

Cisco

IOS, 1/2 af af^a, la, sa, cafzaf af a, af a, 1 af af%o a.



af, caf%o af a, ma, af af ID : cisco-sa-20140924-mdns

[CVE-2014-3357](#)

af a...-e-ae-y : 2014-09-24 16:00

[CVE-2014-3358](#)

af af a, af sa f 1.0 : Final

CVSS a, 1a, 3a, c : 7.8

af ze zc- : No Workarounds available

Cisco af a, ID : [CSCul90866](#) [CSCuj58950](#)

ae-yae-e^za «a, ^a, caef...a ±a -a e-e^za «a, ^a, caZYaef-#a ®e za...-a 1/4 a

ae!, e!

afzaf af a, af a, 1 af af%o af a, maf af af a, a, 1 aftaf (mDNS) ae Yef 1/2 a Cisco

IOS a, 1/2 af af^a, la, sa, ca Yef...a a -a mDNS af a, ± aff af^a, a # | c ta TM a, es a «ae-ja ®e, ta 1/4

- Cisco

IOS a, 1/2 af af^a, la, sa, ca ® mDNS a, 2 af 1/4 af^a, la, sa, ma «a Sa a, af jaf caf af af 1/4 a, a ®e, ta 1/4 ±

- Cisco IOS a, 1/2 af af^a, la, sa, ca ® mDNS a, 2 af 1/4 af^a, la, sa, ma «a Sa a, DoSe, ta 1/4 ± ae S

a, a, 1a, 3a -a a, Ca, %o a ®e, ta 1/4 ± ae Sa «a 3/4 a # | a TM a, a, 1/2 af af^a, la, sa, ca, caf af af -af # af 1/4 af^a, /

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20140924-mdns>

ae 1/4 s 2014 a 1 9 ae ^24 ae -ya ® Cisco

IOS a, 1/2 af af^a, la, sa, ca, »a, af ya af af ta, fa, caf%o af a, ma, af af af af 3 af%o af «a...-e-a «a -a e 6a» |

Security

Advisory a Ca «a 3/4 a, Ca | a, a 3/4 a TM a e, a TM a 1 a | a ® a, caf%o af a, ma, af af a -a e Cis

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Event Response: Semiannual Cisco IOS Software Security Advisory Bundled

Publication a e a, a, c...sa -a | a a a a a, a e,

http://www.cisco.com/web/about/security/intelligence/Cisco_ERP_sep14.html

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è©²â½“ã™ã, Cisco IOS, ½ãf•ãf^ã, |ã, Sã, çã ¾ã Yã Cisco IOS
XEã, ½ãf•ãf^ã, |ã, Sã, çã, 'ã®Yè; CEã —ã |ã,,ã, <ã, ·ã, 'ã, ³ãfãfãã, ðã, 'ã «ã è,, tã¼±æ€Sã CEã~ã
IOSã Šã, ^ã³ Cisco IOS XEã, ½ãf•ãf^ã, |ã, Sã, çã Šã —ã€ Cisco
mDNSã, ²ãf¼ãf^ã, |ã, Sã, ðæ©Yèf½ã —ãfãfã, ©ãf«ãf^ã Sæœ%ãŠ¹ã «ãªã£ã |ã,,ã¾ã

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portsã, 'ç™œ; CEã —ã¾ã™ã€ã, ã°ãŠ>ã «ãfãf¼ãf^UDP
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<#root>

```
Router#show ip socket
Proto Remote Port Local Port In Out Stat TTY OutputIF
17 --listen-- 192.168.0.1 67 0 0 1 0
17 --listen-- 192.168.0.1 68 0 0 1 0

17 --listen-- 224.0.0.251 5353 0 0 1 0
```

Router#

```
Router#sho udp
Proto Remote Port Local Port In Out Stat TTY OutputIF
17 224.0.0.251 5353 --any-- 5353 0 0 1000021 0
17(v6) FF02::FB 5353 --any-- 5353 0 0 1020021 0
```

Router#

```
Router#sho control-plane host open-ports
Active internet connections (servers and established)
Prot Local Address Foreign Address Service State
tcp *:22 *:0 SSH-Server LISTEN
tcp *:23 *:0 Telnet LISTEN

udp *:5353 224.0.0.251:0 IOS host service LISTEN
```

Router#

æ³i¼šCisco Bug ID CSCum51028ã®ãž®æfã%ãã® Cisco IOSã Šã, ^ã³ Cisco IOS
XEã, ½ãf•ãf^ã, |ã, Sã, çã®ã•ã½œã —ã€ãfãfãã, ©ãf«ãf^ã ŠmDNSæ©Yèf½ã, 'ã, ãf³ãã «ã™ã, <ã
Bug ID
CSCum51028ã Šãœ%ãæ'ãã, CEã€ç¾ãœã —ãfãfãã, ©ãf«ãf^ã Šç,,iŠ¹ã «ãªã£ã |ã

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version ã,³ãfžãf³ãf%ã,¹ã½;ã¤£ã¤|ã€ã,·ã,¹ãftãf
ãf¤ãfšãf¼ã,'èj`çª°ã¤—ã¤¾ã¤™ã€, "Internetwork Operating System Software"ã€¤"Cisco
IOS Software" ã¤,ã,ã¤,,ã¤¯ã¤¯ã¤,£ã,‰ã¤«éjžã¼¼ã¤™ã,ã,ã,¹ãftãf
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"Version" ã¤` Cisco IOS ã,½ãf·ãf^ã,|ã,`ã,ç
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ãf‡ãf¤ã,ªã,¹ã¤šã¤¯ã¤€¤show version
ã,³ãfžãf³ãf%ã¤£ã~ãçè`ã¤—ã¤ªã¤ã¤£ã¤ÿã,šã€¤ã^ÿã¤®ã†°ãšã¤£èj`çª°ã¤·ã,£ã€¤ÿã

æ¬jã¤®ã¾ã¤¯ã¤€¤Cisco IOS ã,½ãf·ãf^ã,|ã,šã,ç ãfªãfªãf¼ã,¹ã¤£
15.2(4)M5ã€¤ã,ªãf³ã,¹ãf^ãf¼ãf«ã¤·ã,£ã¤ÿã,ªãfjãf¼ã,ã¤¤ã¤£ C3900-UNIVERSALK9-
M ã¤šã¤,ã,ã,ã,¹ã,³è£½á“ ¤ã,'çª°ã¤—ã¤|ã¤,,ã¤¾ã¤™ã€,

<#root>

Router>

show version

Cisco IOS Software, C3900 Software (C3900-UNIVERSALK9-M), 15.2(4)M5, RELEASE SOFTWARE (fc2)
Technical Support: <http://www.cisco.com/techsupport>
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Fri 13-Sep-13 16:44 by prod_rel_team

!--- output truncated

Cisco
IOSã,½ãf·ãf^ã,|ã,šã,çãfªãfªãf¼ã,¹ã¤®ã½á¤¤è|ã¤‰ãfã¤®èj½ãš æf...ã ±ã¤¯ã€¤ã€ŽWhite
[Paper: Cisco IOS and NX-OS Software Reference](#)
[Guideã€¤ã,'ã¤,ç...šã¤—ã¤|ã¤¤ã¤ã¤ã¤·ã¤,,ã€,](#)

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Cisco IOS XR

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Cisco IOS, 1/2 af af a, la, sa, ca @ mDNS, 2 af 1/4 af a, | a, sa, ma « a Š a a, < DoSe,, t a 1/4 ae S

Cisco

IOS, 1/2 af af a, la, sa, ca @ af z af « af a, af E a, 1 af DNS (mDNS) a, 2 af 1/4 af a, | a, sa, ma © Y ef 1/2 a @ è,, t a 1/4 ae S

a « a @ è,, t a 1/4 ae S a a mDNS

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è,, t a 1/4 ae S a @ a, a, è a Š a Y a a a, ae E a Y a TM af t af a, ma, 1 a S a a a, ae E a a UDP

mDNS af a, ± aff af a « a, ^ a E a | a « a @ è,, t a 1/4 ae S a E a 1/4 a è µ a a « a a, E a, < a è f 1/2 ae S a

a « a @ è,, t a 1/4 ae S a a Cisco Bug ID [CSCu190866](#)(

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a, ca, a, » a, 1 a, 3 af 3 af af af 1/4 af « af a, 1 af

Cisco Bug ID CSCum51028 a @ a j a E a E a « a 3/4 a, E a | a,, a a a,, Cisco

IOS a Š a, ^ a 3 Cisco IOS

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!---
!--- Deny IPv4 mDNS traffic to a device
!---

access-list 150 deny udp any any eq 5353

!--- Permit/deny all other Layer 3 and Layer 4 IPv4 traffic in
!--- accordance with existing security policies and
!--- configurations. Permit all other traffic to transit the
!--- device.

access-list 150 permit ip any any

!---
!--- Deny IPv6 mDNS traffic to a device
!---

ipv6 access-list v6_list
deny udp any any eq 5353

!--- Permit/deny all other Layer 3 and Layer 4 IPv6 traffic in
!--- accordance with existing security policies and
!--- configurations. Permit all other traffic to transit the
!--- device.

permit ipv6 any any

!--- Apply access-list to all interfaces (only one example
!--- shown)

interface fastEthernet 2/0
ip access-group 150 in
ipv6 traffic-filter v6_list in

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ã,³ãf³ãf^ãfãf¼ãf«ãf—ãf¬ãf¼ãf³ãfãfã,ãf³ã,°(CoPP)ã,â½ç'''ã—ã|ã€ãf#ãfã,ã,ã,¹ã,ã®ã¿;
IOSã,½ãf•ãf^ã,|ã,šã,çãfããfãf¼ã,¹12.0Sã€12.2SXã€12.2Sã€12.3Tã€12.4ã€ãŠã,^ã³12.4T

æ¬;ã®CoPPã®ä¼ã¬ã€UDPãfãf¼ãf^5353ã,â®>ã...^ã¬ã™ã,ãf^ãf©ãf•ã,£ãffã,¬ã<ã,%ã

!---
!--- Match IPv4 mDNS traffic with permit statement
!---

access-list 150 permit udp any any eq 5353

!--- Permit (Police or Drop)/Deny (Allow) all other Layer3 and
!--- Layer4 IPv4 traffic in accordance with existing security policies
!--- and configurations for traffic that is authorized to be sent

!--- to infrastructure devices
!---

```
access-list 150 deny ip any any
```

!--- Create a Class-Map for traffic to be policed by
!--- the CoPP feature
!---

```
class-map match-all drop-udp-class  
match access-group 150
```

!--- Create a Policy-Map that will be applied to the
!--- Control-Plane of the device.

```
policy-map drop-udp-traffic class drop-udp-class drop
```

!--- Apply the Policy-Map to the
!--- Control-Plane of the device

```
control-plane service-policy  
input drop-udp-traffic
```

Access Control List

ACE 150 deny ip any any

```
map 150 deny ip any any
```

```
IOS 12.2S 12.0S Cisco
```

```
policy-map drop-udp-traffic  
class drop-udp-class  
police 32000 1500 1500 conform-action drop exceed-action drop
```

CoPP IPv6

CoPP

http://www.cisco.com/web/about/security/intelligence/coppwp_gs.html

http://www.cisco.com/en/US/docs/ios/12_4t/12_4t4/htcpp.html
Control Plane Policing
Implementation Best Practices

Cisco Bug ID CSCum51028
IOS XE no service-routing mdns-

sd

Cisco

IOS mdns

IOS, 1/2 af af a, | a, sa, ca @e, ta 1/4 ae sa @a 1/2 ae ya, a — a a, a — ef 1/2 ae sa, a^ ae a — a, a ya, IOS Software Checker a a, a, sa ae ae ja @a, ja, la, a, a @ye; ca sa a a 3/4 a — a

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Check

Cisco IOS XE a, 1/2 af af a, la, sa, ca

Cisco IOS XE

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Cisco IOS a, 1/2 af af a, la, sa, ca af fa fa af 1/4 a, 1a @ Cisco IOS XE a, 1/2 af af a, | a, sa, ca
af fa fa af 1/4 a, 1a @ af za f af af fa, a a «a a a, a | a — a a e ce [Cisco IOS XE 2 Release Notes](#) a e a e ce [Cisco IOS XE 3S Release Notes](#) a e a e a sa, a a e ce [Cisco IOS XE 3SG Release Notes](#) a e a, a, ç ... sa — a | a a a a a a, a e,

Cisco IOS XE a, 1/2 af af a, la, sa, ca af fa fa af 1/4 a, 1	First Fixed Release i 1/4 a @ ae fa a, ca a ye ae ea a a a @ af fa fa af 1/4 a, 1 i %af	IOS, 1/2 af af a,
2.1.x	e, ta 1/4 ae sa a a —	e, ta 1/4 ae sa a, sa
2.2.x	e, ta 1/4 ae sa a a —	e, ta 1/4 ae sa a, sa
2.3.x	e, ta 1/4 ae sa a a —	e, ta 1/4 ae sa a, sa

2.4.x	è,,†å¼±æ€§šãªã—	è,,†å¼±æ€§šãª,ã,š
2.5.x	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
2.6.x	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.1.xS	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.1.xSG	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãªªã—
3.2.xS	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.2.xSE	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.2.xSG	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãªªã—
3.2.xXO	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãªªã—
3.2.xSQ	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãªªã—
3.3.xS	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.3.xSE	3.3.2SE	3.3.2SE
3.3.xSG	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.3.xXO	3.3.1XO	3.3.1XO
3.3.xSQ	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãªªã—
3.4.xS	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.4.xSG	è,,†å¼±æ€§šãªªã—	3.4.4SG
3.4.xSQ	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãªªã—
3.5.xS	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.5.xE	3.5.2E	3.5.2E
3.6.xS	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.6.xE	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãªªã—
3.7.xS	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.7.xE	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãªªã—
3.8.xS	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.9.xS	è,,†å¼±æ€§šãªªã—	è,,†å¼±æ€§šãª,ã,š
3.10.xS	è,,†å¼±æ€§šãªªã—	3.10.4S
3.11.xS	3.11.1S	è,,†å¼±æ€§šãª,ã,š

翻訳について

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