

Definiciones de motivo de inestabilidad de detección de reenvío bidireccional en routers Cisco vEdge

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Introducción

Este documento describe los diversos motivos de inestabilidad de la detección de reenvío bidireccional (BFD) en un router Cisco vEdge.

Prerequisites

Requirements

Cisco recomienda que conozca la solución Cisco SDWAN.

Componentes Utilizados

Este documento se basa en el router Cisco Cloud vEdge que ejecuta 19.2.1.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

Descripción general de la topología

Este documento no se limita a ninguna topología específica.

Direcciones IP y colores de algunos componentes importantes en este documento:

Componente	System-IP	IP VPN 0 / Color	IP VPN 0 / Color
VEDGE-1	10.13.13.13	192.168.1.4/mpls	192.168.2.4/mpls
VEDGE-2	10.15.15.15	192.168.1.8 / internet biz	192.168.2.8 / internet
vSmart	10.8.8.8	192.168.1.3 / valor predeterminado	NA
vManage	10.7.7.7	192.168.1.1 / valor predeterminado	NA

Estados de BFD

Los valores posibles de 'flap-reason' en un router Cisco vEdge son:

1. **bfd-delete** - BFD se desactiva porque el plano de control lo ha eliminado.

Se generan dos notificaciones cuando se elimina BFD. Uno para BFD down y otro cuando BFD se elimina.

2. **timeout** - No hay respuesta BFD desde el extremo remoto.

3. **remote-down** - El extremo remoto envió un paquete BFD que indica que ha pasado al estado inactivo.

4. **na** - no aplicable. Esto se establece cuando se crea la sesión BFD por primera vez y cuando se activa la sesión BFD.

Escenarios

Escenario 1. flap-reason:bfd-delete

Realice un salto de puerto en el router VEDGE-1 y reproduzca este escenario:

```
HUB-1# request port-hop color biz-internet
```

```
VEDGE-1# show log tail -f /var/log/tmplog/vdebug
local7.debug: Mar 20 09:29:21 VEDGE-1 VDAEMON[1136]: vdaemon_disable_my_tloc[1308]:
%VDAEMON_DBG_EVENTS-1: Disabling tloc ge0_1.
local7.debug: Mar 20 09:29:21 VEDGE-1 VDAEMON[1136]: vdaemon_send_tloc_info[8282]:
%VDAEMON_DBG_MISC-1: Sending TLOC: ifname:ge0_1 color:biz-internet spi:1499 smarts:1 manages:1
state:DOWN LR encap: 0 LR hold time : 7000 Pairwise-Keys Disabled key-id 0
local7.info: Mar 20 09:29:21 VEDGE-1 VDAEMON[1136]: %Viptela-VEEDGE-1-vdaemon-6-INFO-1400002:
Notification: 3/20/2020 9:29:21 control-connection-state-change severity-level:major host-
name:"VEDGE-1" system-ip:10.13.13.13 personality:vEdge peer-type:vsmart peer-system-ip:10.8.8.8
peer-vmanage-system-ip:0.0.0.0 public-ip:192.168.1.3 public-port:12946 src-color:biz-internet
remote-color:default uptime:"0:00:35:57" new-state:down
local7.info: Mar 20 09:29:21 VEDGE-1 VDAEMON[1136]: %Viptela-VEEDGE-1-vdaemon-6-INFO-1400002:
Notification: 3/20/2020 9:29:21 control-connection-state-change severity-level:major host-
name:"VEDGE-1" system-ip:10.13.13.13 personality:vEdge peer-type:vmanage peer-system-ip:10.7.7.7
peer-vmanage-system-ip:0.0.0.0 public-ip:192.168.1.1 public-port:12946 src-color:biz-internet
remote-color:mpls uptime:"0:01:56:34" new-state:down
local7.info: Mar 20 09:29:21 VEDGE-1 FTMD[1126]: %Viptela-VEEDGE-1-ftmd-6-INFO-1400002:
Notification: 3/20/2020 9:29:21 bfd-state-change severity-level:major host-name:"VEDGE-1"
```

```
system-ip:10.13.13.13 src-ip:192.168.2.4 dst-ip:192.168.1.6 proto:ipsec src-port:12406 dst-
port:12347 local-system-ip:10.13.13.13 local-color:"biz-internet" remote-system-ip:10.14.14.14
remote-color:"mpls" new-state:down deleted:false flap-reason:bfd-deleted
```

Verifique BFD y controle el tiempo de actividad de la conexión en Internet biz:

```
VEDGE-1# show control connections | t
LOCAL LOCAL
CFG V
PEER SITE DOMAIN PRIVATE PRIVATE PUBLIC PUBLIC
SYSTEM PRIVATE PRIVATE CONTROLLER
SYSTEM ORG BEHIND
INSTANCE TYPE ID ID IP PORT IP PORT IP PROTOCOL LOCAL
COLOR REMOTE COLOR IP PORT STATE UPTIME GROUP ID IP NAME PROXY
-----
0 vsmart 8 1 192.168.1.4 12366 192.168.1.3 12946 10.8.8.8 dtls
mpls default 192.168.1.3 12946 up 0:00:03:47 0 - -
No
0 vsmart 8 1 192.168.2.4 12426 192.168.1.3 12946 10.8.8.8 dtls
biz-internet default 192.168.1.3 12946 up 0:00:01:52 0 - -
No
0 vbond 0 0 192.168.1.4 12366 192.168.1.10 12346 0.0.0.0 dtls
mpls mpls 192.168.1.10 12346 up 0:00:03:47 0 - -
-
0 vbond 0 0 192.168.2.4 12426 192.168.1.10 12346 0.0.0.0 dtls
biz-internet biz-internet 192.168.1.10 12346 up 0:00:00:31 0 - -
-
0 vmanage 8 0 192.168.2.4 12426 192.168.1.1 12946 10.7.7.7 dtls
biz-internet mpls 192.168.1.1 12946 up 0:00:01:52 0 - -
No
```

```
VEDGE-1# sh bfd sess | t
SRC DST SITE
DETECT TX
SRC IP DST IP PROTO PORT PORT SYSTEM IP ID LOCAL COLOR COLOR STATE
MULTIPLIER INTERVAL UPTIME TRANSITIONS
-----
192.168.1.4 192.168.1.6 ipsec 12366 12347 10.14.14.14 14 mpls mpls
up 7 1000 0:00:03:48 0
192.168.1.4 192.168.2.6 ipsec 12366 12387 10.14.14.14 14 mpls biz-internet
up 7 1000 0:00:03:48 0
192.168.2.4 192.168.1.6 ipsec 12426 12347 10.14.14.14 14 biz-internet mpls
up 7 1000 0:00:01:55 0
192.168.2.4 192.168.2.6 ipsec 12426 12387 10.14.14.14 14 biz-internet biz-internet
up 7 1000 0:00:01:55 0
192.168.1.4 192.168.1.8 ipsec 12366 12406 10.15.15.15 15 mpls mpls
up 7 1000 0:00:03:48 0
192.168.1.4 192.168.2.8 ipsec 12366 12366 10.15.15.15 15 mpls biz-internet
up 7 1000 0:00:03:48 0
192.168.2.4 192.168.1.8 ipsec 12426 12406 10.15.15.15 15 biz-internet mpls
up 7 1000 0:00:01:55 0
192.168.2.4 192.168.2.8 ipsec 12426 12366 10.15.15.15 15 biz-internet biz-internet
up 7 1000 0:00:01:55 0
192.168.1.4 192.168.1.11 ipsec 12366 12346 10.16.16.16 16 mpls mpls
up 7 1000 0:00:03:48 0
192.168.1.4 192.168.2.11 ipsec 12366 12426 10.16.16.16 16 mpls biz-internet
up 7 1000 0:00:03:48 0
192.168.2.4 192.168.1.11 ipsec 12426 12346 10.16.16.16 16 biz-internet mpls
up 7 1000 0:00:01:55 0
192.168.2.4 192.168.2.11 ipsec 12426 12426 10.16.16.16 16 biz-internet biz-internet
up 7 1000 0:00:01:55 0
```

```

192.168.1.4 192.168.1.12 ipsec 12366 12426 10.17.17.17 17 mpls mpls
up 7 1000 0:00:03:48 0
192.168.1.4 192.168.2.12 ipsec 12366 12406 10.17.17.17 17 mpls biz-internet
up 7 1000 0:00:03:48 0
192.168.2.4 192.168.1.12 ipsec 12426 12426 10.17.17.17 17 biz-internet mpls
up 7 1000 0:00:01:55 0
192.168.2.4 192.168.2.12 ipsec 12426 12406 10.17.17.17 17 biz-internet biz-internet
up 7 1000 0:00:01:55 0
192.168.1.4 192.168.1.14 ipsec 12366 12426 10.18.18.18 18 mpls mpls
up 7 1000 0:00:03:48 0
192.168.1.4 192.168.2.14 ipsec 12366 12426 10.18.18.18 18 mpls biz-internet
up 7 1000 0:00:03:48 0
192.168.2.4 192.168.1.14 ipsec 12426 12426 10.18.18.18 18 biz-internet mpls
up 7 1000 0:00:01:55 0
192.168.2.4 192.168.2.14 ipsec 12426 12426 10.18.18.18 18 biz-internet biz-internet
up 7 1000 0:00:01:55 0
192.168.1.4 192.168.3.40 ipsec 12366 12366 10.19.19.19 19 mpls mpls
up 7 1000 0:00:03:48 0
192.168.1.4 192.168.4.40 ipsec 12366 12366 10.19.19.19 19 mpls biz-internet
up 7 1000 0:00:03:48 0
192.168.2.4 192.168.3.40 ipsec 12426 12366 10.19.19.19 19 biz-internet mpls
up 7 1000 0:00:01:55 0
192.168.2.4 192.168.4.40 ipsec 12426 12366 10.19.19.19 19 biz-internet biz-internet
up 7 1000 0:00:01:55 0

```

También puede borrar una conexión de control en VEDGE-1 para probar este escenario (que también inhabilita un TLOC):

```

local1.info: Mar 20 09:34:20 VEDGE-1 confd[897]: audit user: admin/60155 CLI 'clear control
connections'
local7.info: Mar 20 09:34:20 VEDGE-1 VDAEMON[1136]: %Viptela-VEEDGE-1-vdaemon-6-INFO-1400002:
Notification: 3/20/2020 9:34:20 control-connection-state-change severity-level:major host-
name:"VEEDGE-1" system-ip:10.13.13.13 personality:vEdge peer-type:vsmart peer-system-ip:10.8.8.8
peer-vmanage-system-ip:0.0.0.0 public-ip:192.168.1.3 public-port:12946 src-color:biz-internet
remote-color:default uptime:"0:00:00:51" new-state:down
local7.info: Mar 20 09:34:20 VEDGE-1 VDAEMON[1136]: %Viptela-VEEDGE-1-vdaemon-6-INFO-1400002:
Notification: 3/20/2020 9:34:20 control-connection-state-change severity-level:major host-
name:"VEEDGE-1" system-ip:10.13.13.13 personality:vEdge peer-type:vmanage peer-system-ip:10.7.7.7
peer-vmanage-system-ip:0.0.0.0 public-ip:192.168.1.1 public-port:12946 src-color:biz-internet
remote-color:mpls uptime:"0:00:01:09" new-state:down
local7.info: Mar 20 09:34:20 VEDGE-1 FTMD[1126]: %Viptela-VEEDGE-1-ftmd-6-INFO-1400002:
Notification: 3/20/2020 9:34:20 bfd-state-change severity-level:major host-name:"VEEDGE-1"
system-ip:10.13.13.13 src-ip:192.168.2.4 dst-ip:192.168.1.6 proto:ipsec src-port:12426 dst-
port:12347 local-system-ip:10.13.13.13 local-color:"biz-internet" remote-system-ip:10.14.14.14
remote-color:"mpls" new-state:down deleted:false flap-reason:bfd-deleted

```

Verifique el tiempo de actividad en mpls y colores biz-internet esta vez:

```

VEEDGE-1# sh bfd sess | t

```

DETECT	TX	SRC	DST	SITE					
SRC IP	DST IP	PROTO	PORT	PORT	SYSTEM IP	ID	LOCAL COLOR	COLOR	STATE
MULTIPLIER	INTERVAL	UPTIME	TRANSITIONS						
192.168.1.4	192.168.1.6	ipsec	12366	12347	10.14.14.14	14	mpls	mpls	
up	7	1000	0:00:01:37	2					
192.168.1.4	192.168.2.6	ipsec	12366	12387	10.14.14.14	14	mpls	biz-internet	
up	7	1000	0:00:01:37	2					
192.168.2.4	192.168.1.6	ipsec	12426	12347	10.14.14.14	14	biz-internet	mpls	
up	7	1000	0:00:01:55	2					
192.168.2.4	192.168.2.6	ipsec	12426	12387	10.14.14.14	14	biz-internet	biz-internet	

```

up      7      1000      0:00:01:55  2
192.168.1.4 192.168.1.8 ipsec 12366 12406 10.15.15.15 15 mpls mpls
up      7      1000      0:00:01:37  2
192.168.1.4 192.168.2.8 ipsec 12366 12366 10.15.15.15 15 mpls biz-internet
up      7      1000      0:00:01:37  2
192.168.2.4 192.168.1.8 ipsec 12426 12406 10.15.15.15 15 biz-internet mpls
up      7      1000      0:00:01:55  2
192.168.2.4 192.168.2.8 ipsec 12426 12366 10.15.15.15 15 biz-internet biz-internet
up      7      1000      0:00:01:55  2
192.168.1.4 192.168.1.11 ipsec 12366 12346 10.16.16.16 16 mpls mpls
up      7      1000      0:00:01:37  2
192.168.1.4 192.168.2.11 ipsec 12366 12426 10.16.16.16 16 mpls biz-internet
up      7      1000      0:00:01:37  2
192.168.2.4 192.168.1.11 ipsec 12426 12346 10.16.16.16 16 biz-internet mpls
up      7      1000      0:00:01:55  2
192.168.2.4 192.168.2.11 ipsec 12426 12426 10.16.16.16 16 biz-internet biz-internet
up      7      1000      0:00:01:55  2
192.168.1.4 192.168.1.12 ipsec 12366 12426 10.17.17.17 17 mpls mpls
up      7      1000      0:00:01:37  2
192.168.1.4 192.168.2.12 ipsec 12366 12406 10.17.17.17 17 mpls biz-internet
up      7      1000      0:00:01:37  2
192.168.2.4 192.168.1.12 ipsec 12426 12426 10.17.17.17 17 biz-internet mpls
up      7      1000      0:00:01:55  2
192.168.2.4 192.168.2.12 ipsec 12426 12406 10.17.17.17 17 biz-internet biz-internet
up      7      1000      0:00:01:55  2
192.168.1.4 192.168.1.14 ipsec 12366 12426 10.18.18.18 18 mpls mpls
up      7      1000      0:00:01:37  2
192.168.1.4 192.168.2.14 ipsec 12366 12426 10.18.18.18 18 mpls biz-internet
up      7      1000      0:00:01:37  2
192.168.2.4 192.168.1.14 ipsec 12426 12426 10.18.18.18 18 biz-internet mpls
up      7      1000      0:00:01:55  2
192.168.2.4 192.168.2.14 ipsec 12426 12426 10.18.18.18 18 biz-internet biz-internet
up      7      1000      0:00:01:55  2
192.168.1.4 192.168.3.40 ipsec 12366 12366 10.19.19.19 19 mpls mpls
up      7      1000      0:00:01:37  2
192.168.1.4 192.168.4.40 ipsec 12366 12366 10.19.19.19 19 mpls biz-internet
up      7      1000      0:00:01:37  2
192.168.2.4 192.168.3.40 ipsec 12426 12366 10.19.19.19 19 biz-internet mpls
up      7      1000      0:00:01:55  2
192.168.2.4 192.168.4.40 ipsec 12426 12366 10.19.19.19 19 biz-internet biz-internet
up      7      1000      0:00:01:54  3

```

```

VEDGE-1# show control connections | t
LOCAL

```

```

LOCAL

```

```

          CFG      V
        PEER      SITE DOMAIN PRIVATE PRIVATE PUBLIC PUBLIC
SYSTEM          PRIVATE PRIVATE          CONTROLLER
SYSTEM ORG BEHIND
INSTANCE TYPE ID ID IP PORT IP PORT IP PROTOCOL LOCAL
COLOR REMOTE COLOR IP PORT STATE UPTIME GROUP ID IP NAME PROXY
-----
0      vsmart 8 1 192.168.1.4 12366 192.168.1.3 12946 10.8.8.8
dtls mpls default 192.168.1.3 12946 up 0:00:01:41 0 -
- No
0      vsmart 8 1 192.168.2.4 12426 192.168.1.3 12946 10.8.8.8
dtls biz-internet default 192.168.1.3 12946 up 0:00:01:59 0 -
- No
0      vbond 0 0 192.168.1.4 12366 192.168.1.10 12346 0.0.0.0
dtls mpls mpls 192.168.1.10 12346 up 0:00:01:42 0 -
- -
0      vbond 0 0 192.168.2.4 12426 192.168.1.10 12346 0.0.0.0
dtls biz-internet biz-internet 192.168.1.10 12346 up 0:00:00:01 0 -

```

```

-      -
0      vmanage 8      0      192.168.2.4 12426      192.168.1.1 12946      10.7.7.7
dtls   biz-internet mpls      192.168.1.1 12946      up      0:00:01:59 0      -
-      No

```

Situación hipotética 2. flap-reason:timeout

Puede reproducir este escenario desactivando un TLOC (biz-internet en este caso) en VEDGE-1 cerrando una interfaz en la parte inferior.

Estado BFD en VEDGE-2 antes de inhabilitar un TLOC en el lado VEDGE-1:

```

VEDGE-2# show bfd sessions remote-color mpls system-ip 10.13.13.13 | t
          SRC      DST              SITE
DETECT    TX
SRC IP    DST IP    PROTO  PORT    PORT  SYSTEM IP  ID  LOCAL COLOR  COLOR  STATE
MULTIPLIER INTERVAL  UPTIME      TRANSITIONS
-----
192.168.1.8 192.168.1.4 ipsec  12406  12366  10.13.13.13  13  mpls          mpls  up
7           1000      0:00:03:15  2
192.168.2.8 192.168.1.4 ipsec  12366  12366  10.13.13.13  13  biz-internet  mpls  up
7           1000      0:00:03:15  2

```

Inicia sesión en VEDGE-2 después de reproducir el problema:

```

local7.info: Mar 20 10:00:04 VEDGE-2 FTMD[1119]: %Viptela-VEEDGE-2-ftmd-6-INFO-1400002:
Notification: 3/20/2020 10:0:4 bfd-state-change severity-level:major host-name:"VEDGE-2" system-
ip:10.15.15.15 src-ip:192.168.1.8 dst-ip:192.168.2.14 proto:ipsec src-port:12406 dst-port:12426
local-system-ip:10.15.15.15 local-color:"mpls" remote-system-ip:10.18.18.18 remote-color:"biz-
internet" new-state:down deleted:false flap-reason:timeout
local7.info: Mar 20 10:00:05 VEDGE-2 FTMD[1119]: %Viptela-VEEDGE-2-ftmd-6-INFO-1400002:
Notification: 3/20/2020 10:0:4 bfd-state-change severity-level:major host-name:"VEDGE-2" system-
ip:10.15.15.15 src-ip:192.168.2.8 dst-ip:192.168.4.40 proto:ipsec src-port:12386 dst-port:12366
local-system-ip:10.15.15.15 local-color:"biz-internet" remote-system-ip:10.19.19.19 remote-
color:"biz-internet" new-state:down deleted:false flap-reason:timeout
VEDGE-2# show bfd sessions remote-color mpls system-ip 10.13.13.13 | t
          SRC      DST              SITE
DETECT    TX
SRC IP    DST IP    PROTO  PORT    PORT  SYSTEM IP  ID  LOCAL COLOR  COLOR  STATE
MULTIPLIER INTERVAL  UPTIME      TRANSITIONS
-----
192.168.1.8 192.168.1.4 ipsec  12406  12366  10.13.13.13  13  mpls          mpls  up
7           1000      0:00:21:56  3
192.168.2.8 192.168.1.4 ipsec  12386  12366  10.13.13.13  13  biz-internet  mpls  down
7           1000      NA          1

```

Situación hipotética 3. motivo de inestabilidad:na

Puede reproducir este escenario realizando un no shut en la interfaz subyacente desde el escenario anterior.

```

local7.info: Mar 20 10:01:20 VEDGE-2 FTMD[1119]: %Viptela-VEEDGE-2-ftmd-6-INFO-1400002:
Notification: 3/20/2020 10:1:18 bfd-state-change severity-level:major host-name:"VEDGE-2"
system-ip:10.15.15.15 src-ip:192.168.2.8 dst-ip:192.168.1.11 proto:ipsec src-port:12386 dst-
port:12346 local-system-ip:10.15.15.15 local-color:"biz-internet" remote-system-ip:10.16.16.16
remote-color:"mpls" new-state:up deleted:false flap-reason:na
local7.info: Mar 20 10:01:20 VEDGE-2 FTMD[1119]: %Viptela-VEEDGE-2-ftmd-6-INFO-1400002:

```

```
Notification: 3/20/2020 10:1:18 bfd-state-change severity-level:major host-name:"VEDGE-2"
system-ip:10.15.15.15 src-ip:192.168.1.8 dst-ip:192.168.2.11 proto:ipsec src-port:12406 dst-
port:12426 local-system-ip:10.15.15.15 local-color:"mpls" remote-system-ip:10.16.16.16 remote-
color:"biz-internet" new-state:up deleted:false flap-reason:na
```

```
VEDGE-2# show bfd sessions remote-color mpls system-ip 10.13.13.13 | t
```

DETECT	TX	SRC	DST	SITE							
SRC IP	DST IP	PROTO	PORT	PORT	SYSTEM IP	ID	LOCAL COLOR	COLOR	STATE		
MULTIPLIER	INTERVAL	UPTIME	TRANSITIONS								
192.168.1.8	192.168.1.4	ipsec	12406	12366	10.13.13.13	13	mpls	mpls	up		
7	1000	0:00:22:32	3								
192.168.2.8	192.168.1.4	ipsec	12386	12366	10.13.13.13	13	biz-internet	mpls	up		
7	1000	0:00:00:04	1								

Situación hipotética 4. flap-reason:remote-down

Puede reproducir este escenario con el comando `no control-connections` en VEDGE-1 en un color específico (mpls en este caso).

Registros en VEDGE-1:

```
vpn 0
interface ge0/0
ip address 192.168.1.4/24
tunnel-interface
encapsulation ipsec
color mpls
no control-connections
```

```
VEDGE-1# show control connections | t
```

LOCAL											
LOCAL											
CFG V											
SYSTEM	PEER	SITE	DOMAIN	PRIVATE	PRIVATE	PUBLIC	PUBLIC	CONTROLLER			
SYSTEM	ORG	BEHIND	ID	IP	PORT	IP	PORT	IP	IP	PROTOCOL	LOCAL
INSTANCE	TYPE	ID	ID	IP	PORT	IP	PORT	IP	IP	NAME	PROXY
COLOR	REMOTE	COLOR	IP	PORT	STATE	UPTIME	GROUP	ID	IP		
0	vsmart	8	1	192.168.2.4	12426	192.168.1.3	12946	10.8.8.8	dtls		
biz-internet	default			192.168.1.3	12946	up	0:00:17:54	0	-	-	
No											
0	vbond	0	0	192.168.2.4	12426	192.168.1.10	12346	0.0.0.0	dtls		
biz-internet	biz-internet			192.168.1.10	12346	up	0:00:02:37	0	-	-	
-											
0	vmanage	8	0	192.168.2.4	12426	192.168.1.1	12946	10.7.7.7	dtls		
biz-internet	mpls			192.168.1.1	12946	up	0:00:22:44	0	-	-	
No											

Registros en VEDGE-2:

```
local7.info: Mar 20 11:36:40 VEDGE-2 FTMD[1119]: %Viptela-VEDGE-2-ftmd-6-INFO-1400002:
Notification: 3/20/2020 11:36:40 bfd-state-change severity-level:major host-name:"VEDGE-2"
system-ip:10.15.15.15 src-ip:192.168.1.8 dst-ip:192.168.1.4 proto:ipsec src-port:12406 dst-
port:12406 local-system-ip:10.15.15.15 local-color:"mpls" remote-system-ip:10.13.13.13 remote-
color:"mpls" new-state:down deleted:false flap-reason:remote-down
```

```

local7.info: Mar 20 11:36:40 VEDGE-2 FTMD[1119]: %Viptela-VEEDGE-2-ftmd-6-INFO-1400002:
Notification: 3/20/2020 11:36:40 bfd-state-change severity-level:major host-name:"VEDGE-2"
system-ip:10.15.15.15 src-ip:192.168.2.8 dst-ip:192.168.1.4 proto:ipsec src-port:12386 dst-
port:12406 local-system-ip:10.15.15.15 local-color:"biz-internet" remote-system-ip:10.13.13.13
remote-color:"mpls" new-state:down deleted:false flap-reason:remote-down
local7.info: Mar 20 11:36:41 VEDGE-2 FTMD[1119]: %Viptela-VEEDGE-2-ftmd-6-INFO-1400002:
Notification: 3/20/2020 11:36:41 bfd-state-change severity-level:major host-name:"VEDGE-2"
system-ip:10.15.15.15 src-ip:192.168.1.8 dst-ip:192.168.1.4 proto:ipsec src-port:12406 dst-
port:12406 local-system-ip:10.15.15.15 local-color:"mpls" remote-system-ip:10.13.13.13 remote-
color:"mpls" new-state:up deleted:false flap-reason:na
local7.info: Mar 20 11:36:41 VEDGE-2 FTMD[1119]: %Viptela-VEEDGE-2-ftmd-6-INFO-1400002:
Notification: 3/20/2020 11:36:41 bfd-state-change severity-level:major host-name:"VEDGE-2"
system-ip:10.15.15.15 src-ip:192.168.2.8 dst-ip:192.168.1.4 proto:ipsec src-port:12386 dst-
port:12406 local-system-ip:10.15.15.15 local-color:"biz-internet" remote-system-ip:10.13.13.13
remote-color:"mpls" new-state:up deleted:false flap-reason:na
VEDGE-2# show bfd sessions remote-color mpls system-ip 10.13.13.13 | t

```

DETECT	TX	SRC	DST	SITE					
SRC IP	DST IP	PROTO	PORT	PORT	SYSTEM IP	ID	LOCAL COLOR	COLOR	STATE
MULTIPLIER	INTERVAL	UPTIME	TRANSITIONS						
192.168.1.8	192.168.1.4	ipsec	12406	12406	10.13.13.13	13	mpls	mpls	up
7	1000	0:00:05:27	16						
192.168.2.8	192.168.1.4	ipsec	12386	12406	10.13.13.13	13	biz-internet	mpls	up
7	1000	0:00:05:27	9						

Información Relacionada

- [Resolución de Problemas de Detección de Reenvío Bidireccional y Conexiones del Plano de Datos](#)
- [Soporte Técnico y Documentación - Cisco Systems](#)