

Definities van bindirectionele doorsturen van detectiescheiding voor schoot-reden op Cisco vEdge-routers

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Inleiding

Dit document beschrijft de verschillende BFD-flap-redenen (Bidirectional Forwarding Detection) op een Cisco vEdge-router.

Voorwaarden

Vereisten

Cisco raadt u aan kennis te hebben van Cisco SDWAN-oplossing.

Gebruikte componenten

Dit document is gebaseerd op Cisco Cloud vEdge-router die 19.2.1 draait.

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk levend is, zorg er dan voor dat u de mogelijke impact van om het even welke opdracht begrijpt.

Overzicht van topologie

Dit document is niet beperkt tot enige specifieke topologie.

IP-adressen en kleuren van bepaalde belangrijke onderdelen in dit document:

Samengesteld	System-IP	VPN 0 IP/kleur	VPN 0 IP/kleur
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 / standaard	NA
vManager	10.7.7.7	192.168.1.1 / standaard	NA

BFD-staten

De mogelijke waarden van 'flap-ratio' op een Cisco vEdge-router zijn:

1. **B-deleted** - BFD daalt omdat het bedieningspaneel het heeft verwijderd.

U hebt twee meldingen op wanneer BFD is verwijderd. Eén voor BFD omlaag en één wanneer BFD wordt verwijderd.

2. **Time-out** - geen BFD-respons van het afstandsgedeelte.

3. **Remote-end** - Remote-kant heeft een BFD-pakket verzonden dat aangeeft dat het naar een lagere toestand is gegaan.

4. **na** - niet van toepassing. Dit wordt ingesteld wanneer de BFD-sessie voor het eerst wordt gemaakt en wanneer de BFD-sessie wordt gestart.

Scenarios

Scenario 1. zonder flap-rede:bf-deleted

Voer een port-hop-over-VEDGE-1 router uit en reproduceren dit 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

Controleer BFD en controleer de uptime van de verbinding op BZ-internet:

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

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

```
VEDGE-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	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

```

U kunt ook een bedieningsverbinding op VEDGE-1 wissen om dit scenario te testen (dat ook een TLOC uitschakelt):

```

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

```

Bekijk nu de uptime op mpls en biz-internet kleuren:

```

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
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-argument:timeout

U kunt dit scenario reproduceren door een TLOC (in dit geval biz-internet) op VEDGE-1 uit te schakelen door een interface in de onderlay te sluiten.

BFD-status op VEDGE-2 voordat u een TLOC aan VEDGE-1 zijde uitschakelt:

```
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
```

Logt in op VEDGE-2 nadat u het probleem hebt gereproduceerd:

```
local7.info: Mar 20 10:00:04 VEDGE-2 FTMD[1119]: %Viptela-VEDGE-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-VEDGE-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
```

Scenario 3. flap-rede:na

U kunt dit scenario reproduceren door niet op de onderste interface van het vorige scenario te sluiten.

```
local7.info: Mar 20 10:01:20 VEDGE-2 FTMD[1119]: %Viptela-VEDGE-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-VEDGE-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. flap-rede:afstandsbediening

U kunt dit scenario met de opdracht **geen controle-verbindingen op VEDGE-1 op een specifieke kleur** (in dit geval mpls) reproduceren.

Logs op 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			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	192.168.2.4	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 op 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:"VEEDGE-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:"VEEDGE-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						

Gerelateerde informatie

- [Problemen oplossen met bidirectioneel doorsturen van detectie en datacenter-verbindingen](#)
- [Technische ondersteuning en documentatie – Cisco Systems](#)