

# Cisco IOS S, ^ S Cisco IOS XE

## 1/2 f f ^ a, | a, s a, c a ® DHCP

### f f 1/4 a, a f s a f 3 4

### f a f - a f 1/4 a « a S a ' a, < a, m a f 1/4 a f " a, 1 a | " a ® 3 i 1



a, c a f % a f a, m a, ¶ a f a f 1/4 ID : cisco-sa-20180328-dhcpr3

[CVE-2018-0174](#)

a ^ a ... - e - < a e - ¥ : 2018-03-28 16:00

a e e q a e > a - ° a e - ¥ : 2022-12-15 22:19

a f f 1/4 a, a f s a f 3 1.1 : Final

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

a > z e z c - : No workarounds available

Cisco a f a, ° ID : [CSCuh91645](#)

a e - ¥ a e - e a z a « a, ^ a, < a e f ... a ± a - a e e < ± e a z a « a, ^ a, < a Z Y a - f a ® e z a ... - a 1/4 a

### a i, e i

Cisco IOS a, 1/2 a f f a f ^ a, | a, s a, c a S a, ^ a S Cisco IOS XE a, 1/2 a f f a f ^ a, | a, s a, c a « a S a ' a, < DHCP Option 82

a ® a, « a f - a, » a f « a e - a e © Y e f 1/2 a ® e, t a 1/4 ± a e s a « a, ^ a, S a e e a e 1/4 a a, e a | a, a a a, a f a

a " a ® e, t a 1/4 ± a e s a - a e e e 2 a 1/2 " a, 1/2 a f f a f ^ a, | a, s a, c a e DHCP a f a f - a f 1/4 a, " a f 1/4 a, a, s a f 3 a f ^ a < a, 0 DHCPv4

a f a, ± a f f a f ^ a, e e 2 a 1/2 " a f f a f a, m a, 1 a « e e a z j a T M a, a a " a " a " a « a, ^ a e a | a e a e - e, t a 1/4 ± a e s a DoS c s ¶ a e ... a e c T M o c " Y a T M a, < a e f 1/2 a e s a e a, a, S a 3/4 a T M a e,

a, . a, 1 a, 3 a - a " a ® e, t a 1/4 ± a e s a « a 3/4 a t | a T M a, < a, 1/2 a f f a f ^ a, | a, s a, c a, c a f f a f - a f f a f 1/4 a f ^ a, ' a f a f a f 1/4

a " a ® a, c a f % a f a, m a, ¶ a f a f - a e a e - j a ® a f a f 3 a, - a, ^ a, S c c o e a a s a a a 3/4 a T M a e, <https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20180328-dhcpr3>

a " a ® a, c a f % a f a, m a, ¶ a f a f - a e 2018 a 1 ' 3 a e e ^ 28 a e - ¥ a « a ... - e - a a, e a Y Cisco IOS a S a, ^ a S IOS

XE a, 1/2 a f f a f ^ a, | a, s a, c a ® a, » a, a f f a f a f t a, e a, c a f % a f a, m a, ¶ a f a f a f 3 a f % a f « a ® a, e f " 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,

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- ãf†ãfã,ã,¹ã®è,,†â¼±æ€šã™ã€æ¬ã™ã, Cisco IOS ã,½ãf•ãf^ã,|ã,šã,çãfããfãf¼ã,¹ã¾ãÿã™ã™ Cisco IOS XE ã,½ãf•ãf^ã,|ã,šã,çãfããfãf¼ã,¹ã,â®ÿè;CEã—ã|ã,,ã,ã€è,,†â¼±æ€šã™ã€æ¬ã™ã, Cisco IOS ã,½ãf•ãf^ã,|ã,šã,çããšã,^ã³ IOS XE ã,½ãf•ãf^ã,|ã,šã,çã®ãfããfãf¼ã,¹ã«ãã„ã|ã™ã€ã“ã®ã,çãf%ããfã,ã,ã,ãfãfãfãf¼ã,¹ã«ãã„ã|ã™ã€ã“ã®ã,çãf%ããfã,ã,ã,ãfãfãfãf¼ã,¹ã®ã,ããf³ã,çãf¼ããfã,šã,ã,¹ã™ã€DHCP ãfããf-ãf¼ã,“ãf¼ã,ã,šãf³ãf^ã”ã—ã|è”ã®šã•ã,CEã|ã,,ã,ã€è, ãf†ãfã,ã,ã,¹ã¾ãÿã™ã™ãf†ãfã,ã,ã,¹ã®ã,ããf³ã,çãf¼ããfã,šã,ã,¹ãšã€DHCP ãfããf-ãf¼ã,“ãf¼ã,ã,šãf³ãf^ãæf...ã±¼^Option 82 æf...ã±¼%ã, DHCP ãfã,±ãfãfãfã«æCEçã...ÿã™ã,ã,^ãtã«è”ã®šã•ã,CEã|ã,,ã,ã€è, ãf†ãfã,ã,ã,¹ã¾ãÿã™ã™ãf†ãfã,ã,ã,¹ã®ã,ããf³ã,çãf¼ããfã,šã,ã,¹ãšã€ã»-ã® DHCP ãfããf-ãf¼ã,“ãf¼ã,ã,šãf³ãf^ãã,ã,ã,¹ãšã€—ãã—ã—ã£ãÿ Option 82 æf...ã±ã,ã,ã«ãf—ã,»ãf«ãCE-ã™ã,ã,^ãtã«è”ã®šã•ã,CEã|ã,,ã,ã€è,

## DHCP ãfããf-ãf¼ã,“ãf¼ã,ã,šãf³ãf^è”ã®šã®çç°èª

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CLI ãš show running-config | include ip helper-address

ã,³ãfžãf³ãf%ã,ã½ç”ã—ã¾ã™ã€è, | include ip helper-addressã,³ãfžãf³ãf%ã, CLIãšã®ÿè;CEã—ã¾ã™ã€,ãf†ãfã,ã,ã,¹ã™ã€Cisco cBR-8ã,³ãf³ãfãf¼ã,ãf%ããf-ãfãf¼ããf%ããf³ãf%ããf«ãf¼ã,çãšã,ã,ãã^ã™ã€CLIãšã»£ã,ãšã« show running-config | include cable helper-addressã,³ãfžãf³ãf%ã,ã½çç”ã—ã¾ã™ã€, | include cable helper-addressã,³ãfžãf³ãf%ã, CLIãšã®ÿè;CEã—ã¾ã™ã€,

ã,³ãfžãf³ãf%ã«ã,^ã,šã†°ãšã™ã€è;”ã•ã,CEã,ãã^ã™ã€ãf†ãfã,ã,ã,ã,¹ã® 1ãã»ã»ãšã®ã,ããf³ã,çãf¼ããfã,šã,ã,¹ã™ã€DHCP ãfããf-ãf¼ãã,“ãf¼ã,ã,šãf³ãf^ã”ã—ã|è”ã®šã•ã,CEã|ã,,ã¾ã™ã€,

ã»ã,ã«ã€show running-config | include ip helper-addressã,³ãfžãf³ãf%ã,ã€Cisco IOSã,½ãf•ãf^ã,|ã,šã,çã,â®ÿè;CEã—ã|ã,,ã,ãf†ãfã,ã,ã,ã,¹ã«ã¾ã—ã|ã®ÿè;CEã—ã¾ã™ã€è;”ã®šã•ã,CEã|ã,,ã,ã€è,



Router#

show running-config | include ip dhcp relay information

option 82, encapsulate ip dhcp relay information

Option 82, encapsulate ip dhcp relay information

show running-config | include ip dhcp relay information

DHCP relay information option 82

encapsulate ip dhcp relay information

CLI show running-config | include ip dhcp relay information policy.\*

encapsulate ip dhcp relay information

show running-config | include ip dhcp relay information

Option 82

encapsulate ip dhcp relay information

- ip dhcp relay information policy-action

encapsulate ip dhcp relay information

option 82, encapsulate ip dhcp relay information

- ip dhcp relay information policy encapsulate ip dhcp relay information

encapsulate ip dhcp relay information

Cisco IOS

show running-config | include ip dhcp relay information

DHCP relay information option 82

Option 82

encapsulate ip dhcp relay information

<#root>

Router#

show running-config | include ip dhcp relay information policy.\* encapsulate

ip dhcp relay information policy encapsulate

Router#

show running-config | include ip dhcp relay information policy.\*

encapsulate ip dhcp relay information

## Cisco IOS 15.5(2)T1

```
Router# show version
Cisco IOS 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 15.5(2)T1
Cisco IOS 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
```

```
Router# show version
```

```
Cisco IOS 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
```

```
<#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 15.5(2)T1
```

```
Cisco IOS 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 XE 15.5(2)T1

```
Router# show version
Cisco IOS XE 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
```

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Cisco IOS XE ã,½ãf•ãf^ã, |ã,šã,çã, 'ã®ÿè;Cã—ã|ã,,ã, <ã 'ã^ã€ã,ã,¹ãftãf  
ãfãfŠãf¼ã«ã€C Cisco IOS Softwareã€ã€ã€C Cisco IOS XE  
Softwareã€ã€ãªã©ã®ãftã,ã,¹ãf^ã€Cè;¨çªã•ã,Cã¼ã™ã€,

æ¬;ã«ã€Cisco IOS XR ã,½ãf•ãf^ã, |ã,šã,çããfªãf¼ã,¹ 16.2.1  
ã€Cã®ÿè;Cã•ã,Cã|ã,,ã|ã€ã,ããf³ã,¹ãf^ã¼ãf«ã•ã,Cã|ã,,ã,ã,ããf;ãf¼ã,ããã  
CAT3K\_CAA-UNIVERSALK9-M  
ãšã,ã,ãf†ãfã,ã,ã,¹ãšã®ã,³ãfžãf³ãf%ã®ãª°ãŠ>ã¼ã, 'çªã—ã¼ã™ã€,

<#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,çã  
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[IOS and NX-OS Software Reference Guide](#)ã€ã,ã,ç...Sã—ã|ãããããã•ã,,ã€,

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ã,ã,ã,ãããããã®è,,†ã¼±æ€šã€C Cisco IOS XR ã,½ãf•ãf^ã, |ã,šã,çã¼ãÿã  
Cisco NX-OS  
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ã"ã®è,,†ã¼±æ€šã«ãª¼ãª|ã™ã,ã>žé¿ç-ããã,ã,šã¼ãã>ã,"ã€,









## 翻訳について

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