distance 1, metric 0 (connected)
Routing Descriptor Blocks:
 * directly connected, via Serial0
Route metric is 0, traffic share count is 1
sphinx#ping 1.1.1.1

Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 1.1.1.1, timeout is 2 seconds: !!!!!

配置並驗證DDR連線(撥號器1和BRI0之間)是否工作正常,然後再配置備**份接**口和**備份延遲**命令 。這樣,您就可以在配置備份之前驗證撥號器配置檔案、ISDN、PPP和身份驗證是否正常工作。 驗證DDR連線正常工作後,可以繼續執行以下備份故障排除步驟:

- 1. 關閉主鏈路。注意:請勿在配置了backup interface命令的路由器上使用shutdown命令。這不 會導致Cisco IOS撥打備份鏈路。您可以在沒有backup interface命令的路由器上關閉主介面 ,以啟用備份。註:在我們的方案中,backup interface命令是在ramses(Cisco 2500路由器)上配置的。因此,對sphinx(思科2520路由器)的主介面執行shutdown命令會啟用備用鏈 路。注意:您可以通過拔下電纜或使用某種等效的方法來物理關閉主連線,以便啟動備用介面
- 您應該會看到一條控制檯消息,指示備用介面(interface dialer 1)已啟動。此消息僅在由 backup delay命令指定的時間間隔過期後顯示。在此配置中,備份啟用延遲為10秒。如果未看 到此控制檯消息,請檢查備份延遲計時器。

```
*Mar 1 03:54:00.451: %LINEPROTO-5-UPDOWN: Line protocol on Interface
Serial0, changed state to down
*Mar 1 03:54:11.467: %LINK-3-UPDOWN: Interface Dialer1, changed state to up
```

- 3. 使用show ip route命令檢視主鏈路關閉的路由表。您應該觀察到Dialer 1的直連路由。
- 4. Ping遠端路由器環回介面的IP地址。如果連結沒有撥號,請確認您的相關流量定義允許 ICMP流量(ping)。注意:在我們的示例中,路由器斯芬克斯中的路由使用2的AD(這可以是除 1之外的任何數字)。

```
ip route 1.1.1.1 255.255.255.255 Dialer1 2
```

注意:出現這種情況的原因是,如果主鏈路處於開啟狀態,則ping操作會有一半丟失。由於 dialer 1和serial 0介面均已啟用,因此該路由已同時安裝用於這兩個介面。但是,由於BRI介面 未啟動,撥號器介面無法傳送資料包。

<u>疑難排解指令</u>

使用本節顯示的命令對配置進行故障排除。

<u>輸出直譯器工具(</u>僅供<u>註冊</u>客戶使用)支援某些**show**命令,此工具可讓您檢視<u>show</u>命令輸出的分析。

注意:發出debug命令之前,請參閱有關Debug命令的重要資訊。

嘗試ping 2.2.2.1以建立相關流量:

```
ramses#ping 2.2.2.1
   *Mar 1 04:53:26.574: %LINK-3-UPDOWN: Interface Serial0, changed state
   to down
   *Mar 1 04:53:27.574: %LINEPROTO-5-UPDOWN: Line protocol on Interface
   Serial0, changed state to down
   *Mar 1 04:53:38.590: %LINK-3-UPDOWN: Interface Dialer1, changed state
   to up
   *Mar 1 04:53:38.606: Dil LCP: Not allowed on a Dialer Profile.
   *Mar 1 04:53:40.058: BRIO DDR: rotor dialout [priority]
   *Mar 1 04:53:40.062: BRI0 DDR: Dialing cause ip (s=1.1.1.1, d=2.2.2.1)
   *Mar 1 04:53:40.066: BRI0 DDR: Attempting to dial 5551000
   *Mar 1 04:53:40.078: ISDN BR0: TX -> SETUP pd = 8 callref = 0x0A
   *Mar 1 04:53:40.078: Bearer Capability i = 0x8890
   *Mar 1 04:53:40.082: Channel ID i = 0x83
   *Mar 1 04:53:40.086: Called Party Number i = 0x80, '5551000'
   *Mar 1 04:53:40.342: ISDN BR0: RX <- CALL_PROC pd = 8 callref = 0x8A
   *Mar 1 04:53:40.346: Channel ID i = 0x89
   *Mar 1 04:53:40.834: ISDN BR0: RX <- CONNECT pd = 8 callref = 0x8A
   *Mar 1 04:53:40.846: ISDN BR0: TX -> CONNECT_ACK pd = 8 callref =
   0x0A
```

*Mar 1 04:53:40.854: %LINK-3-UPDOWN: Interface BRI0:1, changed state to up *Mar 1 04:53:40.870: BRI0:1: interface must be fifo queue, force fifo *Mar 1 04:53:40.874: %DIALER-6-BIND: Interface BRI0:1 bound to profile Dialer1 *Mar 1 04:53:40.882: %ISDN-6-CONNECT: Interface BRI0:1 is now connected to 5551000 *Mar 1 04:53:40.890: BR0:1 PPP: Treating connection as a callout *Mar 1 04:53:40.890: BR0:1 PPP: Phase is ESTABLISHING, Active Open *Mar 1 04:53:40.894: BR0:1 PPP: No remote authentication for call-out *Mar 1 04:53:40.898: BR0:1 LCP: O CONFREQ [Closed] id 18 len 10 *Mar 1 04:53:40.902: BR0:1 LCP: MagicNumber 0xE1BD38B8 (0x0506E1BD38B8) *Mar 1 04:53:40.930: BR0:1 LCP: I CONFREQ [REQsent] id 22 len 15 *Mar 1 04:53:40.934: BR0:1 LCP: AuthProto CHAP (0x0305C22305) *Mar 1 04:53:40.938: BR0:1 LCP: MagicNumber 0xEEBCFA2D (0x0506EEBCFA2D)*Mar 1 04:53:40.942: BR0:1 LCP: O CONFACK [REQsent] id 22 len 15 *Mar 1 04:53:40.946: BR0:1 LCP: AuthProto CHAP (0x0305C22305) *Mar 1 04:53:40.950: BR0:1 LCP: MagicNumber 0xEEBCFA2D (0x0506EEBCFA2D)*Mar 1 04:53:40.954: BR0:1 LCP: I CONFACK [ACKsent] id 18 len 10 *Mar 1 04:53:40.954: BR0:1 LCP: MagicNumber 0xE1BD38B8 (0x0506E1BD38B8) *Mar 1 04:53:40.958: BR0:1 LCP: State is Open *Mar 1 04:53:40.962: BR0:1 PPP: Phase is AUTHENTICATING, by the peer *Mar 1 04:53:40.982: BR0:1 CHAP: I CHALLENGE id 9 len 27 from "sphinx" *Mar 1 04:53:40.986: BR0:1 CHAP: O RESPONSE id 9 len 27 from "ramses" *Mar 1 04:53:41.046: BR0:1 CHAP: I SUCCESS id 9 len 4 *Mar 1 04:53:41.050: BR0:1 PPP: Phase is UP *Mar 1 04:53:41.054: BR0:1 IPCP: O CONFREQ [Not negotiated] id 9 len 10 *Mar 1 04:53:41.058: BR0:1 IPCP: Address 1.1.1.1 (0x030601010101) *Mar 1 04:53:41.062: BR0:1 CDPCP: O CONFREQ [Not negotiated] id 9 len 4 *Mar 1 04:53:41.066: BR0:1 IPCP: I CONFREQ [REQsent] id 6 len 10 *Mar 1 04:53:41.070: BR0:1 IPCP: Address 2.2.2.1 (0x030602020201) *Mar 1 04:53:41.074: BR0:1 IPCP: O CONFACK [REQsent] id 6 len 10 *Mar 1 04:53:41.078: BR0:1 IPCP: Address 2.2.2.1 (0x030602020201) *Mar 1 04:53:41.082: BR0:1 CDPCP: I CONFREQ [REQsent] id 9 len 4 *Mar 1 04:53:41.086: BR0:1 CDPCP: O CONFACK [REQsent] id 9 len 4 *Mar 1 04:53:41.110: BR0:1 IPCP: I CONFACK [ACKsent] id 9 len 10 *Mar 1 04:53:41.110: BR0:1 IPCP: Address 1.1.1.1 (0x030601010101) *Mar 1 04:53:41.114: BR0:1 IPCP: State is Open *Mar 1 04:53:41.122: BR0:1 CDPCP: I CONFACK [ACKsent] id 9 len 4 *Mar 1 04:53:41.126: BR0:1 CDPCP: State is Open *Mar 1 04:53:41.126: BRI0:1 DDR: dialer protocol up *Mar 1 04:53:41.134: Dil IPCP: Install route to 2.2.2.1 *Mar 1 04:53:42.086: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0:1, changed state to up *Mar 1 04:53:46.886: %ISDN-6-CONNECT: Interface BRI0:1 is now connected to 5551000 5551000 ramses#show dialer BRIO - dialer type = ISDN

Dial String Successes Failures Last DNIS Last status
0 incoming call(s) have been screened.
0 incoming call(s) rejected for callback.

BRI0:1 - dialer type = ISDN Idle timer (120 secs), Fast idle timer (20 secs) Wait for carrier (30 secs), Re-enable (15 secs) Dialer state is data link layer up Dial reason: ip (s=1.1.1.1, d=2.2.2.1)

! --- we see dial reason, this is the calling router Interface bound to profile Dialer1 Time until disconnect 105 secs Current call connected 00:00:16 Connected to 5551000 (5551000) BRI0:2 - dialer type = ISDN Idle timer (120 secs), Fast idle timer (20 secs) Wait for carrier (30 secs), Re-enable (15 secs) Dialer state is idle Dialer1 - dialer type = DIALER PROFILE Idle timer (120 secs), Fast idle timer (20 secs) Wait for carrier (30 secs), Re-enable (15 secs) Dialer state is data link layer up Number of active calls = 1 Number of active circuit switched calls = 0 Dial String Successes Failures Last DNIS Last status 5551000 5 0 00:00:19 successful Default Dialer2 - dialer type = NONE Idle timer (120 secs), Fast idle timer (20 secs) Wait for carrier (30 secs), Re-enable (15 secs) Number of active calls = 0Dial String Successes Failures Last DNIS Last status ramses#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 not set 1.0.0/32 is subnetted, 1 subnets C 1.1.1.1 is directly connected, Loopback1 2.0.0/32 is subnetted, 1 subnets C 2.2.2.1 is directly connected, Dialer1 10.0.0/23 is subnetted, 1 subnets C 10.48.74.0 is directly connected, Ethernet0 sphinx(config)#interface serial 0 sphinx(config-if)#shutdown sphinx(config-if)# *Mar 3 20:07:40.603: %LINK-5-CHANGED: Interface Serial0, changed state to administratively down *Mar 3 20:07:41.603: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0, changed state to down *Mar 3 20:07:54.331: ISDN BR0: RX <- SETUP pd = 8 callref = 0x14 *Mar 3 20:07:54.335: Bearer Capability i = 0x8890 *Mar 3 20:07:54.339: Channel ID i = 0x89 *Mar 3 20:07:54.343: Called Party Number i = 0xC1, '5551000' *Mar 3 20:07:54.355: ISDN BR0: Event: Received a DATA call from <unknown> on B1 at 64 Kb/s *Mar 3 20:07:54.355: BRI0:1: interface must be fifo queue, force fifo *Mar 3 20:07:54.363: %DIALER-6-BIND: Interface BRI0:1 bound to profile

Dialer1 *Mar 3 20:07:54.383: %LINK-3-UPDOWN: Interface BRI0:1, changed state to up *Mar 3 20:07:54.403: %ISDN-6-CONNECT: Interface BRI0:1 is now connected to <unknown phone number> *Mar 3 20:07:54.411: BR0:1 PPP: Treating connection as a callin *Mar 3 20:07:54.415: BR0:1 PPP: Phase is ESTABLISHING, Passive Open *Mar 3 20:07:54.415: BR0:1 LCP: State is Listen *Mar 3 20:07:54.471: %ISDN-6-LAYER2UP: Layer 2 for Interface BR0, TEI 99 changed to up *Mar 3 20:07:54.479: ISDN BR0: TX -> CALL_PROC pd = 8 callref = 0x94 *Mar 3 20:07:54.687: ISDN BR0: TX -> CONNECT pd = 8 callref = 0x94 *Mar 3 20:07:54.851: ISDN BR0: RX <- CONNECT_ACK pd = 8 callref = 0x14 *Mar 3 20:07:54.939: BR0:1 LCP: I CONFREQ [Listen] id 18 len 10 *Mar 3 20:07:54.939: BR0:1 LCP: MagicNumber 0xE1BD38B8 (0x0506E1BD38B8) *Mar 3 20:07:54.943: BR0:1 LCP: O CONFREQ [Listen] id 22 len 15 *Mar 3 20:07:54.947: BR0:1 LCP: AuthProto CHAP (0x0305C22305) *Mar 3 20:07:54.951: BR0:1 LCP: MagicNumber 0xEEBCFA2D (0x0506EEBCFA2D)*Mar 3 20:07:54.955: BR0:1 LCP: O CONFACK [Listen] id 18 len 10 *Mar 3 20:07:54.959: BR0:1 LCP: MagicNumber 0xE1BD38B8 (0x0506E1BD38B8) *Mar 3 20:07:54.987: BR0:1 LCP: I CONFACK [ACKsent] id 22 len 15 *Mar 3 20:07:54.987: BR0:1 LCP: AuthProto CHAP (0x0305C22305) *Mar 3 20:07:54.991: BR0:1 LCP: MagicNumber 0xEEBCFA2D (0x0506EEBCFA2D)*Mar 3 20:07:54.995: BR0:1 LCP: State is Open *Mar 3 20:07:54.995: BR0:1 PPP: Phase is AUTHENTICATING, by this end *Mar 3 20:07:54.999: BR0:1 CHAP: O CHALLENGE id 9 len 27 from "sphinx" *Mar 3 20:07:55.027: BR0:1 CHAP: I RESPONSE id 9 len 27 from "ramses" *Mar 3 20:07:55.035: BR0:1 CHAP: O SUCCESS id 9 len 4 *Mar 3 20:07:55.039: BR0:1 PPP: Phase is UP *Mar 3 20:07:55.043: BR0:1 IPCP: O CONFREQ [Not negotiated] id 6 len 10 *Mar 3 20:07:55.047: BR0:1 IPCP: Address 2.2.2.1 (0x030602020201) *Mar 3 20:07:55.051: BR0:1 CDPCP: O CONFREQ [Not negotiated] id 9 len 4 *Mar 3 20:07:55.115: BR0:1 IPCP: I CONFREQ [REQsent] id 9 len 10 *Mar 3 20:07:55.119: BR0:1 IPCP: Address 1.1.1.1 (0x030601010101) *Mar 3 20:07:55.123: BR0:1 IPCP: O CONFACK [REQsent] id 9 len 10 *Mar 3 20:07:55.127: BR0:1 IPCP: Address 1.1.1.1 (0x030601010101) *Mar 3 20:07:55.131: BR0:1 CDPCP: I CONFREQ [REQsent] id 9 len 4 *Mar 3 20:07:55.135: BR0:1 CDPCP: O CONFACK [REQsent] id 9 len 4 *Mar 3 20:07:55.139: BR0:1 IPCP: I CONFACK [ACKsent] id 6 len 10 *Mar 3 20:07:55.143: BR0:1 IPCP: Address 2.2.2.1 (0x030602020201) *Mar 3 20:07:55.147: BR0:1 IPCP: State is Open *Mar 3 20:07:55.151: BR0:1 CDPCP: I CONFACK [ACKsent] id 9 len 4 *Mar 3 20:07:55.155: BR0:1 CDPCP: State is Open *Mar 3 20:07:55.159: BRI0:1 DDR: dialer protocol up *Mar 3 20:07:55.167: Dil IPCP: Install route to 1.1.1.1 *Mar 3 20:07:56.039: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0:1, changed state to up *Mar 3 20:08:00.411: %ISDN-6-CONNECT: Interface BRI0:1 is now connected to <unknown phone number> ramses

sphinx#**show dialer**

BRIO - dialer type = ISDN

Dial String Successes Failures Last DNIS Last status
0 incoming call(s) have been screened.
0 incoming call(s) rejected for callback.

```
BRI0:1 - dialer type = ISDN
   Idle timer (120 secs), Fast idle timer (20 secs)
   Wait for carrier (30 secs), Re-enable (15 secs)
  Dialer state is data link layer up
   Interface bound to profile Dialer1
   Time until disconnect 95 secs
   Connected to <unknown phone number> (ramses)
    ! --- We see ramses. BRI0:2 - dialer type = ISDN Idle timer (120 secs), Fast idle timer (20
secs) Wait for carrier (30 secs), Re-enable (15 secs) Dialer state is idle Dialer1 - dialer type
= DIALER PROFILE Idle timer (120 secs), Fast idle timer (20 secs) Wait for carrier (30 secs),
Re-enable (15 secs) Dialer state is data link layer up Number of active calls = 1 Number of
active circuit switched calls = 0 Dial String Successes Failures Last DNIS Last status
sphinx#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 not set
   1.0.0/32 is subnetted, 1 subnets
   C 1.1.1.1 is directly connected, Dialer1
   2.0.0/32 is subnetted, 1 subnets
   C 2.2.2.1 is directly connected, Loopback1
   sphinx#
```

相關資訊

- 存取技術支援頁面
- 技術支援 Cisco Systems