用拨号程序配置文件配置 ISDN 的 DDR 备份

目录

<u>简介</u>

此示例配置显示如何使用ISDN BRI电路备份租用线路、WAN或串行连接。

本文档使用拨号程序配置文件和备份接口功能。backup interface命令将已配置的物理或逻辑接口置 于备用模式,直到主接口关闭。

<u>先决条件</u>

<u>要求</u>

本文档没有任何特定的要求。

使用的组件

此配置使用一个BRI电路备份串行链路。路由器RAMS正在执行拨出,因为该路由器上配置了拨号程 序字符串。在此配置中:

- 使用Cisco 2500路由器(RAMSES),与Cisco 2520路由器(sphinx)连接。 两个路由器也通过 BRI接口安装,此接口用于备份链路。
- •两台路由器都运行Cisco IOS软件版本12.0.7T。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原

始(默认)配置。如果您使用的是真实网络,请确保您已经了解所有命令的潜在影响。

<u>规则</u>

有关文档规则的详细信息,请参阅 Cisco 技术提示规则。

<u>配置</u>

本部分提供有关如何配置本文档所述功能的信息。以下三个步骤完成此配置:

- 使用传统DDR或拨号程序配置文件配置按需拨号路由(DDR)。本文档中显示的示例配置使用拨号程序配置文件。
- 2. 当主链路发生故障时,使用backup interface命令触发拨出呼叫。
- 3. 定义相关流量。

注意:建议在配置备份接口和备份延迟命令之前,配置DDR连接(使用BRI0的拨号程序1)并验证 其**是否**正**常工**作。这样,在配置备份之前,您就可以有效地管理拨号程序配置文件、ISDN、PPP和 身份验证问题并排除故障。

注:要查找有关本文档中使用的命令的其他信息,请使用命<u>令查找工</u>具(<u>仅注</u>册客户)。

<u>网络图</u>

本文档使用以下网络设置:



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 1

本部分所提供的信息可用于确认您的配置是否正常工作。

<u>命令输出解释程序工具(仅限注册用户)支持某些</u> show <mark>命令,使用此工具可以查看</mark>对 show 命令 输出的分析。

- show isdn status???显示所有ISDN接口或特定ISDN接口的状态。
- show interface serial???显示有关串行接口的信息。
- show interface dialer????显示有关拨号器接口的信息。
- debug dialer???显示有关拨号器接口上收到的数据包的DDR信息。
- debug isdn q931????显示路由器和ISDN交换机之间ISDN网络连接(第3层)的呼叫建立和断 开。
- debug ppp negotiation????显示在协商PPP组件(包括链路控制协议(LCP)、身份验证和 NCP)时PPP流量和交换的信息。成功的PPP协商将首先开放LCP状态,然后进行验证,最后进 行NCP协商。
- debug ppp authentication???显示PPP身份验证协议消息,包括质询身份验证协议(CHAP)数据包交换和密码身份验证协议(PAP)交换。如果发现故障,请验证CHAP用户名和密码是否配置正确。

<u>故障排除</u>

本部分提供的信息可用于对配置进行故障排除。

故障排除步骤

按照以下说明对配置进行故障排除:

使用show isdn status命令确保路由器与ISDN交换机正常通信。在输出中,验证:

• 第1层状态为ACTIVE

• 第2层状态状态= MULTIPLE_FRAME_ESTABLISHED 此指令也显示活动的呼叫的数量。请看下面的示例:

```
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: 0x80000003
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

ramses#show interface dialer 1

Dialer1 is standby mode, line protocol is down ! --- In standby mode. Hardware is Unknown 由于备份接口处于备用模式,因此在show ip route命令的输出中看不到此信息。

﹐让我们看一下使用管理距离(AD)和不使用管理距离(AD)时输出中显示的差异。

<u>不使用管理距离时</u>

不使用AD时,您会看到以下输出:

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

如果不对路由器sphinx上的拨号器使用AD,您会看到show ip route命令的**以下输**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命令显示的输出类似于以下内容,因为它缺少其中一个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:
.!.!.
```

<u>使用管理距离时</u>

使用AD时,您会看到以下输出:

```
sphinx(config)#ip route 1.1.1.1 255.255.255 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:
!!!!!
```

在配置备份接口和备份延迟命令之前,请配置并验证DDR连接(在拨号器1和BRI0之间)**是否正**常 **工作**。这样,在配置备份之前,您可以验证拨号程序配置文件、ISDN、PPP和身份验证是否正常运 行。 验证DDR连接是否正常工作后,您可以继续执行下面列出的以下备份故障排除步骤:

- 1. 关闭主链路。注意:请勿在路由器上使用shutdown命令,并配置备份接口命令。这不会导致 Cisco IOS拨打备份链路。通过关闭不带有backup interface命令的路由器上的主要接口,您可 以激活备份。注意:在我们的场景中,备份接口命令在rams(Cisco 2500路由器)上配置。 因此,对sphinx的主接口(Cisco 2520路由器)执行shutdown命令会激活备用链路。注意:您 可以通过拔掉电缆或使用某种等效方法来物理断开主连接,以打开备份接口。
- 2. 您应该看到一条控制台消息,指明备份接口(接口拨号程序 1)已接通。此消息仅在备份延迟 命令指定的间隔时间过期后显示。在此配置中,备份激活延迟为 10 秒。如果未看到此控制台 消息,请检查 backup delay 计时器。

```
*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 命令来查看主链路关闭时的路由表。**您应该观察到到Dialer 1的直连路由。
- 4. 对远程路由器的环回接口的IP地址执行ping操作。如果链路不拨号,请验证相关流量定义是否 允许ICMP流量(ping)。**注意:**在我们的示例中,路由器sphinx中的路由使用AD(2)(这可以是 除1以外的任意数字)。

ip route 1.1.1.1 255.255.255.255 Dialer1 2

注意:造成这种情况的原因是,如果主链路已打开,一半的ping会丢失。由于拨号器1和串行 0接口都处于打开状态,因此路由已安装到两个接口。但是,由于BRI接口未打开,拨号器接口 无法发送数据包。

<u>故障排除命令</u>

使用本节中所示的命令排除配置故障。

<u>命令输出解释程序工具(仅限注册用户)支持某些</u> show 命令,使用此工具可以查看对 show 命令 输出的分析。

注意:在发出debug命令之前,请<u>参阅有关Debug命令的重要信息</u>。

尝试ping 2.2.2.1以创建相关流量:

```
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: BRIO 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 =
   0 \times 0 A
```

*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#
```

相关信息

- 接入技术支持页面
- <u>技术支持 Cisco Systems</u>