在Cisco1600，1700年，2600个和3600个平台上异步调制解调器拨入的Sync-Async端口

目录

简介

本文提供一配置示例为使用同步和异步端口调制解调器拨入在Cisco 1600、1700、2600及3600路由器。以下配置使您连接路由器的同步和异步接口到附加到有DB-60的路由器对RS-232电缆的外部客户端调制解调器。

注意： 如果有USR sportster调制解调器，只有DIP开关3和8应该发生故障。

开始使用前

规则

有关文档规则的详细信息，请参阅 Cisco 技术提示规则。

先决条件

本文档没有任何特定的前提条件。

使用的组件

本文档中的信息根据下面软件版本。

- Cisco IOS 软件版本 12.1

本文档中的信息都是基于特定实验室环境中的设备创建的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您是在真实网络上操作，请确保您在使用任何命令前已经了解其潜在影响。

配置

本部分提供有关如何配置本文档所述功能的信息。

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）。

关于安装网络模块和端口编号的更多信息，参考连接串行网络模块。

网络图

本文档使用下图所示的网络设置。

配置

本文使用如下所示的配置。

路由器 1

```
show running-config

!
version 12.1
service timestamps debug datetime msec
no service password-encryption
!
hostname router1
!
boot system slot1:c3640-i-mz.121-20
!
username test password 0 test!--- Local database entries
for authentication. ! memory-size iomem 10 ip subnet-
zero ! ! interface Loopback0 ip address 1.1.1.1
255.255.255.0 ! interface Ethernet0/0 ip address
10.10.10.1 255.255.255.0 ! interface Serial3/0 no ip
address ! interface Serial3/1 no ip address shutdown !
interface Serial3/2 no ip address shutdown ! interface
Serial3/3 no ip address shutdown ! interface Serial3/4
no ip address shutdown ! interface Serial3/5 no ip
address shutdown ! interface Serial3/6 no ip address
shutdown ! interface Serial3/7 !--- Interface attached
to modem. physical-layer async !--- Put the interface
into async mode. !--- A line appears at the bottom of
the configuration. !--- All the other serial ports on
this module are in sync mode. ip unnumbered Loopback0 !-
-- IP address for the interface. encapsulation ppp async
mode interactive !--- Allow both EXEC and PPP sessions.
peer default ip address pool default !--- Assign IP
address to client. ppp authentication chap !---
Authenticate using Challenge Handshake !---
Authentication Protocol (CHAP). ! ip local pool default
1.1.1.2 !--- Local IP pool of one IP address for client
connect !--- on the external modem connected to
serial3/7. ip classless ip route 0.0.0.0 0.0.0.0
10.10.10.100 ip default-gateway ip http server ! line
con 0 line 104 !--- Line 104 associated with serial 3/7.
```

```
modem InOut !--- Modem attached to line. modem
autoconfigure discovery !--- We are hoping that the
modem is a standard hayes !--- compatible modem. The
configuration worked fine. transport input all
autoselect during-login autoselect ppp transport input
all speed 115200 line aux 0 password <removed> login
line vty 0 4 password <removed> login ! end router1#
```

注意，在物理层异步在接口后配置，新的行号在需要配置的配置里出现(在本例中104)。如果不知道哪线路号关联接口，发出**show line exec命令**查看映射。在所有此配置后，并且所有硬件安装，您必须倒转Telnet到调制解调器锁定在两个设备之间的数据终端设备(DTE)速度。要执行此， Telnet到在UP/UP状态(的方框的所有IP地址回环接口为此是极大的)用x是线路号调制解调器附加的端口号2000+x。在本例中，调制解调器在线路104，因此Telnet到环回地址(1.1.1.1)端口2104。您能然后发出**AT命令**在空行，并且调制解调器应该响应'好'的上一步。断开连接，然后命中数**ctrl-shift-6**有上一步路由器提示然后键入**断开的x**断开连接。

注意： 确保您断开连接否则不会工作。

例如：

```
router1#telnet 1.1.1.1 2104 Trying 1.1.1.1, 2104 ... Open at OK router1#disconnect Closing
connection to 1.1.1.1 [confirm] router1#
```

有时，在DTE速度锁定完全前，您需要发出at&b0&w0命令到调制解调器。在反向Telnet完成后，请拨号到有超级终端(或其他ASCII程序的)路由器并且检查是否能得到路由器提示。设置应该是8N1。如果这工作，则PPP连接应该也运作。

验证

此部分提供您能使用确认所有电缆连接问题的信息。下面同步/异步卡的一个电缆图。并且，请确保您的在线路(104)下的调制解调器硬件状态类似于什么下面解释。

```
Sync/async port(DB60 female)<------( CAB-232MT=, Part# 72-0793-01)-------->External Modem
```

注意： CAB-232MT电缆是DTE电缆，做路由器作为DTE设备。您需要它连接到调制解调器(DCE设备)。如果连接同步/异步端口到终端设备(DTE)，您需要使用做路由器作为DCE设备的DCE电缆(CAB-232FC=)。

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 diag** -显示关于控制器、接口处理器和端口适配器的诊断信息网络设备的。
- **show interfaces serial** -显示关于serial interfaces的信息。
- **show line** -显示终端线路的参数。

```
router1#show diag Slot 0: .... .... <snipped> .... Slot 3: Sync/Async Port adapter, 8 ports Port
adapter is analyzed Port adapter insertion time unknown EEPROM contents at hardware discovery:
Hardware revision 1.0 Board revision H0 Serial number 10532987 Part number 800-01225-02 Test
history 0x0 RMA number 00-00-00 EEPROM format version 1 EEPROM contents (hex): 0x20: 01 25 01 00
00 A0 B8 7B 50 04 C9 02 00 00 00 00 0x30: 88 00 00 00 98 10 23 17 FF FF FF FF FF FF FF FF
router1#show interfaces serial 3/7 Serial3/7 is down, line protocol is down Hardware is CD2430
in async mode MTU 1500 bytes, BW 9 Kbit, DLY 100000 usec, reliability 255/255, txload 1/255,
rxload 1/255 .... router1#show interfaces serial 3/0 Serial3/0 is down, line protocol is down
Hardware is CD2430 in sync mode MTU 1500 bytes, BW 128 Kbit, DLY 20000 usec, reliability
255/255, txload 1/255, rxload 1/255 router1#show line Tty Typ Tx/Rx A Modem Roty AccO AccI Uses
Noise Overruns Int * 0 CTY - - - - - 0 0 0/0 - I 104 TTY 115200/115200 - inout - - - 0 0 0/0
Se3/7 129 AUX 9600/9600 - - - - - 0 0 0/0 - 130 VTY - - - - - 0 0 0/0 - 131 VTY - - - - - 0 0
```

0/0 - 132 VTY - - - - - 0 0 0/0 - 133 VTY - - - - - 0 0 0/0 - 134 VTY - - - - - 0 0 0/0 - Line(s) not in async mode -or- with no hardware support: 1-96, 98-128 router1#**show line 104** Tty Typ Tx/Rx A Modem Roty AccO AccI Uses Noise Overruns Int I 104 TTY **115200/115200**- inout - - - 0 0 0/0 Se3/7 Line 104, Location: "", Type: "" Length: 24 lines, Width: 80 columns Baud rate (TX/RX) is 115200/115200, no parity, 2 stopbits, 8 databits Status: No Exit Banner Capabilities: Modem Callout, Modem RI is CD, Line usable as async interface Modem state: Idle **Modem hardware state: noCTS noDSR DTR RTS** *!--- External connected modem is off.* Special Chars: Escape Hold Stop Start Disconnect Activation **^^x** none - - none Timeouts: Idle EXEC Idle Session Modem Answer Session Dispatch 00:10:00 never none not set Idle Session Disconnect Warning never Login-sequence User Response 00:00:30 Autoselect Initial Wait not set Modem type is unknown. Session limit is not set. Time since activation: never Editing is enabled. History is enabled, history size is 10. DNS resolution in show commands is enabled Full user help is disabled Allowed input transports are pad v120 lapb-ta telnet rlogin udptn. Allowed output transports are pad v120 lapb-ta telnet rlogin. Preferred transport is telnet. No output characters are padded No special data dispatching characters router1# router1#**show line 104** Tty Typ Tx/Rx A Modem Roty AccO AccI Uses Noise Overruns Int 104 TTY 115200/115200 - inout - - - 0 0 0/0 Se3/7 Line 104, Location: "", Type: "" Length: 24 lines, Width: 80 columns Baud rate (TX/RX) is 115200/115200, no parity, 2 stopbits, 8 databits Status: No Exit Banner, CTS Raised Capabilities: Modem Callout, Modem RI is CD Modem state: Idle **Modem hardware state: CTS noDSR DTR RTS** *!--- External connected modem is ON, without any call on it.* Special Chars: Escape Hold Stop Start Disconnect Activation ^^x none - - none Timeouts: Idle EXEC Idle Session Modem Answer Session Dispatch 00:10:00 never none not set Idle Session Disconnect Warning never Login-sequence User Response 00:00:30 Autoselect Initial Wait not set Modem type is unknown. Session limit is not set. Time since activation: never Editing is enabled. History is enabled, history size is 10. DNS resolution in show commands is enabled Full user help is disabled Allowed input transports are pad v120 lapb-ta telnet rlogin udptn. Allowed output transports are pad v120 lapb-ta telnet rlogin. Preferred transport is telnet. No output characters are padded No special data dispatching characters route1# router1#**show line 104** Tty Typ Tx/Rx A Modem Roty AccO AccI Uses Noise Overruns Int *** 104 TTY 115200/115200 - inout - - - 0 1 0/0 Se3/7** Line 104, Location: "", Type: "" Length: 24 lines, Width: 80 columns Baud rate (TX/RX) is 115200/115200, no parity, 2 stopbits, 8 databits Status: PSI Enabled, Ready, Active, No Exit Banner, CTS Raised Automore On Capabilities: Modem Callout, Modem RI is CD Modem state: Ready Modem hardware state: CTS DSR DTR RTS *!--- External connected modem is ON, with an active EXEC call on it.* Special Chars: Escape Hold Stop Start Disconnect Activation ^^x none - - none Timeouts: Idle EXEC Idle Session Modem Answer Session Dispatch 00:10:00 never none not set Idle Session Disconnect Warning never Login-sequence User Response 00:00:30 Autoselect Initial Wait not set Modem type is unknown. Session limit is not set. Time since activation: 00:01:17 Editing is enabled. History is enabled, history size is 10. DNS resolution in show commands is enabled Full user help is disabled Allowed input transports are pad v120 lapb-ta telnet rlogin udptn. Allowed output transports are pad v120 lapb-ta telnet rlogin. Preferred transport is telnet. No output characters are padded No special data dispatching characters router1#**show interfaces serial 3/7** Serial3/7 is down, line protocol is down *!--- External connected modem is ON, with an active call in EXEC mode.* Hardware is CD2430 in async mode Interface is unnumbered. Using address of Loopback0 (10.10.10.10) MTU 1500 bytes, BW 115 Kbit, DLY 100000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation PPP, loopback not set Keepalive not set DTR is pulsed for 5 seconds on reset LCP Closed Closed: IPCP Last input 00:50:32, output 00:51:29, output hang never Last clearing of "show interface" counters 00:00:38 Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: weighted fair Output queue: 0/1000/64/0 (size/max total/threshold/drops) Conversations 0/1/16 (active/max active/max total) Reserved Conversations 0/0 (allocated/max allocated) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec 0 packets input, 0 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 0 packets output, 0 bytes, 0 underruns 0 output errors, 0 collisions, 0 interface resets 0 output buffer failures, 0 output buffers swapped out 0 carrier transitions router1#

故障排除

最验证部分上述提供信息，就电缆连接和异步通信控制信号(CTS DSR DTR RTS)而言。使用上述路由器配置1，用户应该能拨号。

- **EXEC模式**-在EXEC模式，用户能从调制解调器拨使用串行终端工具(类似

hyperterm/procomm)到外置调制解调器连接的同步/异步端口。在成功后请训练在调制解调器之间，用户应该得到router1提示符。所有在上面**显示**in命令部分在对路由器的EXEC连接时收集的验证。

- **PPP模式**-在PPP模式，用户能从调制解调器拨使用WINDOWS拨号联网到在同步连接的外置调制解调器/异步端口。如果拨号在EXEC模式工作， PPP应该也运作，不用任何问题。请确保配置是同一如上所述。要排除故障PPP模式，拨入使用是需要的与毫秒一起打开的以下调试指令计时标记。走在看到的调试线路您多远的粗体在调试进来。如果需要更多信息，请使用以下Ppp故障排除流程图。

故障排除命令

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。

- **service timestamps debug datetime msec** -用于打开标记毫秒的时间的调试。
- **debug modem** -用于观察在接入服务器的调制解调器线路活动。
- **debug ppp协商**-用于发现客户端是否通过PPP协商。
- **debug ppp authentication** -用于发现客户端是否通过验证。
- **debug chat** -用于显示对话脚本活动。
- **debug confmodem** -用于显示信息关联与调制解调器的发现和配置附加对路由器。
- **show debugging** -用于显示关于为您的路由器启用调试的种类的信息。
- **show users** -用于显示关于有效线路的信息在路由器。

请参阅下面命令输出关于故障排除命令示例。

```
router1#configure terminal Enter configuration commands, one per line. End with CNTL/Z.
router1(config)#service timestamps debug datetime msec !--- Turned on millisecond time stamping
for debugs. router1(config)#end router1# router1#debug modem router1#debug ppp negotiation
router1#debug ppp authentication router1#debug chat router1#debug confmodem router1#show
debugging General OS: Modem control/process activation debugging is on PPP: PPP authentication
debugging is on PPP protocol negotiation debugging is on Chat Scripts: Chat scripts activity
debugging is on router1# !--- The following is the above mentioned !--- debugs log collected
from rotuer, !--- when a PPP user tried to dialin with a username = test, password = test.
router1# router1#clear line 104 [confirm] [OK] router1# *Mar 1 00:06:34.563: TTY104: Line reset
by "Exec" *Mar 1 00:06:34.567: TTY104: Modem: IDLE->HANGUP *Mar 1 00:06:34.567: TTY104: destroy
timer type 0 *Mar 1 00:06:34.567: TTY104: destroy timer type 1 *Mar 1 00:06:34.567: TTY104:
destroy timer type 3 *Mar 1 00:06:34.567: TTY104: destroy timer type 4 *Mar 1 00:06:34.567:
TTY104: destroy timer type 2 *Mar 1 00:06:35.139: TTY104: dropping DTR, hanging up *Mar 1
00:06:35.139: tty104: Modem: HANGUP->IDLE *Mar 1 00:06:40.139: TTY104: restoring DTR *Mar 1
00:06:41.139: TTY104: autoconfigure probe started *Mar 1 00:06:41.139: TTY104: Modem command: --
AT&F&C1&D2S0=1H0-- *Mar 1 00:06:43.675: TTY104: Modem configuration succeeded *Mar 1
00:06:43.675: TTY104: Detected modem speed 115200 *Mar 1 00:06:43.675: TTY104: Done with modem
configuration router1# router1# !--- Below are debugs when the PPP user tried to dialin. *Mar 1
00:08:43.163: TTY104: DSR came up *Mar 1 00:08:43.163: tty104: Modem: IDLE->(unknown) *Mar 1
00:08:43.163: TTY104: Autoselect started *Mar 1 00:08:43.163: TTY104: create timer type 0, 120
seconds *Mar 1 00:08:44.699: TTY104: Autoselect sample 7E *Mar 1 00:08:44.699: TTY104:
Autoselect sample 7EFF *Mar 1 00:08:44.699: TTY104: Autoselect sample 7EFF7D *Mar 1
00:08:44.699: TTY104: Autoselect sample 7EFF7D23 *Mar 1 00:08:44.699: TTY104 Autoselect cmd: ppp
negotiate *Mar 1 00:08:44.699: TTY104: destroy timer type 0 (OK) *Mar 1 00:08:44.703: TTY104:
EXEC creation *Mar 1 00:08:44.703: TTY104: create timer type 1, 600 seconds *Mar 1 00:08:44.707:
TTY104: destroy timer type 1 (OK) *Mar 1 00:08:44.707: TTY104: destroy timer type 0 00:08:46:
%LINK-3-UPDOWN: Interface Serial3/7, changed state to up *Mar 1 00:08:46.707: Se3/7 PPP:
Treating connection as a dedicated line *Mar 1 00:08:46.707: Se3/7 PPP: Phase is ESTABLISHING,
Active Open *Mar 1 00:08:46.707: Se3/7 LCP: O CONFREQ [Closed] id 3 len 25 *Mar 1 00:08:46.707:
```

Se3/7 LCP: ACCM 0x000A0000 (0x0206000A0000) *Mar 1 00:08:46.707: Se3/7 LCP: AuthProto CHAP (0x0305C22305) *Mar 1 00:08:46.707: Se3/7 LCP: MagicNumber 0x0014A697 (0x05060014A697) *Mar 1 00:08:46.707: Se3/7 LCP: PFC (0x0702) *Mar 1 00:08:46.707: Se3/7 LCP: ACFC (0x0802) *Mar 1 00:08:46.863: Se3/7 LCP: I CONFACK [REQsent] id 3 len 25 *Mar 1 00:08:46.863: Se3/7 LCP: ACCM 0x000A0000 (0x0206000A0000) *Mar 1 00:08:46.863: Se3/7 LCP: AuthProto CHAP (0x0305C22305) *Mar 1 00:08:46.863: Se3/7 LCP: MagicNumber 0x0014A697 (0x05060014A697) *Mar 1 00:08:46.863: Se3/7 LCP: PFC (0x0702) *Mar 1 00:08:46.863: Se3/7 LCP: ACFC (0x0802) *Mar 1 00:08:47.703: Se3/7 LCP: I CONFREQ [ACKrcvd] id 2 len 50 *Mar 1 00:08:47.703: Se3/7 LCP: ACCM 0x00000000 (0x020600000000) *Mar 1 00:08:47.703: Se3/7 LCP: MagicNumber 0x44B3482A (0x050644B3482A) *Mar 1 00:08:47.703: Se3/7 LCP: PFC (0x0702) *Mar 1 00:08:47.703: Se3/7 LCP: ACFC (0x0802) *Mar 1 00:08:47.703: Se3/7 LCP: Callback 6 (0x0D0306) *Mar 1 00:08:47.703: Se3/7 LCP: MRRU 1614 (0x1104064E) *Mar 1 00:08:47.703: Se3/7 LCP: EndpointDisc 1 Local *Mar 1 00:08:47.703: Se3/7 LCP: (0x131701362F5B168BFB407785EE942EB8) *Mar 1 00:08:47.703: Se3/7 LCP: (0xEF5D0700000000) *Mar 1 00:08:47.703: Se3/7 LCP: O CONFREJ [ACKrcvd] id 2 len 11 *Mar 1 00:08:47.703: Se3/7 LCP: Callback 6 (0x0D0306) *Mar 1 00:08:47.707: Se3/7 LCP: MRRU 1614 (0x1104064E) *Mar 1 00:08:47.855: Se3/7 LCP: I CONFREQ [ACKrcvd] id 3 len 43 *Mar 1 00:08:47.855: Se3/7 LCP: ACCM 0x00000000 (0x020600000000) *Mar 1 00:08:47.855: Se3/7 LCP: MagicNumber 0x44B3482A (0x050644B3482A) *Mar 1 00:08:47.855: Se3/7 LCP: PFC (0x0702) *Mar 1 00:08:47.855: Se3/7 LCP: ACFC (0x0802) *Mar 1 00:08:47.855: Se3/7 LCP: EndpointDisc 1 Local *Mar 1 00:08:47.855: Se3/7 LCP: (0x131701362F5B168BFB407785EE942EB8) *Mar 1 00:08:47.855: Se3/7 LCP: (0xEF5D0700000000) *Mar 1 00:08:47.855: Se3/7 LCP: O CONFACK [ACKrcvd] id 3 len 43 *Mar 1 00:08:47.855: Se3/7 LCP: ACCM 0x00000000 (0x020600000000) *Mar 1 00:08:47.855: Se3/7 LCP: MagicNumber 0x44B3482A (0x050644B3482A) *Mar 1 00:08:47.855: Se3/7 LCP: PFC (0x0702) *Mar 1 00:08:47.859: Se3/7 LCP: ACFC (0x0802) *Mar 1 00:08:47.859: Se3/7 LCP: EndpointDisc 1 Local *Mar 1 00:08:47.859: Se3/7 LCP: (0x131701362F5B168BFB407785EE942EB8) *Mar 1 00:08:47.859: Se3/7 LCP: (0xEF5D0700000000) *Mar 1 00:08:47.859: Se3/7 LCP: State is Open *Mar 1 00:08:47.859: Se3/7 PPP: Phase is AUTHENTICATING, by this end *Mar 1 00:08:47.859: Se3/7 **CHAP**: O CHALLENGE id 2 len 28 from "router1" *Mar 1 00:08:48.015: Se3/7 LCP: I IDENTIFY [Open] id 4 len 18 magic 0x44B3482A MSRASV5.00 *Mar 1 00:08:48.031: Se3/7 LCP: I IDENTIFY [Open] id 5 len 27 magic 0x44B3482A MSRAS-1-IRAH-W2K *Mar 1 00:08:48.043: Se3/7 **CHAP: I RESPONSE id 2 len 25 from "test"** *Mar 1 00:08:48.043: Se3/7 **CHAP: O SUCCESS** id 2 len 4 *Mar 1 00:08:48.047: Se3/7 PPP: Phase is UP *Mar 1 00:08:48.047: Se3/7 IPCP: O CONFREQ [Closed] id 2 len 10 *Mar 1 00:08:48.047: Se3/7 IPCP: Address 10.10.10.10 (0x03060A0A0A0A) *Mar 1 00:08:48.175: Se3/7 CCP: I CONFREQ [Not negotiated] id 6 len 10 *Mar 1 00:08:48.175: Se3/7 CCP: MS-PPC supported bits 0x00000001 (0x120600000001) *Mar 1 00:08:48.175: Se3/7 LCP: O PROTREJ [Open] id 4 len 16 protocol CCP (0x80FD0106000A120600000001) *Mar 1 00:08:48.191: Se3/7 IPCP: I CONFREQ [REQsent] id 7 len 40 *Mar 1 00:08:48.191: Se3/7 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) *Mar 1 00:08:48.191: Se3/7 IPCP: Address 0.0.0.0 (0x030600000000) *Mar 1 00:08:48.191: Se3/7 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) *Mar 1 00:08:48.195: Se3/7 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000) *Mar 1 00:08:48.195: Se3/7 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) *Mar 1 00:08:48.195: Se3/7 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) *Mar 1 00:08:48.195: Se3/7 IPCP: O CONFREJ [REQsent] id 7 len 34 *Mar 1 00:08:48.195: Se3/7 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) *Mar 1 00:08:48.195: Se3/7 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) *Mar 1 00:08:48.195: Se3/7 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000) *Mar 1 00:08:48.195: Se3/7 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) *Mar 1 00:08:48.195: Se3/7 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) *Mar 1 00:08:48.199: Se3/7 IPCP: I CONFACK [REQsent] id 2 len 10 *Mar 1 00:08:48.199: Se3/7 IPCP: Address 10.10.10.10 (0x03060A0A0A0A) *Mar 1 00:08:48.343: Se3/7 IPCP: I CONFREQ [ACKrcvd] id 8 len 10 *Mar 1 00:08:48.343: Se3/7 IPCP: Address 0.0.0.0 (0x030600000000) *Mar 1 00:08:48.343: Se3/7 IPCP: O CONFNAK [ACKrcvd] id 8 len 10 *Mar 1 00:08:48.343: Se3/7 IPCP: Address 1.1.1.2 (0x030601010102) *Mar 1 00:08:48.483: Se3/7 IPCP: I CONFREQ [ACKrcvd] id 9 len 10 *Mar 1 00:08:48.483: Se3/7 IPCP: Address 1.1.1.2 (0x030601010102) *Mar 1 00:08:48.483: Se3/7 IPCP: O CONFACK [ACKrcvd] id 9 len 10 *Mar 1 00:08:48.483: Se3/7 IPCP: Address 1.1.1.2 (0x030601010102) *Mar 1 00:08:48.487: Se3/7 IPCP: State is Open *Mar 1 00:08:48.487: Se3/7 IPCP: **Install route to 1.1.1.2** 00:08:49: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/7, changed state to up router1# router1#**show interfaces serial 3/7** Serial3/7 is up, line protocol is up Hardware is CD2430 in async mode Interface is unnumbered. Using address of Loopback0 (10.10.10.10) MTU 1500 bytes, BW 115 Kbit, DLY 100000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation PPP, loopback not set Keepalive not set DTR is pulsed for 5 seconds on reset LCP Open Open: IPCP Last input 00:00:00, output 00:00:09, output hang never Last clearing of "show interface" counters 00:08:42 Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: weighted fair Output queue: 0/1000/64/0 (size/max total/threshold/drops) Conversations 0/1/16 (active/max active/max total) Reserved Conversations 0/0 (allocated/max allocated) 5 minute input rate 0 bits/sec, 1 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec 157 packets

input, 10790 bytes, 0 no buffer Received 0 broadcasts, 0 runts, 0 giants, 0 throttles 2 input errors, 2 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 26 packets output, 975 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 output buffer failures, 0 output buffers swapped out 0 carrier transitions router1#**show users** Line User Host(s) Idle Location * 0 con 0 idle 00:00:00 104 tty 104 test Async interface 00:00:01 PPP: 1.1.1.2 Interface User Mode Idle Peer Address router1#**ping 1.1.1.2** Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 1.1.1.2, timeout is 2 seconds: !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 156/163/172 ms router1#

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