

Bidirectional Forwarding Detection Flap-Reason Definitions on Cisco vEdge Routers

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Introduction

This document describes the various Bidirectional Forwarding Detection (BFD) flap-reasons on a Cisco vEdge router.

Prerequisites

Requirements

Cisco recommends that you have knowledge of Cisco SDWAN solution.

Components Used

This document is based on Cisco cloud vEdge router running 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. If your network is live, ensure that you understand the potential impact of any command.

Topology Overview

This document is not restricted to any specific topology.

IP addresses and colors of some important components in this document:

Component	System-IP	VPN 0 IP / Color	VPN 0 IP / 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 / biz-internet	192.168.2.8 / biz-inte
vSmart	10.8.8.8	192.168.1.3 / default	NA
vManage	10.7.7.7	192.168.1.1 / default	NA

BFD States

The possible values of 'flap-reason' on a Cisco vEdge router are:

1. **bfd-deleted** - BFD goes down because the control plane has deleted it.

You raise two notifications when BFD is deleted. One for BFD down and one when BFD gets deleted.

2. **timeout** - No BFD response from the remote end.

3. **remote-down** - Remote end sent a BFD packet that indicates that it has gone to down-state.

4. **na** - not applicable. This is set when the BFD session is created for the first time and when the BFD session comes up.

Scenarios

Scenario 1. flap-reason:bfd-deleted

Perform a port-hop on VEDGE-1 router and reproduce this 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
```

Check BFD and control connection uptime on biz-internet:

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

CFG	V											
SYSTEM	PEER	SITE	DOMAIN	PRIVATE	PRIVATE	PUBLIC	PUBLIC					CONTROLLER
SYSTEM	ORG	BEHIND										
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	192.168.1.4	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

```

You can also clear a control connection on VEDGE-1 in order to test this scenario (which also disables a 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:"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:"0:00:00:51" 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:"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:"0:00:01:09" 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:"VEDGE-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

```

Check the uptime on mpls and biz-internet colors this time:

```

VEDGE-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

You can reproduce this scenario by disabling a TLOC (biz-internet in this case) on VEDGE-1 by shutting down an interface in the underlay.

BFD state on VEDGE-2 before you disable a TLOC on VEDGE-1 side:

```
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
```

Logs on VEDGE-2 after you reproduce the issue:

```
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-reason:na

You can reproduce this scenario by doing a no shut on the underlay interface from the previous scenario.

```
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
          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      0:00:22:32 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-reason:remote-down

You can reproduce this scenario with the command **no control-connections** on VEDGE-1 on a specific color (mpls in this case).

Logs on 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
          PEER     SITE  DOMAIN  PRIVATE  PRIVATE  PUBLIC    PUBLIC
SYSTEM          PRIVATE  PRIVATE          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 on 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						

Related Information

- [Troubleshoot Bidirectional Forwarding Detection and Data Plane Connections Issues](#)
- [Technical Support & Documentation - Cisco Systems](#)