# Using PPP Half-Bridging to Connect Routed and Bridged Networks (Utilizando meia conexão por ponte PPP para conectar redes roteadas e conectadas por ponte)

## Índice



## Introdução

Este documento fornece uma configuração de exemplo usando o PPP queconstrói uma ponte sobre para conectar roteado e redes interligada.

## Pré-requisitos

### Requisitos

Não existem requisitos específicos para este documento.

### Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- Software Release 12.2(7b) de Cisco IOS®.
- Dois Cisco 2500 Series Router. Cada um tem pelo menos uma relação do ISDN BRI.

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

### Produtos Relacionados

Esta configuração também pode ser utilizada com estas versões de hardware e software:

- Alguma interface serial, tal como a série, Basic Rate Interface (BRI), relação da taxa principal (PRI), e assim por diante.
- Cisco IOS Software Release 11.2.
- Algum Cisco IOS Software running do roteador como mencionado acima, e pelo menos uma porta ISDN-BRI. Contudo, os recursos de semiBridge podem ser usados em um roteador com uma interface serial.

### Convenções

Para obter mais informações sobre convenções de documento, consulte as Convenções de dicas técnicas Cisco.

## Informações de Apoio

A ponte envia pacotes de ponte para a meia-ponte PPP que os converte em pacotes roteados e os encaminha para outros processos do roteador. Igualmente, o semibridge PPP converte pacotes roteado aos pacotes do bridge Ethernet, e envia-os à ponte na mesma sub-rede de Ethernet.

**Nota:** Esta configuração não cobre um bridge direta em ambos os lados. Para tal configuração refira o documento do Bridging através de ISDN.

Esteja ciente que construir uma ponte sobre em uma conexão ISDN tende a manter muito a conexão ativa por períodos longos, se não permanentemente. Se o telco carrega para o ISDN baseado no tempo de conexão, este pode conduzir a uma conta muito grande. Consequentemente, esta encenação é recomendada para aquelas que têm linhas ISDN de uso ilimitado.

**Nota:** Uma relação não pode funcionar como um semibridge e uma ponte. O Cisco IOS Software apoia não mais de um semibridge PPP pela sub-rede de Ethernet.

## Configurar

Nesta seção, você encontrará informações para configurar os recursos descritos neste documento.

**Nota:** Para localizar informações adicionais sobre os comandos usados neste documento, utilize a Ferramenta Command Lookup (somente clientes registrados).

## Diagrama de Rede

Este documento utiliza a seguinte configuração de rede:

## Configurações

Este documento utiliza as seguintes configurações:

- **Venus**Este roteador é configurado como um bridge direta com Roteamento IP desabilitou. Os seletores do dispositivo quando todo o tráfego interligado chegar.
- **Saturn**Este roteador foi configurado como um semibridge. Note que os **comandos dialer string, dialer group, e dialer list** não estão configurados neste lado. Assim este roteador nunca discará, mas aceitará chamadas recebidas. Isto impede que o roteador disque o roteador remoto. Nós gerenciemos Roteamento IP sobre aqui. O software de Bridging completo não é configurado neste roteador. O semibridge PPP está sendo executado na interface BRI, assim que os comandos como a **mostra constroem uma ponte sobre** e a medir-**árvore da mostra** não rende nenhuma saída neste roteador.

**Venus**

```
Venus#show running-config ! version 12.2 ! hostname
Venus ! username Saturn password 0 same !--- Required
for PPP CHAP authentication during dialup ip subnet-zero
no ip routing !--- Turn off routing no ip domain-lookup
! isdn switch-type basic-5ess !--- The ISDN switchtype
for this circuit. Obtain this information from the !---
Telco. This ISDN switch type is USA specific and could
be changed !--- depending on the country and TELCO
requirements ! interface Ethernet0 ip address 10.1.1.2
255.0.0.0 !--- This is for management purpose only no ip
route-cache no ip mroute-cache bridge-group 1 !---
Assign this interface to Bridge Group 1 !--- Frames are
bridged only among interfaces in the same group !---
Note: the dialer1 interface is also in this bridge-group
1 interface BRI0 no ip address no ip route-cache no ip
mroute-cache dialer pool-member 1 !--- Dialer profiles
configured with same dialer pool # !--- (in this case,
dialer1) will bind to this interface isdn switch-type
basic-5ess !--- Check with your Telco for the correct
values ! interface Dialer1 !--- Configure the Dialer
profile description ISDN to Saturn ip address 10.1.1.2
255.0.0.0 encapsulation ppp dialer pool 1 !--- Use
physical interfaces configured with same pool # !--- (in
this case, bri0) during dialup dialer remote-name Saturn
!--- Specifies remote CHAP name dialer string 5552000 !-
-- Specifies the number to dial when interesting traffic
arrives dialer-group 1 !--- Defines the interesting
traffic as configured in the dialer-list ppp
authentication chap !--- Use CHAP as the authentication
method bridge-group 1 !--- Assign this interface to
Bridge Group 1. !--- Frames are bridged only among
interfaces in the same group. !--- Note: the Ethernet
interface 0 is also in this bridge-group 1 ip default-
gateway 10.1.1.3 !--- All default traffic from Venus
should go through Saturn dialer-list 1 protocol bridge
```

```
permit !--- Defines the interesting traffic. In this
case, all bridged traffic bridge 1 protocol ieee !---
Define the type of Spanning-Tree Protocol used for the
interface in !--- bridge-group 1. Here we use the IEEE
spanning tree protocol. The IEEE 802.1D !--- Spanning-
Tree Protocol is the preferred way of running the
bridge. !
```

**Saturn**

```
Saturn#show running-config ! version 12.2 ! hostname
Saturn ! username Venus password 0 same !--- Required
for PPP CHAP authentication during dialup ip subnet-zero
no ip domain-lookup ! isdn switch-type basic-5ess !---
The ISDN switchtype for this circuit. Obtain this
information from the !--- Telco. This ISDN switch type
is USA specific and could be changed !--- depending on
the country and Telco requirements ! interface Ethernet0
ip address 192.168.1.1 255.255.0.0 ! interface BRI0 no
ip address no ip mroute-cache dialer pool-member 1 !---
Dialer profiles configured with same dialer pool # !---
(in this case, dialer1) will bind to this interface isdn
switch-type basic-5ess ! interface Dialer1 !---
Configure the Dialer profile description ISDN to Venus
ip address 10.1.1.3 255.0.0.0 !--- IP address is
required to route the bridged traffic from Venus !---
This ip address MUST be in the same subnet as the remote
bridge network encapsulation ppp dialer pool 1 !--- Use
physical interfaces configured with same pool # !--- (in
this case, bri0) during dialup dialer remote-name Venus
pulse-time 0 ppp bridge ip !--- Configures half bridge
ppp authentication chap !--- Use CHAP as the
authentication method !
```

# Verificar

Esta seção fornece informações que você pode usar para confirmar se sua configuração está funcionando adequadamente.

A Output Interpreter Tool (somente clientes registrados) oferece suporte a determinados comandos show, o que permite exibir uma análise da saída do comando show.

- **status de ISDN da mostra** — indica o estado L1, L2, e L3 das interfaces.
- **discador da mostra** — indica o estado do discador, e o status individual dos canais ISDN.
- **ponte da mostra** — classes dos indicadores de entradas no Bridge Forwarding Database, no modo de exec privilegiado.
- **relação da mostra** — indica o estado de várias relações, incluindo a série e as interfaces BRI.
- **a mostra arp** — verifica o mapeamento ARP. O ARP é um protocolo usado para traçar o endereço da camada 2 (MAC address) a um endereço da camada 3 (endereço IP de Um ou Mais Servidores Cisco ICM NT).
- **medir-árvore da mostra** — indica a topologia de Spanning Tree conhecida ao roteador.

## Comandos show em Venus após discagem para Saturn

```
Venus#show isdn status Global ISDN Switchtype = basic-5ess ISDN BRI0 interface dsl 0, interface
ISDN Switchtype = basic-5ess Layer 1 Status: ACTIVE Layer 2 Status: TEI = 107, Ces = 1, SAPI =
0, State = MULTIPLE_FRAME_ESTABLISHED Layer 3 Status: 1 Active Layer 3 Call(s) CCB:callid=800E,
```

sapi=0, ces=1, B-chan=2, calltype=DATA Active dsl 0 CCBs = 1 The Free Channel Mask: 0x80000001 Number of L2 Discards = 0, L2 Session ID = 17 Total Allocated ISDN CCBs = 1 Venus#**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 idle 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 data link layer up Dial reason: bridge (0x0800) Interface bound to profile Di1 Time until disconnect 90 secs Current call connected 00:00:31 Di1 - 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 Dial String Successes Failures Last DNIS Last status 5552000 5 1 00:00:34 Successful Default Venus#**show interface bri0:2** BRI0:2 is up, line protocol is up Hardware is BRI MTU 1500 bytes, BW 64 Kbit, DLY 20000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation PPP, loopback not set Keepalive set (10 sec) Time to interface disconnect: idle 00:01:18 Interface is bound to Di1 (Encapsulation PPP) LCP Open Closed: IPCP Open: **BRIDGECP, CDPCP** *!--- Bridge Control Protocol is open* Last input 00:00:42, output 00:00:00, output hang never Last clearing of "show interface" counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue :0/40 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec 161 packets input, 9796 bytes, 0 no buffer Received 0 broadcasts, 0 runts, 0 giants, 0 throttles 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 328 packets output, 16659 bytes, 0 underruns 0 output errors, 0 collisions, 7 interface resets 0 output buffer failures, 0 output buffers swapped out 16 carrier transitions Venus#**show bridge** Total of 300 station blocks, 298 free Codes: P - permanent, S - self Bridge Group 1: Address Action Interface Age RX count TX count 00d0.58ad.ae13 forward Ethernet0 0 74 58 **0060.5cf4.a955 forward Dialer1 0 58 72** Venus#**show arp** Protocol Address Age (min) Hardware Addr Type Interface Internet 10.1.1.2 - 0060.5cf4.a9a8 ARPA Ethernet0 **Internet 10.1.1.3 0 0060.5cf4.a955 ARPA Dialer1** Venus#**show spanning-tree** Bridge group 1 is executing the ieee compatible Spanning Tree protocol Bridge Identifier has priority 32768, address 0060.5cf4.a9a8 Configured hello time 2, max age 20, forward delay 15 Current root has priority 32768, address 0009.7c2e.ba00 Root port is 2 (Ethernet0), cost of root path is 100 Topology change flag not set, detected flag not set Number of topology changes 1 last change occurred 22:09:28 ago from Ethernet0 Times: hold 1, topology change 35, notification 2 hello 2, max age 20, forward delay 15 Timers: hello 0, topology change 0, notification 0, aging 300 Port 2 (Ethernet0) of Bridge group 1 is forwarding Port path cost 100, Port priority 128, Port Identifier 128.2. Designated root has priority 32768, address 0009.7c2e.ba00 Designated bridge has priority 32768, address 0009.7c2e.ba00 Designated port id is 128.13, designated path cost 0 Timers: message age 2, forward delay 0, hold 0 Number of transitions to forwarding state: 1 BPDU: sent 1, received 39911 **Port 8 (Dialer1) of Bridge group 1 is forwarding** Port path cost 17857, Port priority 128, Port Identifier 128.8. Designated root has priority 32768, address 0009.7c2e.ba00 Designated bridge has priority 32768, address 0060.5cf4.a9a8 Designated port id is 128.8, designated path cost 100 Timers: message age 0, forward delay 0, hold 0 Number of transitions to forwarding state: 1 BPDU: sent 39879, received 0

## Comandos show em discagens Saturn After Venus

Saturn#**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 idle 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 data link layer up Interface bound to profile Di1 Time until disconnect 45 secs **Connected to <unknown phone number> (Venus)** Di1 - 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 Dial String Successes Failures Last DNIS Last status Saturn#**show isdn status** Global ISDN Switchtype = basic-5ess ISDN BRI0 interface dsl 0, interface ISDN Switchtype = basic-5ess Layer 1 Status: ACTIVE Layer 2 Status: TEI = 105, 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=2B, sapi=0, ces=1, B-chan=2, calltype=DATA Active dsl 0 CCBs = 1 The Free Channel Mask: 0x80000001 Number of L2 Discards = 0, L2 Session ID = 37 Total Allocated ISDN CCBs = 1 Saturn#**show arp** Protocol Address Age (min) Hardware Addr Type Interface **Internet 10.1.1.2 27 0060.5cf4.a9a8 ARPA Dialer1 Internet 10.1.1.1 63 00d0.58ad.ae13 ARPA Dialer1** Internet 192.168.1.1 - 0060.5cf4.a955 ARPA Ethernet0 Internet 192.168.1.2 53 0000.0c76.2882 ARPA

```
Ethernet0 Saturn#show spanning-tree No spanning tree instances exist. !--- This router does not run full bridge, !--- so spanning tree does not run on this router Saturn#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 C 10.0.0.0/8 is directly connected, Dialer1 C 192.168.0.0/16 is directly connected, Ethernet0
```

# Troubleshooting

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

## Troubleshooting de Recursos

Os procedimentos de Troubleshooting para chamadas ISDN entrantes e que parte são explicados na tecnologia dialup: Documento das técnicas de Troubleshooting. A informação adicional em como pesquisar defeitos edições da camada de ISDN 1, da camada 2 e da camada 3 é dada em usar o comando show isdn status para o Troubleshooting de BRI e pesquisar defeitos o ISDN BRI mergulham 3 usando o comando debug isdn q931.

## Comandos para Troubleshooting

A Output Interpreter Tool (somente clientes registrados) oferece suporte a determinados comandos show, o que permite exibir uma análise da saída do comando show.

**Nota:** Antes de emitir comandos de depuração, consulte as informações importantes sobre eles.

- **debug dialer** — indica quando o tráfego interessante esteve detectado, e quando discar está iniciado.
- **debug isdn event** — indica a atividade de ISDN que ocorre no lado do usuário da interface, e é similar **debugar o q931 de ISDN**.
- **debugar o q931 de ISDN** — fornece a informação sobre a configuração de chamada e desconexão das conexões de rede ISDN (camada 3), entre o roteador local (lado do usuário) e a rede.
- **debugar isdn q921** — indica os procedimentos de acesso da camada de link de dados (camada 2) que estão ocorrendo no roteador no canal D (LAPD) de sua interface.
- **debugar a negociação ppp** — executa a negociação de opções de PPP e os parâmetros do protocolo network control (NCP).
- **debugar a autenticação de PPP** — permite a troca de pacotes do protocolo challenge authentication (RACHADURA) e do protocolo password authentication (PAP).

## Comandos Debug em Venus quando o tráfego interessante chegar

```
Venus#
*Mar  1 22:00:14.838: BR0 DDR: rotor dialout [priority]
*Mar  1 22:00:14.838: BR0 DDR: Dialing cause bridge (0x0800)
*Mar  1 22:00:14.842: BR0 DDR: Attempting to dial 5552000 *Mar 1 22:00:14.846: ISDN BR0: Outgoing call id = 0x8006, dsl 0 *Mar 1 22:00:14.846: ISDN BR0: Event: Call to 5552000 at 64 Kb/s *Mar 1 22:00:14.850: ISDN BR0: process_bri_call(): call id 0x8006, called_number 5552000, speed 64, call type DATA *Mar 1 22:00:14.854: CCBRI_Go Fr Host InPkgInfo (Len=22) : *Mar 1 22:00:14.858: 1 0 1 80 6 0 4 2 88 90 18 1 83 2C 7 35 35 35 32 30 30 30 *Mar 1 22:00:14.866: *Mar
```

1 22:00:14.870: CC_CHAN_GetIdleChanbri: dsl 0 *Mar 1 22:00:14.870: Found idle channel B1 *Mar 1 22:00:14.886: ISDN BR0: TX -> INFOc sapi=0 tei=106 ns=0 nr=0 i=0x08010605040288901801832C0735353532303030 *Mar 1 22:00:14.906: SETUP pd = 8 callref = 0x06 *Mar 1 22:00:14.914: Bearer Capability i = 0x8890 *Mar 1 22:00:14.918: Channel ID i = 0x83 *Mar 1 22:00:14.92Venus#6: Keypad Facility i = '5552000' *Mar 1 22:00:15.190: ISDN BR0: RX <- INFOc sapi=0 tei=106 ns=0 nr=1 i=0x0801860218018A *Mar 1 22:00:15.198: CALL_PROC pd = 8 callref = 0x86 *Mar 1 22:00:15.206: Channel ID i = 0x8A *Mar 1 22:00:15.222: ISDN BR0: TX -> RRr sapi=0 tei=106 nr=1 *Mar 1 22:00:15.230: CCBRI_Go Fr L3 pkt (Len=7) : *Mar 1 22:00:15.230: 2 1 6 98 18 1 8A *Mar 1 22:00:15.234: *Mar 1 22:00:15.238: ISDN BR0: LIF_EVENT: ces/callid 1/0x8006 HOST_PROCEEDING *Mar 1 22:00:15.238: ISDN BR0: HOST_PROCEEDING *Mar 1 22:00:15.242: ISDN BR0: HOST_MORE_INFO *Mar 1 22:00:15.658: ISDN BR0: RX <- INFOc sapi=0 tei=106 ns=1 nr=1 i=0x08018607 *Mar 1 22:00:15.666: CONNECT pd = 8 callref = 0x86 *Mar 1 22:00:15.678: ISDN BR0: TX -> RRr sapi=0 tei=106 nr=2 *Mar 1 22:00:15.686: CCBRI_Go Fr L3 pkt (Len=4) : *Mar 1 22:00:15.690: 7 1 6 91 *Mar 1 22:00:15.690: *Mar 1 22:00:15.694: ISDN BR0: LIF_EVENT: ces/callid 1/0x8006 HOST_CONNECT 22:00:15: %LINK-3-UPDOWN: **Interface BRI0:2, changed state to up** *Mar 1 22:00:15.702: BR0:2 PPP: Phase is DOWN, Setup [0 sess, 0 load] *Mar 1 22:00:15.706: BR0:2 PPP: No remote authentication for call-out *Mar 1 22:00:15.710: BR0:2 PPP: Phase is ESTABLISHING [0 sess, 0 load] *Mar 1 22:00:15.710: BR0:2 PPP: Treating connection as a callout *Mar 1 22:00:15.714: BR0:2 PPP: No remote authentication for call-out *Mar 1 22:00:15.718: BR0:2 LCP: O CONFREQ [Closed] id 1 len 10 *Mar 1 22:00:15.722: BR0:2 LCP: MagicNumber 0x6515B12A (0x05066515B12A) *Mar 1 22:00:15.722: BR0:2: interface must be fifo queue, force fifo 22:00:15: %DIALER-6-BIND: **Interface BR0:2 bound to profile Di1** *Mar 1 22:00:15.742: ISDN: get_isdn_service_state(): idb 0x1A2DBC bchan 3 is_isdn 1 Not a Pri *Mar 1 22:00:15.746: BR0:2 PPP: Treating connection as a callout *Mar 1 22:00:15.746: ISDN BR0: Event: Connected to 5552000 on B2 at 64 Kb/s *Mar 1 22:00:15.762: ISDN BR0: TX -> INFOc sapi=0 tei=106 ns=1 nr=2 i=0x0801060F *Mar 1 22:00:15.766: CONNECT_ACK pd = 8 callref = 0x06 *Mar 1 22:00:15.774: BR0:2 LCP: I CONFREQ [REQsent] id 1 len 15 *Mar 1 22:00:15.778: BR0:2 LCP: AuthProto CHAP (0x0305C22305) *Mar 1 22:00:15.782: BR0:2 LCP: MagicNumber 0x788C6F8F (0x0506788C6F8F) *Mar 1 22:00:15.786: BR0:2 LCP: O CONFACK [REQsent] id 1 len 15 *Mar 1 22:00:15.790: BR0:2 LCP: AuthProto CHAP (0x0305C22305) *Mar 1 22:00:15.790: BR0:2 LCP: MagicNumber 0x788C6F8F (0x0506788C6F8F) *Mar 1 22:00:15.798: BR0:2 LCP: I CONFACK [ACKsent] id 1 len 10 *Mar 1 22:00:15.798: BR0:2 LCP: MagicNumber 0x6515B12A (0x05066515B12A) *Mar 1 22:00:15.802: BR0:2 LCP: State is Open *Mar 1 22:00:15.806: BR0:2 PPP: Phase is AUTHENTICATING, by the peer [0 sess, 1 load] *Mar 1 22:00:15.870: ISDN BR0: RX <- RRr sapi=0 tei=106 nr=2 *Mar 1 22:00:15.882: BR0:2 CHAP: I CHALLENGE id 31 len 27 from "Saturn" *Mar 1 22:00:15.890: BR0:2 CHAP: O RESPONSE id 31 len 26 from "Venus" *Mar 1 22:00:15.914: BR0:2 **CHAP: I SUCCESS** id 31 len 4 *Mar 1 22:00:15.918: BR0:2 PPP: Phase is UP [0 sess, 1 load] *Mar 1 22:00:15.922: BR0:2 BNCP: O CONFREQ [Closed] id 1 len 4 *Mar 1 22:00:15.926: BR0:2 IPCP: O CONFREQ [Closed] id 1 len 10 *Mar 1 22:00:15.930: BR0:2 IPCP: Address 10.1.1.2 (0x03060A010102) *Mar 1 22:00:15.934: BR0:2 CDPCP: O CONFREQ [Closed] id 1 len 4 *Mar 1 22:00:15.942: BR0:2 BNCP: I CONFREQ [REQsent] id 1 len 4 *Mar 1 22:00:15.946: BR0:2 BNCP: O CONFACK [REQsent] id 1 len 4 *Mar 1 22:00:15.950: BR0:2 CDPCP: I CONFREQ [REQsent] id 1 len 4 *Mar 1 22:00:15.954: BR0:2 CDPCP: O CONFACK [REQsent] id 1 len 4 *Mar 1 22:00:15.958: BR0:2 BNCP: I CONFACK [ACKsent] id 1 len 4 *Mar 1 22:00:15.958: BR0:2 BNCP: State is Open *Mar 1 22:00:15.966: BR0:2 LCP: I PROTREJ [Open] id 2 len 16 protocol IPCP (0x80210101000A03060A010102) *Mar 1 22:00:15.970: BR0:2 IPCP: State is Closed *Mar 1 22:00:15.974: BR0:2 CDPCP: I CONFACK [ACKsent] id 1 len 4 *Mar 1 22:00:15.978: BR0:2 CDPCP: State is Open *Mar 1 22:00:15.978: BR0:2 **DDR: dialer protocol up** 22:00:16: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0:2, changed state to up 22:00:21: %ISDN-6-CONNECT: **Interface BRI0:2 is now connected to 5552000**
Venus# Saturn#
4d16h: ISDN BR0: RX <- UI c/r=1 sapi=0 tei=127
i=0x08014105040288901801 8A7008C135353532303030
4d16h:     SETUP pd = 8  callref = 0x41
4d16h:         Bearer Capability i = 0x8890
4d16h:         Channel ID i = 0x8A
4d16h:         Called Party Number i = 0xC1, '5552000', Plan:ISDN,
Type:Subscriber(local)
4d16h: CCBRI_Go Fr L3 pkt (Len=21) :
4d16h: 5 1 C1 90 4 2 88 90 18 1 8A 70 8 C1 35 35 35 32 30 30 30
4d16h:
4d16h: ISDN BR0: Incoming call id = 0x002B, dsl 0
4d16h: ISDN BR0: LIF_EVENT: ces/callid 1/0x2B HOST_INCOMING_CALL
4d16h: ISDN BR0: HOST_INCOMING_CALL: (non-POTS) DATA
4d16h: ISDN BR0: HOST_INCOMING_CALL: (1) call_type = DATA
4d16h: ISDN BR0: HOST_INCOMING_CALL: voice_answer_data = FALSE call type is DATA

4d16h: ISDN BR0: Event: **Received a DATA call from <unknown> on B2 at 64 Kb/s** 4d16h: ISDN BR0: Event: Accepting the call id 0x2B 4d16h: BR0:2 PPP: Phase is DOWN, Setup [0 sess, 1 load] 4d16h: BR0:2 PPP: Phase is ESTABLISHING [0 sess, 1 load] 4d16h: BR0:2: inteSarface must be fifo queue, force fifo **4d16h: %DIALER-6-BIND: Interface BR0:2 bound to profile Di1** 4d16h: ISDN BR0: RM returned call_type 0 resource type 0 response 1 4d16h: CCBRI_Go Fr Host InPkgInfo (Len=9) : 4d16h: 7 0 1 0 2B 3 18 1 8A 4d16h: 4d16h: ISDN BR0: isdn_send_connect(): msg 4, call id 0x2B, ces 1 bchan 1, c all type DATA 4d16h: %LINK-3-UPDOWN: Interface BRI0:2, changed state to up 4d16h: ISDN: get_isdn_service_state(): idb 0x1A2EAC bchan 3 is_isdn 1 Not a Pri 4d16h: BR0:2 PPP: Treating connection as a callin 4d16h: BR0:2 LCP: State is Listen 4d16h: CCBRI_Go Fr Host InPkgInfo (Len=6) : 4d16h: 4 0 1 0 2B 0 4d16h: 4d16h: ISDN BR0: TX -> INFOc sapi=0 tei=105 ns=7 nr=5 i=0x0801C10218018A 4d16h: CALL_PROC pd = 8 callref = 0xC1 4d16h: Channel ID i = 0x8A 4d16h: ISDN BR0: RX <- RRr sapi=0 tei=105 nr=8 4d16h: ISDN BR0: TX -> INFOc sapi=0 tei=105 ns=8 nr=5 i=0x0801C107 4d16h: CONNECT pd = 8 callref = 0xC1 4d16h: ISDN BR0: RX <- INFOc sapi=0 tei=105 ns=5 nr=9 i=0x0801410F 4d16h: CONNECT_ACK pd = 8 callref = 0x41 4d16h: ISDN BR0: TX -> RRr sapi=0 tei=105 nr=6 4d16h: CCBRI_Go Fr L3 pkt (Len=4) : 4d16h: F 1 C1 92 4d16h: 4d16h: ISDN BR0: LIF_EVENT: ces/callid 1/0x2B HOST_CONNECT 4d16h: ISDN BR0: Event: Connected to <unknown> on B2 at 64 Kb/s 4d16h: BR0:2 LCP: I CONFREQ [Listen] id 1 len 10 4d16h: BR0:2 LCP: MagicNumber 0x6515B12A (0x05066515B12A) 4d16h: BR0:2 LCP: O CONFREQ [Listen] id 1 len 15 4d16h: BR0:2 LCP: AuthProto CHAP (0x0305C22305) 4d16h: BR0:2 LCP: MagicNumber 0x788C6F8F (0x0506788C6F8F) 4d16h: BR0:2 LCP: O CONFACK [Listen] id 1 len 10 4d16h: BR0:2 LCP: MagicNumber 0x6515B12A (0x05066515B12A) 4d16h: BR0:2 LCP: I CONFACK [ACKsent] id 1 len 15 4d16h: BR0:2 LCP: AuthProto CHAP (0x0305C22305) 4d16h: BR0:2 LCP: MagicNumber 0x788C6F8F (0x0506788C6F8F) 4d16h: BR0:2 LCP: State is Open 4d16h: BR0:2 PPP: Phase is AUTHENTICATING, by this end [0 sess, 0 load] 4d16h: BR0:2 CHAP: O CHALLENGE id 31 len 27 from "Saturn" 4d16h: BR0:2 CHAP: I RESPONSE id 31 len 26 from "Venus" 4d16h: BR0:2 **CHAP: O SUCCESS** id 31 len 4 4d16h: BR0:2 PPP: Phase is UP [0 sess, 0 load] 4d16h: BR0:2 BNCP: O CONFREQ [Closed] id 1 len 4 4d16h: BR0:2 CDPCP: O CONFREQ [Closed] id 1 len 4 4d16h: BR0:2 BNCP: I CONFREQ [REQsent] id 1 len 4 4d16h: BR0:2 BNCP: O CONFACK [REQsent] id 1 len 4: BR0:2 IPCP: I CONFREQ [Not negotiated] id 1 len 10 4d16h: BR0:2 IPCP: Address 10.1.1.2 (0x03060A010102) 4d16h: BR0:2 LCP: O PROTREJ [Open] id 2 len 16 protocol IPCP (0x80210101000A03060A010102) 4d16h: BR0:2 CDPCP: I 4d16h CONFREQ [REQsent] id 1 len 4 4d16h: BR0:2 CDPCP: O CONFACK [REQsent] id 1 len 4 4d16h: BR0:2 BNCP: I CONFACK [ACKsent] id 1 len 4 4d16h: BR0:2 BNCP: State is Open 4d16h: BR0:2 CDPCP: I CONFACK [ACKsent] id 1 len 4 4d16h: BR0:2 CDPCP: State is Open 4d16h: BR0:2 DDR: dialer protocol up 4d16h: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0:2, changed state to up 4d16h: %ISDN-6-CONNECT: Interface BRI0:2 is now connected to <unknown phone number> Venus *!--- Unknown phone number because of no dialer string on Saturn* Saturn#

# Informações Relacionadas

- Mais informação em comandos dial-backup
- Suporte tecnológico Cisco - Discagem
- Suporte Técnico - Cisco Systems