

Definições de razão da oscilação da detecção de encaminhamento bidirecional em roteadores Cisco vEdge

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Introduction

Este documento descreve os vários motivos da oscilação Bidirectional Forwarding Detection (BFD) em um roteador Cisco vEdge.

Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento da solução Cisco SDWAN.

Componentes Utilizados

Este documento é baseado no roteador Cisco Cloud vEdge que executa 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. Se a rede estiver ativa, certifique-se de que você entenda o impacto potencial de qualquer comando.

Visão geral da topologia

Este documento não está restrito a nenhuma topologia específica.

Endereços IP e cores de alguns componentes importantes neste documento:

Componente	IP do sistema	IP/cor da VPN 0	IP/cor da VPN 0
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 / padrão	NA
vManage	10.7.7.7	192.168.1.1 / padrão	NA

Estados BFD

Os valores possíveis de 'razão da oscilação' em um roteador Cisco vEdge são:

1. **bfd-deleted** - O BFD é desativado porque o plano de controle o excluiu.

Você gera duas notificações quando o BFD é excluído. Um para BFD inativo e um quando o BFD é excluído.

2. **timeout** - Nenhuma resposta BFD da extremidade remota.

3. **remote-down** - a extremidade remota enviou um pacote BFD que indica que ele foi para o estado inativo.4.

4. **n** - não aplicável. Isso é definido quando a sessão BFD é criada pela primeira vez e quando a sessão BFD é ativada.

Cenários

Cenário 1. flap-reason:bfd-deleted

Execute um salto de porta no roteador VEDGE-1 e reproduza este cenário:

```
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

Verifique o BFD e o tempo de atividade da conexão de controle na Internet de empresa:

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

CFG	V										
SYSTEM	PEER	SITE	DOMAIN	PRIVATE	PRIVATE	PUBLIC	PUBLIC				CONTROLLER
SYSTEM	ORG	BEHIND									
INSTANCE	TYPE	ID	ID	IP	PORT	IP	PORT	IP	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
```

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

```

Você também pode limpar uma conexão de controle no VEDGE-1 para testar este cenário (que também desabilita um 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, desta vez, o tempo de atividade em mpls e cores da Internet de negócios:

```

VEEDGE-1# sh bfd sess | t

```

DETECT	TX	SRC	DST	SITE	LOCAL	COLOR	COLOR	STATE
SRC IP	DST IP	PROTO	PORT	PORT	SYSTEM IP	ID	LOCAL	COLOR
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
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
```

Cenário 2. flap-reason:timeout

Você pode reproduzir esse cenário desabilitando uma TLOC (biz-internet, neste caso) no VEDGE-1, desligando uma interface na base.

Estado BFD em VEDGE-2 antes de desativar um TLOC no 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
```

Faça login no VEDGE-2 após reproduzir o 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
```

Cenário 3. razão da aba:na

Você pode reproduzir esse cenário fazendo uma interface de subcamada sem fechamento do cenário 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	SYSTEM IP	ID	LOCAL COLOR	COLOR	STATE
MULTIPLIER	INTERVAL	PORT	PORT	TRANSITIONS	UPTIME				
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						

Cenário 4. razão da oscilação:remote-down

Você pode reproduzir esse cenário com o comando `no control-connections` em VEDGE-1 em uma cor específica (neste caso, mpls).

Logs no 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	PEER	SITE	CFG	V	PRIVATE	PUBLIC	PUBLIC	PRIVATE	PUBLIC	PRIVATE	CONTROLLER	
SYSTEM	ORG	BEHIND	DOMAIN	PRIVATE	PRIVATE	PUBLIC	PUBLIC	PRIVATE	PUBLIC	PRIVATE	LOCAL	
INSTANCE	TYPE	ID	ID	IP	PORT	IP	PORT	IP	PORT	IP	PROTOCOL	LOCAL
COLOR	REMOTE	COLOR	IP	PORT	STATE	UPTIME	GROUP	ID	IP	IP	NAME	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												

Logs no 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-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						

Informações Relacionadas

- [Solucionar problemas de detecção de encaminhamento bidirecional e conexões de plano de dados](#)
- [Suporte Técnico e Documentação - Cisco Systems](#)