

Definizioni dei motivi di inversione del rilevamento dell'inoltro bidirezionale sui router Cisco vEdge

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Introduzione

Questo documento descrive i vari motivi dell'instabilità di BFD (Bidirectional Forwarding Detection) su un router Cisco vEdge.

Prerequisiti

Requisiti

Cisco raccomanda la conoscenza della soluzione Cisco SDWAN.

Componenti usati

Questo documento è basato sul router Cisco cloud vEdge con versione 19.2.1.

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

Panoramica della topologia

Il documento non è limitato a nessuna topologia specifica.

Indirizzi IP e colori di alcuni componenti importanti in questo documento:

Componente	System-IP	IP VPN 0 / Colore	IP VPN 0 / Colore
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 / biz-internet	192.168.2.8 / biz-inte
vSmart	10.8.8.8	192.168.1.3 / impostazione predefinita	N/D
vManage	10.7.7.7	192.168.1.1 / impostazione predefinita	N/D

Stati BFD

I valori possibili di 'flap-reason' su un router Cisco vEdge sono:

1. **bfd-Deleted** - Il BFD diminuisce perché è stato eliminato dal piano di controllo.

Quando si elimina un DCF vengono generate due notifiche. Uno per BFD down e uno quando BFD viene eliminato.

2. **timeout** - Nessuna risposta BFD dall'estremità remota.

3. **remote-down** - L'estremità remota ha inviato un pacchetto BFD per segnalare che è passata allo stato down.

4. **na** - non applicabile. Questa opzione viene impostata quando la sessione BFD viene creata per la prima volta e quando viene visualizzata la sessione BFD.

Scenari

Scenario 1. motivo dell'instabilità: bfd-Deleted

Eseguire un port-hop sul router VEDGE-1 e riprodurre questo scenario:

```
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-VEDGE-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-VEDGE-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-VEDGE-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

Controllare BFD e controllare il tempo di attività della connessione su biz-internet:

```
VEDGE-1# show control connections | t
                LOCAL      LOCAL
   CFG          V
   PEER        SITE DOMAIN PRIVATE PRIVATE PUBLIC PUBLIC
SYSTEM
SYSTEM ORG     BEHIND
INSTANCE TYPE  ID   ID   IP      PORT  IP      PORT  IP
COLOR    REMOTE COLOR IP   PORT  STATE UPTIME  GROUP ID  IP
-----
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

```

È inoltre possibile cancellare una connessione di controllo in VEDGE-1 per verificare questo scenario (che disabilita anche una connessione 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

```

Verificare i tempi di attività su mpls e biz-internet color questa volta:

```

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

```

Scenario 2. flap-reason:timeout

È possibile riprodurre questo scenario disabilitando un TLOC (in questo caso biz-internet) su VEDGE-1 chiudendo un'interfaccia nella base.

Stato BFD su VEDGE-2 prima di disabilitare un TLOC sul lato VEDGE-1:

```

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	0:00:03:15	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							

Accede a VEDGE-2 dopo aver riprodotto il 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

```

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	0:00:21:56	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							

Scenario 3. motivo dell'instabilità:na

È possibile riprodurre questo scenario eseguendo un'operazione di non chiusura sull'interfaccia sottostante dello scenario precedente.

```

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								

Scenario 4. motivo dell'instabilità:disattivazione remota

È possibile riprodurre questo scenario con il comando **no control-connections** su VEDGE-1 su un colore specifico (in questo caso mpls).

Log su 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										
LOCAL	PEER	SITE	CFG	V	PRIVATE		PUBLIC		PUBLIC		CONTROLLER
SYSTEM	ORG	BEHIND	DOMAIN	PRIVATE	PRIVATE	PUBLIC	PUBLIC	PUBLIC	PRIVATE	PRIVATE	
INSTANCE	TYPE	ID	ID	IP	PORT	IP	PORT	IP	IP	IP	PROTOCOL
COLOR	REMOTE	COLOR	IP	PORT	STATE	UPTIME	GROUP	ID	IP	IP	NAME
LOCAL	PROXY										
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											

Log su 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-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:192.168.2.8 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-VEDGE-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-VEDGE-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 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								

Informazioni correlate

- [Risoluzione dei problemi di rilevamento inoltrò bidirezionale e connessioni del piano dati](#)
- [Documentazione e supporto tecnico – Cisco Systems](#)