

# 用拨号程序配置文件配置 ISDN 的 DDR 备份

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## 简介

此配置示例显示您如何能使用ISDN BRI电路备份一条租用的线路、广域网或者串行连接。

本文使用拨号配置文件和备用接口功能。**backup interface**命令在备用模式放置已配置的物理或逻辑接口，直到这样次要接口断开。

## 先决条件

### 要求

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。因为dialer string在该路由器，配置路由器ramses执行拨出。在此配置中：

- 使用Cisco 2500路由器(ramses)，连接对思科2520路由器(狮身人面象)。两个路由器也通过BRI接口安装，此接口用于备份链路。
- 两路由器运行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。

## 规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

## 配置

本部分提供有关如何配置本文档所述功能的信息。这三个步骤完成此配置：

1. 配置与传统DDR或拨号配置文件的按需拨号路由(DDR)。在本文显示的配置示例使用拨号配置文件。
2. 当主链路发生故障时，请使用**backup interface**命令触发拨出呼叫。
3. 定义关注数据流。

**注意：**推荐您配置是工作正常的DDR连接(与BRI0的拨号1)并且验证，在您配置备份接口和**backup delay**命令前。在您配置备份前，这允许您有效管理和排除故障拨号配置文件，ISDN、PPP和验证问题。

**注意：**要查找本文档所用命令的其他信息，请使用[命令查找工具](#) ( [仅限注册用户](#) )。

## 网络图

本文档使用以下网络设置：

## 配置

本文档使用以下配置：

- [ramses \(Cisco 2500路由器\)](#)
- [狮身人面象\(思科2520路由器\)](#)

### ramses (Cisco 2500路由器)

```
ramses#show running-config Building configuration...
Current configuration: ! 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 Serial0 backup delay 10 30 backup interface
Dialer1 ip address 3.3.3.1 255.255.255.0 no ip directed-
broadcast clockrate 125000 ! interface BRI0 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 Serial0 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 exec-
timeout 0 0 password <password> login ! ntp server
10.200.20.134 end
```

## 狮身人面象(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
! 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 BRI0 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 exec-
timeout 0 0 transport input none line aux 0 line vty 0 4
! end
```

## 验证

本部分所提供的信息可用于确认您的配置是否正常工作。

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

- **show isdn status**显示所有ISDN接口或一个特定ISDN接口状况。
- **show interface serial** ? ? ? 显示关于serial interfaces的信息。
- **show interface dialer** ? ? ? 显示关于拨号接口的信息。
- **debug dialer** ? ? ? 显示关于在拨号接口接收的数据包的DDR信息。
- **调试isdn q931**???.Shows呼叫建立并且切断ISDN网络连接(在路由器和ISDN交换机之间的层3)。
- **debug ppp协商** ? ? ? 显示关于PPP流量的信息并且交换，当协商PPP组件包括链路控制协议(LCP)、验证和NCP时。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认证协议消息，包括质询验证协议(CHAP)信息包交换和密码认证协议交换。如果观察一失败，请验证CHAP用户名和密码正确地配置。

## 故障排除

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

遵从这些说明排除故障您的配置：

请使用**show isdn status**命令保证路由器用ISDN交换机适当地通信。在输出中，请验证那：

- 第1层状态是活跃的
- 第2层状态=MULTIPLE\_FRAME\_ESTABLISHED出现。

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 delay 30 sec
ramses#show interface dialer 1 Dialer1 is standby mode, line protocol is down ! --- In standby
mode. Hardware is Unknown
```

因为备份接口在备用模式，您在输出看不到此信息show ip route命令中。

请查看在输出中显示出的差异，当曾经管理距离时(AD)使用一个，和，当不。

## 使用管理距离，当不

使用AD，当不，您看到以下输出：

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

如果不使用AD在路由器狮身人面象的拨号程序，您看到从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命令看起来显示的输出类似于以下，因为未命中其中一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: .!..!
```

## 当曾经管理距离时

当曾经AD时，您看到以下输出：

```
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: !!!!!
```

配置并且验证DDR连接(在拨号1和BRI0之间)是工作正常，在您配置备份接口和backup delay命令前。这允许您验证拨号配置文件、ISDN、PPP和验证在配置备份前正确地作用。

一旦验证DDR连接是工作正常，您能继续到如下被概述的以下备份故障排除步骤：

1. 关闭主链路。**注意：**请勿对配置了 backup interface 命令的路由器使用 shutdown 命令。这不造成Cisco IOS拨号备份链路。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：**在我们的方案中， backup interface命令在ramses (Cisco 2500路由器)配置。所以，执行在主要接口的一shutdown命令狮身人面象(思科2520路由器)激活备份链路。**注意：**您能通过拔掉电缆或者使用某个等效方法，为了启动备份接口物理的减少主要连接。
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。此消息在间隔时间之

后只出现，指定由**backup delay**命令，超时。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。您应该直接地观察一已连接路由到拨号1。
4. ping远程路由器的回环接口的IP地址。如果链路不拨号，请验证您的触发数据流定义允许ICMP流量(ping)。注意：在我们的示例中，AD两使用路由在路由器狮身人面象(这可以是任何编号除一个之外)。ip route 1.1.1.1 255.255.255.255 Dialer1 2 **注意**：对此的原因是，如果主链路是UP，ping的半丢失。因为拨号1和serial0接口是UP，路由为两个接口安装。然而，因为BRI接口不上升，拨号接口不能发送数据包。

## 故障排除命令

请使用显示的命令在此部分排除故障您的配置。

[命令输出解释程序工具 \(仅限注册用户\)](#) 支持某些 **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，请参阅[有关 Debug 命令的重要信息](#)。

设法对ping 2.2.2.1创建关注数据流：

```
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: BRI0 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: Di1 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 BRI0 - 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 = 0 Dial 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 1.0.0.0/32 is subnetted, 1 subnets C 1.1.1.1 is directly connected, Loopback1 2.0.0.0/32 is subnetted, 1 subnets C 2.2.2.1 is directly connected, Dialer1 10.0.0.0/23 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: Di1 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 BRI0 - 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 1.0.0.0/32
is subnetted, 1 subnets C 1.1.1.1 is directly connected, Dialer1 2.0.0.0/32 is subnetted, 1
subnets C 2.2.2.1 is directly connected, Loopback1 sphinx#
```

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