

Cisco IOS S, ^ S IOS XE

1/2 f f ^ a, | a, s a, c a R a Cae-1 a 'a f a, C a f a



a, c a f % a f a, m a, q a f a f 1/4 ID : cisco-sa-

[CVE-2018-](#)

20180328-bfd

[0155](#)

a ^ a ... - e - c a e - y : 2018-03-28 16:00

a e e q a e ' a e - o a e - y : 2022-12-15 22:19

a f a f 1/4 a, a f s a f 3 1.4 : Final

CVSS a, 1 a, 3 a, c : [8.6](#)

a > z e z c - : No workarounds available

Cisco a f a, o ID : [CSCvc40729](#)

a e - y a e - e a z a « a, ^ a, c a f ... a ± a - a e e e c ± e a z a « a, ^ a, c a z y a e - f a R e z a ... - a 1/4 a

a e i, e i

Cisco Catalyst 4500 a, a f a f 1/4 a, o a, 1 a, m a f f a f a S, ^ a S Cisco Catalyst 4500-

X a, a f a f 1/4 a, o a, 1 a, m a f f a f a R a Cae-1 a 'a f a, C a f a f 1/4 a f t a, f a f a, o a e o e a t o (BFD) a, a f a f 1/4 a f % a R

a a R e, t a 1/4 ± a e S a - a e BFD a f a, ± a f f a f a R BFD

a f a f f a f e a f 1/4 a C e a, a R C e a ... a a a ' a ^ a R a, a f C a f 1/4 a t | c t a C e a, a a a a t a S a, a, a a

BFD

a f j a f f a, » a f 1/4 a, a, e e a z j a T M a, a a a a « a, ^ a, S a e a a a a R e, t a 1/4 ± a e S a, a, a e f a ^ C y a T M a, a

a, a, 1 a, 3 a - a a R e, t a 1/4 ± a e S a « a 3/4 a t | a T M a, a, 1/2 a f a f a, | a, s a, c a, c a f f a f - a f t a f 1/4 a f a, a f a f a f 1/4

a a R a, c a f % a f a, m a, q a f a a - a e a e - j a R a f a f a, - a, ^ a, S c c o e a a S a a a 3/4 a T M a e,

<https://tools.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20180328-bfd>

a a R a, c a f % a f a, m a, q a f a a - a e 2018 a 1 ' 3 a e e ^ 28 a e - y a a ... - e - a a, C e a Y Cisco

IOS a S, ^ a S IOS

X E a, 1/2 a f a f a, | a, s a, c a R a, » a, a f a f a f t a, f a, c a f % a f a, m a, q a f a f a f a f % a f « a R a, e f a a S a T M a

[Event Response: March 2018 Semiannual Cisco IOS and IOS XE Software Security Advisory Bundled](#)

[Publication](#) a e a, a, c ... s a - a | a a a a a a, a e,

e c 2 a 1/2 " e f 1/2 a "

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æ©ÿèf½ã€œæœ%ãš¹â€-ã•ã,œã€è,,†â¼±æ€šãœã~œ"ã™ã, Cisco IOS

ã,½ãf•ãf^ã,|ã,šã,çãfãfãf¼ã,¹ã¾ã€ÿã- Cisco IOS XE ã,½ãf•ãf^ã,|ã,šã,ç

ãfãfãf¼ã,¹ã,â®ÿè;œã™ã,«ã»¥ã,ã®ã,ã,¹ã,³è£½ã"ã€«ã½±éÿã,ã,Žã^ã¾ã™ã€,

- Catalyst 4500 Supervisor Engine 6-E(K5)¹
- Catalyst 4500 Supervisor Engine 6L-E(K5)¹
- Catalyst 4500 Supervisor Engine 7-E(K10)²
- Catalyst 4500 Supervisor Engine 7L-E(K10)²
- Catalyst 4500E Supervisor Engine 8-E(K10)³
- Catalyst 4500E Supervisor Engine 8L-E(K10)⁴
- Catalyst 4500E Supervisor Engine 9-E(K10)⁵
- Catalyst 4500-Xã.ãfãf¼ã,°ã,¹ã,ããfãf(K10)²
- Catalyst 4900Mã,¹ã,ããfãf(K5)¹
- Catalyst 4948E[-F]ã,ããf¼ã,ããfãf^ã,¹ã,ããfãf(K5)¹

1. Cisco

IOSã,½ãf•ãf^ã,|ã,šã,çãfãfãf¼ã,¹5.1(1)SGã«ãšã'ã,œBFDæ©ÿèf½ã€ã,μãfãf¼ãf^

2. Cisco IOS

XEã,½ãf•ãf^ã,|ã,šã,çãfãfãf¼ã,¹3.5.0Eã«ãšã'ã,œBFDæ©ÿèf½ã€ã,μãfãf¼ãf^

3. Cisco IOS

XEã,½ãf•ãf^ã,|ã,šã,çãfãfãf¼ã,¹3.6.0Eã«ãšã'ã,œBFDæ©ÿèf½ã€ã,μãfãf¼ãf^

4. Cisco IOS

XEã,½ãf•ãf^ã,|ã,šã,çãfãfãf¼ã,¹3.8.1Eã«ãšã'ã,œBFDæ©ÿèf½ã€ã,μãfãf¼ãf^

5. Cisco IOS

XEã,½ãf•ãf^ã,|ã,šã,çãfãfãf¼ã,¹3.10.0Eã«ãšã'ã,œBFDæ©ÿèf½ã€ã,μãfãf¼ãf^

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IOS ã,½ãf•ãf^ã,|ã,šã,çãšã,^ã³ Cisco IOS XE

ã,½ãf•ãf^ã,|ã,šã,çãšã-ã€ã,½ãf•ãf^ã,|ã,šã,çãœ IP Base¼^ipbase¼%ãf'ãffã,±ãf¼ã,,

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æ©ÿèf½ã€- LAN Base¼^lanbase¼%ãf'ãffã,±ãf¼ã,,

ãf©ã,ã,»ãf³ã,¹ãšã-ã,μãfãf¼ãf^ã•ã,œã¾ã»ã,"ã€,"è³ç'°ã«ããã,,ã|ã-ã€LAN

[Baseã€IP Baseã€ãšã,^ã³ã,"ãf³ã,ãf¼ãf-ãf©ã,ã,°ã,μãfãf¼ãf^ã,](#)

[ã,ããfãf¼ã,ã®ã,μãfãf¼ãf^ã,"ã"çç°èãããããã•ã,,ã€,](#)

è,,†â¼±æ€šãœã~œ"ã™ã, Cisco IOS ã,½ãf•ãf^ã,|ã,šã,çãšã,^ã³ IOS XE

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BFD

BFD

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show running-config | include feature

bfd,³ãfžãf³ãf%åã,'äl½;ç”ã—ã¼ã™ã€,ä)¥ä,ã«ã€**show running-config | include**

feature bfd,³ãfžãf³ãf%åã,'ã€BFDæ©ÿèf½ã€Æç,,jåŠ¹ã«ãªã£ã|ã,,ã,<Cisco

Catalystã,¹ã,ªãffãfã€ãŠå®ÿè;Eã™ã,ããã€æ¬ã®ã,^ãtã«ãªã,Šã¼ã™ã€,

<#root>

switch#

```
show running-config | include feature bfd
```

```
platform module all feature bfd disable
platform module feature bfd disable
platform feature bfd disable
```

```
feature bfd disable
```

show running-config | include feature

bfd,³ãfžãf³ãf%åã¯ã€BFDæ©ÿèf½ã€Ææœ%åŠ¹ãŠã,ã,ã“ã”ã,çª°ã—ã¼ã™ã€,

æœ%åŠ¹ã«ãªã£ã|ã,,ã,<ãf'ãffã,±ãf¼ã,

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ãf©ã,ªã,»ãf³ã,¹ãÆæœ%åŠ¹ã€ãªã,CEã|ã,,ã,ã<ã«ãªã€ãªã,,ã|ã¯ã€ç®;ççtè€...ã

CLI ãŠ **show license feature**

ã,³ãfžãf³ãf%åã,'äl½;ç”ã—ã|çç°èªãŠã¼ã™ã€,ä,<ã®ã¼ã¯ã€IP

Basei¼^ipbasei¼%åãf'ãffã,±ãf¼ã,ãf©ã,ªã,»ãf³ã,¹ãÆæœ%åŠ¹ã€ãªã,CEã|ã,,ã,<

Cisco Catalystã,¹ã,ªãffãfã€ãŠshow license feature

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<#root>

C4500#

```
show license feature
```

Feature name	Enforcement	Evaluation	Clear Allowed	Enabled	Right...
--------------	-------------	------------	---------------	---------	----------

entservices	true	true	true	false	true
ipbase					
	true	false	true		
true					
	false				
lanbase	false	false	true	false	false
internal_service	true	false	true	false	false

`show license feature`

```

Image:
  Base(lanbase)
  Catalyst
  show version | include image

```

`image`

Base(lanbase)

Catalyst

`show version | include image`

`image`

Base(lanbase)

Catalyst

<#root>

C4948E#

`show version | include image`

<#root>

System image file is "bootflash:cat4500e-

lanbase

k9-mz.151-2.SG3.bin"

Cisco IOS

show version | include image

Image:
 Base(lanbase)
 Catalyst
 show version | include image

```
show version
Cisco IOS Software (Cisco Internetwork Operating System Software)
IOS
```

```
show version
Cisco IOS Software (Cisco Internetwork Operating System Software)
IOS
```

```
Cisco IOS Software (C2951-UNIVERSALK9-M), Version 15.5(2)T1
C2951-UNIVERSALK9-M
```

```
Cisco IOS Software (C2951-UNIVERSALK9-M), Version 15.5(2)T1, RELEASE SOFTWARE (fc1)
```

```
<#root>
```

```
Router>
```

```
show version
```

```
Cisco IOS Software, C2951 Software (C2951-UNIVERSALK9-M), Version 15.5(2)T1, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2015 by Cisco Systems, Inc.
Compiled Mon 22-Jun-15 09:32 by prod_rel_team
.
```

```
Cisco IOS Software (Cisco Internetwork Operating System Software)
IOS and NX-OS Software Reference Guide
```

```
Cisco IOS XE Software (Cisco IOS XE Software)
```

```
show version
Cisco IOS XE Software (Cisco IOS Software)
Cisco IOS XE Software
```

æ¬;ã«ãCisco IOS XR ã,½ãf•ãf^ã,|ã,šã,çãfªãfªãf¼ã,¹ 16.2.1

ã«Eå®ÿè;Eã•ã,Eã|ã,,ã|ã«ãã,ªãf³ã,¹ãf^ãf¼ãf«ã•ã,Eã|ã,,ã,ã,ªãfjãf¼ã,ã«ã«

CAT3K_CAA-UNIVERSALK9-M

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<#root>

ios-xe-device#

show version

Cisco IOS Software, Catalyst L3 Switch Software (CAT3K_CAA-UNIVERSALK9-M), Version Denali 16.2.1, REL
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2016 by Cisco Systems, Inc.
Compiled Sun 27-Mar-16 21:47 by mcpre

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Cisco IOS XE ã,½ãf•ãf^ã,|ã,šã,ç

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[IOS and NX-OS Software Reference Guide](#)ãã,ãç...šã—ã«ã|ã«ãããããã,,ã€,

è,†ã¼±æ€šã,'ã«ã,“ãšãã,,ãªãã,,ã“ã”ã«Eçç°èªãã•ã,Eãÿè£½ã”ã

ã»ãã®ã,ã,¹ã,³è£½ã”ãã«ãšã,,ã|ã«ãã”ãã®ã,çãf%ããfãã,ªã,¶ãfªãã®ã½±éÿã,'ã—ã

ã,ã,¹ã,³ããããããã®ã®è,,†ã¼±æ€šãã«E Cisco Catalyst 4500ã,ãfªãf¼ã,°Supervisor Engine

V-10GE(K2)ã¾ããÿããCisco Catalyst

4948ã,¹ã,ªãffãf(K2)ã«ãã½±éÿãã,ãžããããã,,ããã”ã”ã,’çç°èªãã—ã¾ãã—ãããã€,

ã¾ããããããã«æœ-è,,†ã¼±æ€šãã«E Cisco IOS XR ã,½ãf•ãf^ã,|ã,šã,çã«Cisco NX-OS

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ããã®è,,†ã¼±æ€šãã«ã¾ã±|ãã™ãã,ã»žéçããããã,ãšã¾ãã»ãã€,

è†ªç°ªçfª†...ãš BFD æ©ÿèf½ã,'ã½ç”ãã—ãªãã,,ã'ãããããã,°ãfãf¼ãfãf«

ã,³ãf³ãf•ã,fã,®ãf¥ãf-ãf¼ã,ãfšãf³ãfçãf¼ãf%ããš feature bfd disable

ã,³ãfžãf³ãf%ãã,'ã½ç”ãããã™ãã,ãã”ã«©ÿèf½ã,'ç,,jãš¹ãE-ããšãããã¾ãã™ãã€,feature bfd

disableã,³ãfžãf³ãf%ãããã«Cisco

IOSã,½ãf•ãf^ã,|ã,šã,çãfªãfªãf¼ã,¹15.2(1)Eã»¥é™ããšã,^ã³Cisco IOS

URL

<https://tools.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20180328-bfd>

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1.4	ä, æfå^ç''' æf...å ±ã,'æ>'æ-°ã€,
1.3	ãf—ãfçãfãf^ãf•ã,çãf¼ãfã "ã"ã "ã"ã®BFDæçÿèf½ã®ã,µãfãf¼ãf^ã,'æ~Žçç°
1.2	ã"ã"ã,çãf%ãfã,ã,ã,ãfãã®æçÿæç°ã"èªéf"ã^t(CVRFã€OpenVuln API)ã®èç²å½"è£½å"ã«é-çã™ã,æf...å ±ã,'ãçæ£ã€,ãftã,ã,¹ãf^ã®ã,»ã,ã IOSã,½ãf•ãf^ã,ã,šã,çãfã,šãffã,«ãf¼ã«ã%ãæ>'ã"ã,ã,šã¾ã>ã,"ã€,
1.1	BFD æçÿèf½ã®ãfçã,ã,»ãf³ã,¹è!ã»ã,æ~Žçç°ãCE-ã€,ã€CEfeature bfd disableã€ã,³ãfžãf³ãf%ã,'å^ç'''ãšããã,ãfããfãf¼ã,¹ã,'æ~Žçç°ãCE-ã€,
1.0	å^å>žã...-é-ãfããfãf¼ã,¹

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翻訳について

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