Cisco IOS DHCPã�Œãƒ–ãƒãƒƒã‚¯ã�™ã‚‹ã‚¤ãƒ³ã‚¿ãƒ¼ãƒ•ã‚ of-Service

severity

ã‚¢ãƒ‰ãƒ�ã‚¤ã‚¶ãƒªãƒ¼ID : cisco-sa-20041110-dhcp

åˆ�å…¬é–‹æ—¥ : 2004-11-10 17:00

ãƒ�ãƒ¼ã‚¸ãƒ§ãƒ³ 1.2 : Final

å›žé�¿ç– : No Workarounds available

Cisco ãƒ�ã‚° ID :

[CVE-2004-1111](https://)

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Dynamic Host Configuration Protocolï¼ˆDHCPï¼›ãƒ€ã‚¤ãƒŠãƒŸãƒƒã‚¯ãƒ›ã‚¹ãƒˆã‚³ãƒ³ãƒ•ã‚£ã‚®ãƒ¥ãƒ¬ãƒ¼ã‚·ãƒ§ãƒ³ãƒ—ãƒãƒˆã‚³ãƒ«ï¼‰ãƒ¼ IOSãƒ�ãƒ¼ã‚¸ãƒ§ãƒ³12.2Sã�®ãƒ–ãƒ©ãƒ³ãƒ�ã‚’å®Ÿè¡Œã�—ã�¦ã�„ã‚‹Cisco IOSÂ®ãƒ‡ãƒ�ã‚¤ã‚¹ã�¯ã€�è¨å®šã�•ã‚Œã�¦ã�„ã�ªã�„å ´å�ˆã�§ã‚‚ã€�ã‚µãƒ¼ãƒ“ã‚¹æ‹’å�¦ã� Bug ID CSCee50294(ç™»éŒ²ãƒ¦ãƒ¼ã‚¶å°‚ç”¨)ã�§è¿½è·¡ã�•ã‚Œã�¦ã�„ã�¾ã�™ã€‚

ã�“ã�®ã‚¢ãƒ‰ãƒ�ã‚¤ã‚¶ãƒªã�¯ã€�https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityA sa-20041110-dhcpã�§å…¥æ‰‹ã�§ã��ã�¾ã�™ã€‚

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Cisco IOSãƒ�ãƒ¼ã‚¸ãƒ§ãƒ³12.2(14)SZã€�ã�¾ã�Ÿã�¯Cisco IOS 12.2(18)Sä»¥é™�ã�®ãƒ�ãƒªã‚¢ãƒ³ãƒˆï¼ˆæ¬¡ã�®ã‚»ã‚¯ã‚·ãƒ§ãƒ³ã�«è¨˜è¼‰ï¼‰ã‚’å®Ÿè¡Œã�—

- Cisco 7200ã€�7300ã€�7500ãƒ—ãƒ©ãƒƒãƒˆãƒ•ã‚©ãƒ¼ãƒ
- Cisco 2650ã€�2651ã€�2650XMã€�2651XMãƒžãƒ«ãƒ�ã‚µãƒ¼ãƒ“ã‚¹ãƒ—ãƒ©ãƒƒãƒˆãƒ•ã‚©ãƒ¼ãƒ
- Cisco ONS15530ã€�ONS15540

- Cisco Catalyst 4000ã€�Sup2plusã€�Sup3ã€�Sup4ã€�ã�Šã‚ˆã�³Sup5ãƒ¢ã‚¸ãƒ¥ãƒ¼ãƒ«
- Cisco Catalyst 4500ã€�Sup2Plus TS
- Cisco Catalyst 4948ã€�2970ã€�3560ã€�ã�Šã‚ˆã�³3750
- Cisco Catalyst 6000ã€�Sup2/MSFC2ã�Šã‚ˆã�³Sup720/MSFC3
- Cisco 7600 Sup2/MSFC2ã�Šã‚ˆã�³Sup720/MSFC3

ã�“ã�®å•�é¡Œã�¯ã€�è©²å½“ã�™ã‚‹Cisco IOSãƒ�ãƒ¼ã‚¸ãƒ§ãƒ³12.2(18)EWã€�12.2(18)EWAã€�12.2(14)SZã€�12.2(18)Sã€�12.2(18)SEã€�1 **service dhcp**ã�Œè¨å®šã�•ã‚Œã�¦ã�„ã�ªã�„ã‚·ã‚¹ã‚³ãƒ‡ãƒ�ã‚¤ã‚¹ã�«ã�®ã�¿å½±éŸ¿ã�—ã�¾ã� dhcpã€�ã�Œãƒ‡ãƒ•ã‚©ãƒ«ãƒˆã�§æœ‰åŠ¹ã�«ã�ªã�£ã�¦ã�Šã‚Šã€�ã�“ã�®è„†å¼±æ€§ã� IOSã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ã‚’å®Ÿè¡Œã�™ã‚‹ãƒ«ãƒ¼ã‚¿ã€�ã‚¹ã‚¤ãƒƒãƒ�ã€�ãƒ©ã‚¤ãƒ³ã‚«ãƒ¼ãƒ‰ã�Œå IOSã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ã�Œç¨¼åƒ�ã�—ã�¦ã�„ã�ªã�„Ciscoãƒ‡ãƒ�ã‚¤ã‚¹ã�¯å½±éŸ¿ã‚’å�—ã� **service dhcp**ã‚³ãƒžãƒ³ãƒ‰ã�Œæœ‰åŠ¹ã�«ã�ªã�£ã�¦ã�„ã‚‹ã€�è©²å½“ã�™ã‚‹Cisco IOSã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ã�Œç¨¼åƒ�ã�—ã�¦ã�„ã‚‹Ciscoãƒ‡ãƒ�ã‚¤ã‚¹ã�¯ã€�ã�“ã�®è„†å¼±æ

Cisco è£½å“�ã�§ç¨¼åƒ�ã�—ã�¦ã�„ã‚‹ã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ã‚’ç¢ºèª�ã�™ã‚‹ã�«ã�¯ã€�ãƒ‡ãƒ�ã‚¤ã‚ **version** ã‚³ãƒžãƒ³ãƒ‰ã‚’ç™ºè¡Œã�—ã�¦ã‚·ã‚¹ãƒ†ãƒ ãƒ�ãƒŠãƒ¼ã‚’è¡¨ç¤ºã�—ã�¾ã�™ã€‚Cisco IOSã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ã�¯ã€�ã€ŒInternetwork Operating System Softwareã€�ã�¾ã�Ÿã�¯å�˜ã�«ã€ŒIOSÂ®ã€�ã�¨è¡¨ç¤ºã�•ã‚Œã�¾ã�™ã€‚ å‡ºåŠ›ã�®æ¬¡ã�®è¡Œã�§ã�¯ã€�ã‚¤ãƒ¡ãƒ¼ã‚¸å��ã�Œã‚«ãƒƒã‚³ã�§å›²ã�¾ã‚Œã�¦è¡¨ç¤ºã� Cisco ãƒ‡ãƒ�ã‚¤ã‚¹ã�«ã�¯ **show version** ã‚³ãƒžãƒ³ãƒ‰ã�Œã�ªã�„ã�‹ã€�ç•°ã�ªã‚‹å‡ºåŠ›ã�Œè¿”ã�•ã‚Œã�¾ã�™ã€‚

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Cisco Internetwork Operating System Software IOS (TM)
2500 Software (C2500-IS-L), Version 12.0(3), RELEASE SOFTWARE
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æ¬¡ã�®ä¾‹ã�¯ã€�Cisco IOSãƒªãƒªãƒ¼ã‚¹12.0(2a)T1ã‚’å®Ÿè¡Œã�—ã€�ã‚¤ãƒ¡ãƒ¼ã‚¸å��ã�ŒC2600-JS-MZã�§ã�‚ã‚‹è£½å“�ã‚’ç¤ºã�—ã�¦ã�„ã�¾ã�™ã€‚

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Cisco Internetwork Operating System Software IOS (tm)
C2600 Software (C2600-JS-MZ), Version 12.0(2a)T1, RELEASE SOFTWARE (fc1)
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Cisco IOSãƒªãƒªãƒ¼ã,¹ã�®å‘½å��è¦�å‰‡ã�®è©³ç´°ã�«ã�¤ã�„ã�¦ã�¯ã€�http://www.cisco.com/wa

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no service dhcpã,³ãƒžãƒ³ãƒ‰ã�Œæœ‰åŠ¹ã�«ã�ªã�£ã�¦ã�„ã,‹ã€�è©²å½“ã�™ã,‹Cisco IOSã,½ãƒ•ãƒˆã,¦ã,§ã,¢ã�Œç¨¼åƒ�ã�—ã�¦ã�„ã,‹Ciscoãƒ‡ãƒ�ã,¤ã,¹ã�¯ã€�ã�“ã�®è„†å¼±æ

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Cisco IOSã,½ãƒ•ãƒˆã,¦ã,§ã,¢ã,’å®Ÿè¡Œã�›ã�šã€�ã�“ã�®è„†å¼±æ€§ã�®å½±éŸ¿ã,’å�—ã�‘ã�ªã�„ã,

- 700ã,·ãƒªãƒ¼ã,ºãƒ€ã,¤ãƒ¤ãƒ«ã,¢ãƒƒãƒ—ãƒ«ãƒ¼ã,¿ï¼ˆ750ã€�760ã€�ã�Šã,ˆã�³770ã,·ãƒªãƒ¼ã,ºï¼
- IGXã€�BPXã€�MGXå›žç·šã�ªã�©ã�®WANã,¹ã,¤ãƒƒãƒ�ãƒ³ã,°è£½å“�ã�¯å½±éŸ¿ã,’å�—
- ãƒ›ã,¹ãƒˆãƒ™ãƒ¼ã,¹ã�®ã,½ãƒ•ãƒˆã,¦ã,§ã,¢ã�¯å½±éŸ¿ã,’å�—ã�‘ã�¾ã�›ã,“ã€,
- Cisco PIX Firewallã�¯è©²å½“ã�—ã�¾ã�›ã,“
- Cisco LocalDirectorã�¯å½±éŸ¿ã,’å�—ã�‘ã�¾ã�›ã,“ã€,
- Cisco Content Engineã�Šã,ˆã�³ACNSã�¯å½±éŸ¿ã,’å�—ã�‘ã�¾ã�›ã,“ã€,
- CatOSã,’å®Ÿè¡Œã�—ã�¦ã�„ã,‹Catalyst 2901/2902ã€�2948Gã€�2980Gã€�4000ã€�5000ã€�ã�Šã,ˆã�³6000ã,¹ã,¤ãƒƒãƒ�ã€,
- Cisco Network Registrarã�¯è©²å½“ã�—ã�¾ã�›ã,“ã€,
- Cisco VPN 3000ã,·ãƒªãƒ¼ã,ºã�¯è©²å½“ã�—ã�¾ã�›ã,“
- Cisco IOS-XRãƒ—ãƒ©ãƒƒãƒˆãƒ•ã,©ãƒ¼ãƒ ã�¯è©²å½“ã�—ã�¾ã�›ã,“ã€,
- Cisco MDS 9000ãƒ•ã,¡ãƒŸãƒªã�¯è©²å½“ã�—ã�¾ã�›ã,“ã€,

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DHCPã,µãƒ¼ãƒ“ã,¹ã,’ä½¿ç”¨ã�™ã,‹ã�¨ã€�ãƒ‡ãƒ�ã,¤ã,¹ã�¯ãƒ�ãƒƒãƒˆãƒ¯ãƒ¼ã,¯ã,’ä»‹ã�—ã�¦DHCPã **dhcp**ã�¯å®Ÿè¡Œã,³ãƒ³ãƒ•ã,£ã,®ãƒ¥ãƒ¬ãƒ¼ã,·ãƒ§ãƒ³ã�®è¡¨ç¤ºã�«ã�¯è¡¨ç¤ºã�•ã,Œã�šã€�æ©Ÿèƒ **service dhcp**ã�®ã�¿ã�Œå®Ÿè¡Œã,³ãƒ³ãƒ•ã,£ã,®ãƒ¥ãƒ¬ãƒ¼ã,·ãƒ§ãƒ³ã�®è¡¨ç¤ºã�«è¡¨ç¤ºã�•ã,Œã�¾ã�™ **service dhcp**ã,³ãƒžãƒ³ãƒ‰ã�®æ¬ å¦,ã� ã�‘ã�§ã�™ã€,å·§å¦™ã�«ç´°å·¥ã�•ã,Œã�Ÿç‰¹å®šã�®DHCPãƒ‘ã

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Resolution

Protocolï¼ˆARPï¼›ã,¢ãƒ‰ãƒ¬ã,¹è§£æ±ºãƒ—ãƒãƒˆã,³ãƒ«ï¼‰ã�Œãƒ‡ãƒ•ã,©ãƒ«ãƒˆã�®æ™,é–"ã�§ã�

ãƒ–ãƒãƒƒã,¯ã�•ã,Œã�Ÿå…¥åŠ›ã,¤ãƒ³ã,¿ãƒ¼ãƒ•ã,§ã,¤ã,¹ã,'ç‰¹å®šã�™ã,‹ã�«ã�¯ã€�**show interfaces**ã,³ãƒžãƒ³ãƒ‰ã,'ä½¿ç"¨ã�—ã�¦ã€�Input Queueè¡Œã,'æŽ¢ã�—ã�¾ã�™ã€,å…¥åŠ›ã,ãƒ¥ãƒ¼ã�®ã,µã,¤ã,ºã�Œå¢—ã�ˆç¶šã�'ã,‹å ´å�ˆã�

<#root>

```
Router#

show interface ethernet 0/0

Ethernet0/0 is up, line protocol is up
  Hardware is AmdP2, address is 0050.500e.f1e0 (bia 0050.500e.f1e0)
  Internet address is 172.16.1.9/24
  MTU 1500 bytes, BW 10000 Kbit, DLY 1000 usec, rely 255/255, load 1/255
  Encapsulation ARPA, loopback not set, keepalive set (10 sec)
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:41, output 00:00:07, output hang never
  Last clearing of "show interface" counters 00:07:18
  Input queue: 76/75/1091/0 (size/max/drops/flushes); Total output drops: 0

!--- The 76/75 shows that this is blocked
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- DHCPã,µãƒ¼ãƒ"ã,¹ã�®ç„¡åŠ¹åŒ–
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- ã,¢ã,¯ã,»ã,¹ã,³ãƒ³ãƒˆãƒãƒ¼ãƒ«ãƒªã,¹ãƒˆã�®2ã�¤ã�®ãƒ�ãƒ¼ã,¸ãƒ§ãƒ³

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no service dhcp
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```
access-list 140 deny   udp host 192.168.13.1 any eq bootps
access-list 140 deny   udp any host 192.168.13.1 eq bootps
access-list 140 deny   udp any host 255.255.255.255 eq bootps
access-list 140 permit udp any any eq bootps

class-map match-all bootps-class
  match access-group 140

policy-map control-plane-policy
  class bootps-class

     police 8000 1500 1500 conform-action drop exceed-action drop

control-plane
 service-policy input control-plane-policy
```

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http://www.cisco.com/en/US/prod/collateral/iosswrel/ps6537/ps6586/ps6642/prod_white_paper0900aecd804fa16a.h

ã�“ã�®æ©Ÿèƒ½ã�¯Cisco IOSãƒ�ãƒ¼ã,¸ãƒ§ãƒ³12.2Sã�Šã,ˆã�³12.3Tã�§ã�®ã�¿ä½¿ç"¨ã�§ã��ã,‹ã�Ÿã,�ã€�ã�“ã�®å› IOS 12.2Sã�«ã�®ã�¿é�©ç"¨ã�§ã��ã�¾ã�™ã€,Cisco IOS 12.3Tã�¯ã€�ã�“ã�®ã,¢ãƒ‰ãƒ�ã,¤ã,¶ãƒªã�®å½±éŸ¿ã,'å�—ã�'ã�¾ã�›ã,"ã€,

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ã�“ã�®ä¾‹ã�§ã�¯ã€�IPã,¢ãƒ‰ãƒ¬ã,¹192.168.13.1ã�¯æ£å½“ã�ªDHCPã,µãƒ¼ãƒ�ã,'è¡¨ã�—ã€

ã�“ã�®ä¾‹ã�§ã�¯ã€�ãƒ«ãƒ¼ã,¿ã,¤ãƒ³ã,¿ãƒ¼ãƒ•ã,§ã,¤ã,¹ã,¢ãƒ‰ãƒ¬ã,¹å®›ã�¦ã�®bootp/dhcpãƒ"

```
access-list 100 remark permit bootps from the DHCP server
access-list 100 permit udp host 192.168.13.1 any eq bootps
access-list 100 remark deny bootps from any to router f1/0
access-list 100 deny   udp any host 10.89.236.147 eq bootps
access-list 100 remark deny bootps from any to router f0/0
access-list 100 deny   udp any host 192.168.13.2 eq bootps
access-list 100 remark deny bootps from any to router loopback1
access-list 100 deny   udp any host 192.168.61.1 eq bootps
```

```
access-list 100 remark permit all other traffic
access-list 100 permit ip any any
```

access-list 100ã�¯ã€�f0/0ã�Šã,ˆã�³f1/0ç‰©ç�†ã,¤ãƒ³ã,¿ãƒ¼ãƒ•ã,§ã,¤ã,¹ã�«é�©ç”¨ã�•ã,Œã�¾ã�™ã€,

```
interface FastEthernet0/0
 ip address 192.168.13.2 255.255.255.0
 ip access-group 100 in
interface FastEthernet1/0
 ip address 10.89.236.147 255.255.255.240
 ip access-group 100 in
 ip helper-address 192.168.13.1
```

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access-list 100 permit udp host 192.168.13.1 any eq bootps
access-list 100 permit udp any host 192.168.13.1 eq bootps
access-list 100 permit udp any host 255.255.255.255 eq bootps
access-list 100 deny   udp any any eq bootps

interface FastEthernet0/0
 ip address 192.168.13.2 255.255.255.0
 ip access-group 100 in
interface FastEthernet1/0
 ip address 10.89.236.147 255.255.255.240
 ip access-group 100 in
 ip helper-address 192.168.13.1
```

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https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20041110-dhcp

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翻訳について

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