

# Configuración de respaldo asíncrono de puertos AUX a AUX con vigilancia de programas de marcado

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## [Introducción](#)

Este documento proporciona la información sobre configurar el respaldo del Dial-on-Demand Routing (DDR) para un serial, PÁLIDO, o el link de línea arrendada usando la función de vigilancia del dialer. El link de backup utiliza los módems en los puertos auxiliares de ambos Routers. Cuando va el link principal abajo, el Monitoreo de marcado inicia el discador de backup usando el módem en el puerto auxiliar.

## [prerrequisitos](#)

### [Requisitos](#)

Este documento asume que usted posee un buen conocimiento básico de diversos problemas asociados con módems en puertos AUX. Si usted necesita más información sobre estos problemas, refiera por favor a la [guía para la conexión del módem-router de los documentos y dialout el configurar usando un módem en el puerto auxiliar](#) antes de continuar encendido con este documento.

## [Componentes Utilizados](#)

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- Dos Cisco 2600s con los módems de US Robotics conectados con los puertos auxiliares. Ambo Routers está funcionando con el Software Release 12.1(2) de Cisco IOS®.

Se recomienda que usted utiliza la versión deL Cisco IOS 12.1(7) o más adelante, que incluye los arreglos para los bug IOS que afectan al Monitoreo de marcado.

La información que se presenta en este documento se originó a partir de dispositivos dentro de un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener un comando antes de ejecutarlo.

## [Convenciones](#)

Para obtener más información sobre las convenciones del documento, consulte las [Convenciones de Consejos Técnicos de Cisco](#).

## [Teoría Precedente](#)

Este escenario implica el configurar del dialin y del dialout usando los módems en los puertos auxiliares, y el configurar del backup DDR con el Monitoreo de marcado. Para más información sobre la función de vigilancia del dialer, refiera a las [evaluaciones de la interfaz de respaldo, a las Rutas estáticas flotantes, y al Monitoreo de marcado para el backup DDR](#).

Refiera a [configurar el backup DDR usando los BRI y el Monitoreo de marcado](#) para la información sobre cómo configurar y resolver problemas el Monitoreo de marcado. Los conceptos implicados para el Monitoreo de marcado son independiente de los media usados, de modo que el documento sea útil para los problemas del Monitoreo de marcado.

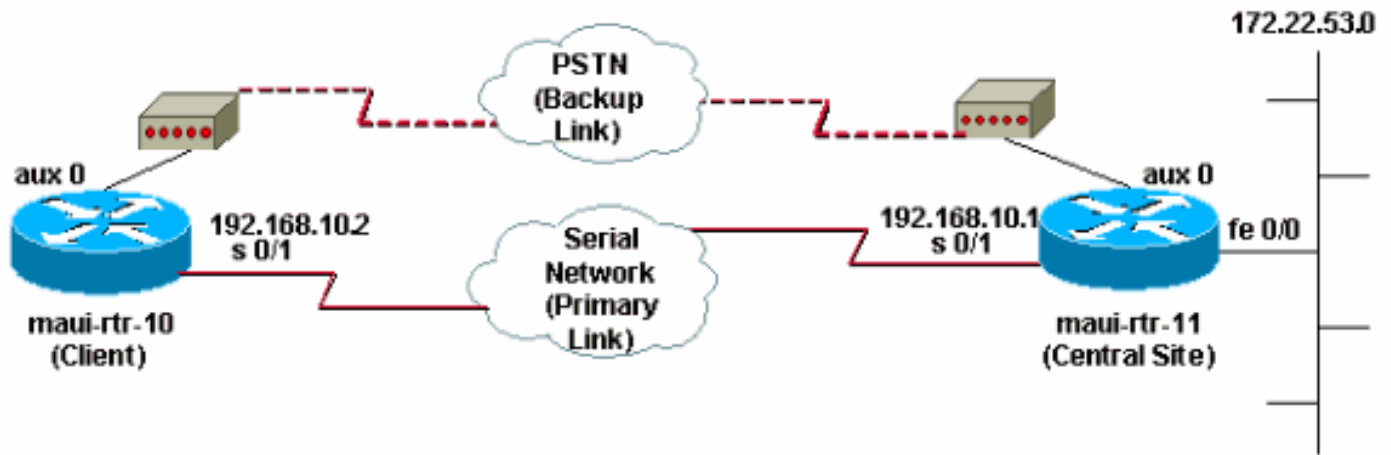
## [Configurar](#)

En esta sección encontrará la información para configurar las funciones descritas en este documento.

**Nota:** Para obtener información adicional sobre los comandos que se utilizan en este documento, use la Command Lookup Tool (solo para clientes [registrados](#)).

## [Diagrama de la red](#)

Este documento utiliza la configuración de red que se muestra en este diagrama:



## Configuraciones

En esta configuración, maui-rtr-10 (cliente) es conectado por un link serial con maui-rtr-11 (sitio central). Ambo Routers también tiene módems externos de US Robotics conectados con los puertos auxiliares y usados como respaldo. Cuando va el link principal abajo, el Monitoreo de marcado inicia el link de backup y maui-rtr-10 marca al router del sitio central, conecta, negocia el PPP, e intercambia la información de ruteo del Open Shortest Path First (OSPF). Todo el tráfico entre el Routers ahora utiliza la conexión de respaldo. Cuando se restablece el link principal, la tabla de ruteo es actualizada y todo el tráfico utiliza de nuevo el link principal. Desde ningunos flujos de tráfico en el link de backup, el tiempo de inactividad expira y el Monitoreo de marcado derriba el link de backup.

### maui-rtr-10 (cliente)

```
maui-rtr-10#show running-config Building
configuration... Current configuration: ! version 12.1
service timestamps debug datetime msec service
timestamps log datetime msec no service password-
encryption ! hostname maui-rtr-10 ! aaa new-model aaa
authentication login default local aaa authentication
login NO_AUTHEN none aaa authentication ppp default
local !--- This is the basic AAA configuration for PPP
calls. enable secret 5 <deleted> ! username admin
password 0 <deleted> username maui-rtr-11 password 0
cisco !--- Username for remote router (maui-rtr-11) and
shared secret !--- password. Shared secret (used for
Challenge Handshake Authentication !--- Protocol [CHAP]
authentication) must be the same on both sides. ! ip
subnet-zero ! chat-script Dialout ABORT ERROR ABORT BUSY
"" "AT" OK "ATDT \T" TIMEOUT 45 CONNECT \c !--- Chat
script named "Dialout" is used for the backup dialout.
modemcap entry MY_USR_MODEM:MSC=&F1S0;=1 !--- Modemcap
named "MY_USR_MODEM" will be applied to the AUX !---
port line interface. This modemcap was created with the
!--- modemcap edit MY_USR_MODEM miscellaneous &F1S0;=1
command !--- Refer to the Modem-Router Connection Guide
for more information. ! interface Loopback0 ip address
172.17.1.1 255.255.255.0 ! interface Ethernet0/0 ip
address 172.16.1.1 255.255.255.0 no keepalive !
interface Serial0/0 no ip address shutdown no fair-queue
! interface Serial0/1 !--- This is the primary link. ip
address 192.168.10.2 255.255.255.252 encapsulation ppp
clockrate 64000 ppp authentication chap ! interface
Async65 !--- Async interface corresponding to the AUX
Port (backup link). !--- This was determined using the
```

```

show line command. ip unnumbered Loopback0 !--- This
assigns the Loopback 0 IP address to this interface. !--
- The central router will have a dialer map to this
loopback address. encapsulation ppp dialer in-band !---
Allow DDR on this interface. dialer idle-timeout 30 !---
Idle timeout (in seconds) for this link. !--- Dialer
watch checks the status of the primary link !--- every
time the idle-timeout expires. dialer watch-disable 15
!--- Delays disconnection of the backup interface (for
15 seconds) after !--- the primary interface is found to
be up. dialer map ip 172.22.1.1 name maui-rtr-11
broadcast 84007 !--- Dialer map for the AUX Port
interface of the central router. !--- Remember that the
central router's AUX port is unnumbered to its Loopback
0. dialer map ip 172.22.53.0 name maui-rtr-11 broadcast
84007 !--- Map statement for the route or network being
watched. !--- Address must exactly match the network
configured with !--- the dialer watch-list command. !---
Dials the phone number specified when the watched route
disappears. dialer watch-group 8 !--- Enable dialer
watch on this backup interface. !--- Watch the route
specified with dialer watch-list 8. dialer-group 1 !---
Apply interesting traffic defined in dialer-list 1.
async default routing !--- Permit routing over the async
interface. !--- This is required for a routing protocol
to run across the async link. async mode interactive ppp
authentication chap ! router ospf 5 network 172.16.1.0
0.0.0.255 area 0 network 172.17.1.0 0.0.0.255 area 0
network 192.168.10.0 0.0.0.3 area 0 ! ip classless no ip
http server ! access-list 101 remark Define Interesting
Traffic access-list 101 deny ospf any any !--- Mark OSPF
as uninteresting. !--- This prevents OSPF hellos from
keeping the link up. access-list 101 permit ip any any !
dialer watch-list 8 ip 172.22.53.0 255.255.255.0 !---
Define the route to be watched. !--- This exact route
(including subnet mask) must exist in the routing table.
dialer-list 1 protocol ip list 101 !--- Interesting
traffic is defined by access-list 101. !--- This is
applied to BRI0 using dialer-group 1. ! line con 0 login
authentication NO_AUTHEN transport input none line Aux 0
!--- Line configuration for the AUX port. exec-timeout 0
0 !--- Disable exec timeout on the interface. autoselect
ppp script dialer Dialout !--- Use the chat script named
"Dialout" for outgoing calls. modem InOut !--- Enable
incoming and outgoing calls. modem autoconfigure type
MY_USR_MODEM !--- Apply the modemcap MY_USR_MODEM
(configured previously) !--- to initialize the modem.
transport input all stopbits 1 !--- Improve throughput
by reducing async framing overhead. speed 115200 !---
AUX port on the 2600 supports a speed of 115200. !---
Note: If you are routing through the AUX port, each
character generates a !--- processor interrupt. This is
an abnormally high load on the CPU, which can be !---
resolved by using a lower AUX port speed. flowcontrol
hardware !--- This configures Ready To Send/Clear To
Send (RTS/CTS) flow control. line vty 0 4 ! no scheduler
allocate end

```

### maui-rtr-11 (sitio central)

```

maui-rtr-11#show running-config Building
configuration... Current configuration: ! version 12.1
service timestamps debug uptime service timestamps log
uptime no service password-encryption ! hostname maui-
rtr-11 ! aaa new-model aaa authentication login default

```

```

local aaa authentication login NO_AUTHEN none aaa
authentication ppp default local !--- This is the basic
AAA configuration for PPP calls. enable secret 5
<deleted> ! username admin password 0 <deleted> username
maui-rtr-10 password 0 cisco !--- Username for remote
router (maui-rtr-10) and shared secret. !--- Shared
secret (used for CHAP authentication) must be the same
on both sides. ! memory-size iomem 30 ! ip subnet-zero !
modemcap entry MY_USR_MODEM:MSC=&F1S0;=1 !--- Modemcap
(MY_USR_MODEM) will be applied to the AUX port line
interface. !--- This modemcap was created with the
command !--- modemcap edit MY_USR_MODEM miscellaneous
&F1S0;=1 !--- Refer to the Modem-Router Connection Guide
for more information. ! interface Loopback0 ip address
172.22.1.1 255.255.255.0 ! interface FastEthernet0/0 !--
- Interface to corporate network. ip address
172.22.53.105 255.255.255.0 no keepalive duplex auto
speed auto ! !--- Irrelevant output removed here. !
interface Serial0/1 !--- This is the primary link. ip
address 192.168.10.1 255.255.255.252 encapsulation ppp
ppp authentication chap ! interface Serial0/2 no ip
address shutdown ! interface Async65 !--- Async
interface corresponding to the AUX Port (backup link).
!--- This was determined using the show line command. ip
unnumbered Loopback0 !--- Use Loopback 0 address for
this interface. !--- The remote router will have a
dialer map to this loopback address. encapsulation ppp
dialer in-band dialer idle-timeout 900 dialer map ip
172.17.1.1 name maui-rtr-10 broadcast !--- Dialer map
for the AUX Port interface of the remote router. !---
Remember that the remote router AUX port is unnumbered
to its Loopback 0. dialer-group 1 !--- Apply interesting
traffic defined in dialer-list 1. async default routing
!--- Permit routing over the async interface. !--- This
is required for a routing protocol to run across the
async link. async mode interactive !--- Requires
autoselect PPP under the line configuration PPP to be
negotiated. !--- This command may be replaced with async
mode dedicated. no peer default ip address !--- Do not
assign the peer an IP address. ppp authentication chap !
router ospf 5 network 172.22.1.0 0.0.0.255 area 0
network 172.22.53.0 0.0.0.255 area 0 network
192.168.10.0 0.0.0.3 area 0 ! ip classless no ip http
server ! dialer-list 1 protocol ip permit !--- Mark all
IP traffic as interesting. !--- This interesting traffic
definition is applied to BRI0 !--- using dialer-group 1.
! ! line con 0 login authentication NO_AUTHEN transport
input none line aux 0 !--- AUX Port line configuration.
autoselect ppp !--- Launch PPP negotiation when PPP
packets are received. !--- If the Async Interface has
async mode dedicated, !--- this command is not needed.
modem InOut !--- Enable incoming and outgoing calls.
modem autoconfigure type MY_USR_MODEM !--- Apply the
modemcap MY_USR_MODEM that was configured previously.
transport input all stopbits 1 !--- Improve throughput
by reducing async framing overhead. speed 115200 !---
AUX port on the 2600 supports a speed of 115200.
flowcontrol hardware !--- Configures RTS/CTS flow
control. line vty 0 4 ! no scheduler allocate end

```

## Verificación

En esta sección encontrará información que puede utilizar para comprobar que su configuración funcione correctamente.

La herramienta del [Output Interpreter \(clientes registrados solamente\)](#) soportan a los ciertos comandos show, que permite que usted vea una análisis de la salida del comando show.

## [Ejemplo de resultado del comando show](#)

La tabla de ruteo del cliente (maui-rtr-10) con el funcionamiento del link principal se muestra aquí:

```
maui-rtr-10#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 192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks C 192.168.10.0/30 is
directly connected, Serial0/1 C 192.168.10.1/32 is directly connected, Serial0/1 172.17.0.0/24
is subnetted, 1 subnets C 172.17.1.0 is directly connected, Loopback0 172.16.0.0/24 is
subnetted, 1 subnets C 172.16.1.0 is directly connected, Ethernet0/0 172.22.0.0/16 is variably
subnetted, 2 subnets, 2 masks O 172.22.53.0/24 [110/65] via 192.168.10.1, 00:00:57, Serial0/1 O
172.22.1.1/32 [110/65] via 192.168.10.1, 00:00:59, Serial0/1
```

El comando `show ip route` hizo salir mostrado arriba visualiza las OSPF rutas aprendidas de los pares que usaban el link principal (serial 0/1). Note que la ruta que es mirada (172.22.53.0 con la máscara 255.255.255.0) existe en la tabla de ruteo. Esto se debe verificar para que el Monitoreo de marcado funcione correctamente.

Ahora se derriba el link principal y el Monitoreo de marcado activa el link de backup.

Después de que se active el link de backup, tabla OSPF se intercambia y la nueva ruta usando el link de backup está instalada. El tráfico ahora pasa a través del link de backup. Un ejemplo de esto se muestra aquí:

```
maui-rtr-10#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 172.17.0.0/24 is subnetted, 1 subnets C 172.17.1.0 is directly connected, Loopback0
172.16.0.0/24 is subnetted, 1 subnets C 172.16.1.0 is directly connected, Ethernet0/0
172.22.0.0/16 is variably subnetted, 2 subnets, 2 masks O 172.22.53.0/24 [110/870] via
172.22.1.1, 00:00:11, Async65 C 172.22.1.1/32 is directly connected, Async65
```

La salida antedicha muestra que se ha puesto al día la tabla de ruteo y todo el tráfico para la red vigilada ahora utiliza el link de backup (async 65).

## [Troubleshooting](#)

En esta sección encontrará información que puede utilizar para solucionar problemas de configuración.

## [Comandos para resolución de problemas](#)

La herramienta del [Output Interpreter \(clientes registrados solamente\)](#) soportan a los ciertos comandos show, que permite que usted vea una análisis de la salida del comando show.

**Nota:** [Antes de ejecutar un comando de depuración, consulte Información importante sobre comandos de depuración.](#)

- debug dialer – Para mostrar la información de depuración sobre los paquetes recibidos en una interfaz del marcador. Cuando DDR está habilitado en la interfaz, también se muestra la información relativa a la causa de cualquier llamada (denominada la causa de marcación). [Si desea obtener más información, consulte los datos sobre depuración de dialer en la documentación de comandos de depuración.](#)
- debug modem — Para mostrar la actividad de línea del módem, el control del módem y los mensajes de activación del proceso en el router.
- debug chat — Para supervisar la ejecución de la secuencia de comandos de conversación cuando se inicia la marcación asincrónica/POTS. Refiera a la [tecnología de marcación manual: Técnicas de resolución de problemas para obtener más información.](#)
- debug ppp negotiation—Muestra información sobre el tráfico PPP y los intercambios mientras se negocian los componentes del PPP que incluyen el LCP (Protocolo de control de link), la autenticación y el NCP (Protocolo de control de red). Una negociación PPP exitosa abre primero el estado LCP, luego realiza la autenticación y por último negocia el NCP.
- autenticación PPP del debug — Visualiza los mensajes de protocolo de la autenticación PPP, incluyendo los intercambios de paquetes del protocolo challenge authentication (GRIETA) y los intercambios del protocolo password authentication (PAP)

## [Ejemplo de resultado del comando debug](#)

La salida de los debugs abajo muestra el fall y el Monitoreo de marcado del link principal que reconocen la ruta perdida. El router entonces inicia el link de backup. Después de que expire el ocioso-descanso del marcador, el router marca si el link principal está abajo. Cuando se restablece el link principal, el Monitoreo de marcado desconecta el link de backup después de que expire el temporizador de la neutralización. Al mirar los debugs, preste la atención al grupo fecha/hora en cada mensaje como pueden proporcionar la información sobre los diversos temporizadores y tiempos de inactividad que son activos.

```
maui-rtr-10#debug dialer Dial on demand events debugging is on maui-rtr-10#debug chat Chat
scripts activity debugging is on maui-rtr-10#debug modem Modem control/process activation
debugging is on maui-rtr-10#debug ppp negotiation PPP protocol negotiation debugging is on maui-
rtr-10#debug ppp authentication PPP authentication debugging is on maui-rtr-10# maui-rtr-10#
maui-rtr-10# maui-rtr-10# maui-rtr-10# *Mar 3 17:00:28.136: %LINK-3-UPDOWN: Interface Serial0/1,
changed state to down !--- Primary link is brought down. *Mar 3 17:00:28.140: Se0/1 IPCP: State
is Closed *Mar 3 17:00:28.140: Se0/1 CDPCP: State is Closed *Mar 3 17:00:28.140: Se0/1 PPP:
Phase is TERMINATING *Mar 3 17:00:28.140: Se0/1 LCP: State is Closed *Mar 3 17:00:28.140: Se0/1
PPP: Phase is DOWN *Mar 3 17:00:28.144: Se0/1 IPCP: Remove route to 192.168.10.1 *Mar 3
17:00:28.252: DDR: Dialer Watch: watch-group = 8 !--- Use dialer watch-group 8. *Mar 3
17:00:28.252: DDR: network 172.22.53.0/255.255.255.0 DOWN, *Mar 3 17:00:28.252: DDR: primary
DOWN !--- The primary network is down. *Mar 3 17:00:28.252: DDR: Dialer Watch: Dial Reason:
Primary of group 8 DOWN !--- Dial reason is that the primary route is down. *Mar 3 17:00:28.252:
DDR: Dialer Watch: watch-group = 8, *Mar 3 17:00:28.252: DDR: dialing secondary by dialer map
172.22.53.0 on As65 !--- Indicates which dialer map statement is used for the dialout. !---
Dialout will occur on AS 65 (the AUX Port). *Mar 3 17:00:28.252: As65 DDR: Attempting to dial
84007 !--- Number being dialed for the backup link. *Mar 3 17:00:28.252: CHAT65: Attempting
async line dialer script *Mar 3 17:00:28.256: CHAT65: Dialing using Modem script: Dialout &
System script: none !--- Using chat script "Dialout". *Mar 3 17:00:28.268: CHAT65: process
started *Mar 3 17:00:28.273: CHAT65: Asserting DTR *Mar 3 17:00:28.273: TTY65: Set DTR to 1 *Mar
3 17:00:28.273: CHAT65: Chat script Dialout started !--- Chat script "Dialout" starts. *Mar 3
17:00:28.273: CHAT65: Sending string: AT *Mar 3 17:00:28.273: CHAT65: Expecting string: OK *Mar
3 17:00:28.433: CHAT65: Completed match for expect: OK *Mar 3 17:00:28.433: CHAT65: Sending
string: ATDT \T<84007> *Mar 3 17:00:28.433: CHAT65: Expecting string: CONNECT *Mar 3
```

17:00:29.138: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1, changed state to down  
\*Mar 3 17:00:42.560: CHAT65: Completed match for expect: CONNECT \*Mar 3 17:00:42.560: CHAT65:  
Sending string: \c \*Mar 3 17:00:42.560: CHAT65: Chat script **Dialout finished, status = Success**  
*!--- Chat script is successful. !--- Notice the Expect/Send Attributes and the time elapsed.*  
\*Mar 3 17:00:42.564: TTY65: destroy timer type 1 \*Mar 3 17:00:42.564: TTY65: destroy timer type  
0 \*Mar 3 17:00:42.568: As65 IPCP: Install route to 172.22.53.0 \*Mar 3 17:00:44.567: %LINK-3-  
UPDOWN: Interface Async65, changed state to up Dialer statechange to up Async65 \*Mar 3  
17:00:44.571: As65 DDR: Dialer Watch: resetting call in progress Dialer call has been placed  
Async65 \*Mar 3 17:00:44.571: As65 PPP: Treating connection as a callout *!--- PPP negotiation  
begins.* \*Mar 3 17:00:44.571: As65 PPP: Phase is ESTABLISHING, Active Open \*Mar 3 17:00:44.571:  
As65 LCP: O CONFREQ [Closed] id 11 len 25 \*Mar 3 17:00:44.571: As65 LCP: ACCM 0x000A0000  
(0x0206000A0000) \*Mar 3 17:00:44.575: As65 LCP: AuthProto CHAP (0x0305C22305) \*Mar 3  
17:00:44.575: As65 LCP: MagicNumber 0x103EC1ED (0x0506103EC1ED) \*Mar 3 17:00:44.575: As65 LCP:  
PFC (0x0702) \*Mar 3 17:00:44.575: As65 LCP: ACFC (0x0802) \*Mar 3 17:00:46.575: As65 LCP:  
TIMEout: State REQsent \*Mar 3 17:00:46.575: As65 LCP: O CONFREQ [REQsent] id 12 Len 25 \*Mar 3  
17:00:46.575: As65 LCP: ACCM 0x000A0000 (0x0206000A0000) \*Mar 3 17:00:46.575: As65 LCP:  
AuthProto CHAP (0x0305C22305) \*Mar 3 17:00:46.575: As65 LCP: MagicNumber 0x103EC1ED  
(0x0506103EC1ED) \*Mar 3 17:00:46.575: As65 LCP: PFC (0x0702) \*Mar 3 17:00:46.575: As65 LCP: ACFC  
(0x0802) \*Mar 3 17:00:46.703: As65 LCP: I CONFACK [REQsent] id 12 Len 25 \*Mar 3 17:00:46.707:  
As65 LCP: ACCM 0x000A0000 (0x0206000A0000) \*Mar 3 17:00:46.707: As65 LCP: AuthProto CHAP  
(0x0305C22305) \*Mar 3 17:00:46.707: As65 LCP: MagicNumber 0x103EC1ED (0x0506103EC1ED) \*Mar 3  
17:00:46.707: As65 LCP: PFC (0x0702) \*Mar 3 17:00:46.707: As65 LCP: ACFC (0x0802) \*Mar 3  
17:00:46.715: As65 LCP: I CONFREQ [ACKrcvd] id 21 Len 25 \*Mar 3 17:00:46.715: As65 LCP: ACCM  
0x000A0000 (0x0206000A0000) \*Mar 3 17:00:46.715: As65 LCP: AuthProto CHAP (0x0305C22305) \*Mar 3  
17:00:46.719: As65 LCP: MagicNumber 0x30CB092E (0x050630CB092E) \*Mar 3 17:00:46.719: As65 LCP:  
PFC (0x0702) \*Mar 3 17:00:46.719: As65 LCP: ACFC (0x0802) \*Mar 3 17:00:46.719: As65 LCP: O  
CONFACK [ACKrcvd] id 21 Len 25 \*Mar 3 17:00:46.719: As65 LCP: ACCM 0x000A0000 (0x0206000A0000)  
\*Mar 3 17:00:46.719: As65 LCP: AuthProto CHAP (0x0305C22305) \*Mar 3 17:00:46.723: As65 LCP:  
MagicNumber 0x30CB092E (0x050630CB092E) \*Mar 3 17:00:46.723: As65 LCP: PFC (0x0702) \*Mar 3  
17:00:46.723: As65 LCP: ACFC (0x0802) \*Mar 3 17:00:46.723: As65 LCP: State is Open \*Mar 3  
17:00:46.723: As65 PPP: **Phase is AUTHENTICATING, by both** *!--- Two-way PPP CHAP authentication  
begins.* \*Mar 3 17:00:46.723: As65 CHAP: O CHALLENGE id 7 Len 32 from "maui-rtr-10" \*Mar 3  
17:00:46.847: As65 CHAP: I CHALLENGE id 7 Len 32 from "maui-rtr-11" \*Mar 3 17:00:46.851: As65  
CHAP: O RESPONSE id 7 Len 32 from "maui-rtr-10" \*Mar 3 17:00:46.967: As65 **CHAP: I SUCCESS** id 7  
Len 4 \*Mar 3 17:00:46.971: As65 CHAP: I RESPONSE id 7 Len 32 from "maui-rtr-11" \*Mar 3  
17:00:46.975: As65 **CHAP: O SUCCESS** id 7 Len 4 *!--- Incoming and Outgoing CHAP authentication are  
successful.* \*Mar 3 17:00:46.975: As65 PPP: Phase is UP \*Mar 3 17:00:46.979: As65 IPCP: O CONFREQ  
[Closed] id 8 Len 10 *!--- IP Control Protocol (IPCP) negotiation begins.* \*Mar 3 17:00:46.979:  
As65 IPCP: Address 172.17.1.1 (0x0306AC110101) \*Mar 3 17:00:46.979: As65 CDPCP: O CONFREQ  
[Closed] id 7 Len 4 \*Mar 3 17:00:47.087: As65 IPCP: I CONFREQ [REQsent] id 7 Len 10 \*Mar 3  
17:00:47.091: As65 IPCP: Address 172.22.1.1 (0x0306AC160101) \*Mar 3 17:00:47.091: As65 IPCP: O  
CONFACK [REQsent] id 7 Len 10 \*Mar 3 17:00:47.091: As65 IPCP: Address 172.22.1.1  
(0x0306AC160101) \*Mar 3 17:00:47.095: As65 CDPCP: I CONFREQ [REQsent] id 7 Len 4 \*Mar 3  
17:00:47.095: As65 CDPCP: O CONFACK [REQsent] id 7 Len 4 \*Mar 3 17:00:47.099: As65 IPCP: I  
CONFACK [ACKsent] id 8 Len 10 \*Mar 3 17:00:47.099: As65 IPCP: Address 172.17.1.1  
(0x0306AC110101) \*Mar 3 17:00:47.099: As65 IPCP: State is Open \*Mar 3 17:00:47.103: As65 DDR:  
dialer protocol up \*Mar 3 17:00:47.103: As65 IPCP: Remove route to 172.22.53.0 \*Mar 3  
17:00:47.103: As65 CDPCP: I CONFACK [ACKsent] id 7 Len 4 \*Mar 3 17:00:47.107: As65 CDPCP: State  
is Open \*Mar 3 17:00:47.107: As65 IPCP: Install route to 172.22.1.1 \*Mar 3 17:00:47.708:  
%LINEPROTO-5-UPDOWN: **Line protocol on Interface Async65, changed state to up** *!--- Async 65 (AUX  
Port) is UP.* \*Mar 3 17:01:14.572: **As65 DDR: idle timeout** *!--- Idle timeout expires. !--- The  
router will check to see if the primary link has come up.* \*Mar 3 17:01:14.572: DDR: Dialer  
Watch: watch-group = 8 \*Mar 3 17:01:14.572: DDR: **network 172.22.53.0/255.255.255.0 UP, !--- A  
route for the watched network exists (due to the active backup link).** \*Mar 3 17:01:14.572: DDR:  
**primary DOWN !--- The primary network is down.** \*Mar 3 17:02:05.191: **As65 DDR: idle timeout !---  
Idle Timeout expires. !--- The router will check to see if the primary link has come up.** \*Mar 3  
17:02:05.191: DDR: Dialer Watch: watch-group = 8 \*Mar 3 17:02:05.191: DDR: network  
172.22.53.0/255.255.255.0 UP, \*Mar 3 17:02:05.191: DDR: **primary DOWN !--- The primary network is  
still down.** \*Mar 3 17:02:50.982: %LINK-3-UPDOWN: **Interface Serial0/1, changed state to up !---  
Primary link is reestablished.** \*Mar 3 17:02:50.986: Se0/1 PPP: Treating connection as a  
dedicated line \*Mar 3 17:02:50.986: Se0/1 PPP: Phase is ESTABLISHING, Active Open ... *!---  
Primary link PPP negotiation output omitted.* ... \*Mar 3 17:02:51.039: Se0/1 IPCP: **Install route  
to 192.168.10.1** \*Mar 3 17:02:52.020: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1,  
changed state to up \*Mar 3 17:03:05.194: As65 DDR: idle timeout *!--- Next Idle Timeout expires.*



*!--- The router will check to see if the primary link has come up. \*Mar 3 17:03:05.194: DDR: Dialer Watch: watch-group = 8 \*Mar 3 17:03:05.194: DDR: network 172.22.53.0/255.255.255.0 UP, \*Mar 3 17:03:05.194: DDR: primary DOWN !--- Dialer watch considers the primary network still down. !--- Even though the primary link is "up," the OSPF table has not yet been exchanged. !--- The primary link is not considered up until the route is installed. \*Mar 3 17:03:35.195: As65 DDR: idle timeout !--- Next idle timeout (30 seconds) expires. !--- The router will check to see if the primary link has come up. \*Mar 3 17:03:35.195: DDR: Dialer Watch: watch-group = 8 \*Mar 3 17:03:35.195: DDR: network 172.22.53.0/255.255.255.0 UP, !--- A route for the watched network exists. \*Mar 3 17:03:35.195: DDR: primary UP !--- The primary network is up. !--- Dialer watch will initiate a disconnect of the backup link. \*Mar 3 17:03:35.195: As65 DDR: starting watch disable timer !--- Delays disconnecting the backup interface after the primary !--- interface recovers. This timer is 15 seconds as configured !--- with the command dialer watch-disable 15. \*Mar 3 17:03:50.196: As65 DDR: watch disable timeout !--- The 15 second disconnect delay expires. !--- The link will be immediately brought down. \*Mar 3 17:03:50.196: As65 DDR: disconnecting call !--- Call on Async 65 (AUX Port) is disconnected. \*Mar 3 17:03:50.196: TTY65: Async Int reset: Dropping DTR ... !--- Link tear-down messages omitted here. ... \*Mar 3 17:03:57.203: %LINK-3-UPDOWN: Interface Async65, changed state to down*

## [Información Relacionada](#)

- [Guía para la conexión del módem-router](#)
- [Páginas de soporte de la tecnología de marcación](#)
- [Soporte Técnico - Cisco Systems](#)