

# Cisco IOS

XRã,½ãf•ãf^ã,|ã,§ã,cã®BVIãf«ãf¼ãftãffãf%oã



ã,çãf%oãf♦ã,¤ã,¶ãfããf¼ID : cisco-sa-  
20150415-iosxr

[CVE-2015-  
0695](#)

å^♦å...¬é-æ-¥ : 2015-04-15 16:00  
æœ€qæ>`æ-°æ-¥ : 2015-04-17 13:44

ãf♦ãf¼ã,ãfSãf³ 1.1 : Final

CVSSã,¹ã,³ã,¢ : [7.1](#)

å›žé♦¿ç- : No Workarounds available

Cisco ãf♦ã,° ID : [CSCur62957](#)

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Cisco ASR 9000ã,·ãf^ãf¼ã,ºã,¢ã,ºãf^ã,2ãf¼ã,·ãf§ãf³ã,µf¼ãf“ã,¹ãf«ãf¼ã,ç(ASR)ç””ã♦®Cisco IOS  
XRã,½ãf•ãf^ã,|ã,§ã,cã®ãf^ã,±ãffãf^å†|ç♦†ã,³ãf¼ãf%oã♦«ã♦Šã♦’ã,<è,,†å¼±æ€§ã♦«ã,^ã,§ã€♦è^ã  
ASR

9000ã,·ãf^ãf¼ã,ºã,¢ã,ºãf^ã,2ãf¼ã,·ãf§ãf³ã,µãf¼ãf“ã,¹ãf«ãf¼ã,çã♦®Typhoonãf™ãf¼ã,¹ã♦®ãf©ã,¤ãf³

ã♦“ã♦®è,,†å¼±æ€§ã♦¬ã€♦Unicast Reverse Path Forwarding(uRPF)ã€♦Policy-Based  
Routing(PBR)ã€♦Quality of Service(QoS)ã€♦ã♦³/4ã♦Ýã♦¬Access Control  
List(ACL)ã♦®ã♦„ã♦šã,Œã♦æ®æ©Ýèf½ã♦Œè „å®šã♦•ã,Œã♦|ã♦„ã,<å `å♦^ã♦«ã€♦Bridge-  
Group Virtual  
Interface(BVI)ã,’ä»æ—ã♦|ãf«ãf¼ãftã,£ãf³ã,ºã♦•ã,Œã,<ãf^ã,±ãffãf^ã♦®ä,♦é♦©å`‡ã♦^å†|ç♦†ã

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<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20150415-iosxr>

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Typhoon<sup>TM</sup>ãƒ¼ã, 1ãœ®ãƒ©ã, ãœãƒ³ã, «ãƒ¼ãƒ‰oã, 'æœè¼‰oã—ãœCisco ASR  
9000ã, ·ãƒ„ãƒ¼ã, °ãƒ«ãƒ¼ã, ãœ—ãœãœ"ãœ®è,, †å¼±æ€§ãœ®å½±éŸ;ã, 'åœ—ãœ'ãœ¾ãœ™ãœ, ãœ"ãœ

ãœ"ãœ®è,, †å¼±æ€§ãœ®æœæƒå^ç"”ãœŒåœ—èf½ãœ^ãœ®ãœ—ãœBVIã, 'ä»ãœ—ãœ|ãœ•ã, %

## Cisco IOS

XRã, ½ãƒ•ãƒ^ã, |ã, §ã, çãœ§ãœ—ãœãƒ‡ãƒ•ã, ©ãƒ«ãƒ^ãœ§BVIãœPBRãœQoSãœãœŠã, ^ãœ

BVIœŒãƒ‡ãƒ•ã, ãœ, 1ãœ§è „ å®šãœ•ã, œãœ|ãœ„ã, <ãœ<ãœ©ãœ†ãœ<ã, 'çœè^ãœ™ã, <ãœ«ãœ—ãœ  
show running-config | include bviç‰¹æœ©EXECã, ³ãƒžãƒ³ãƒ‰oã, 'ä½çœ”ãœ—ãœ¾ãœ™ãœ,  
interface bviœŒ show running-config | include  
bviœ—ãœBVIœŒè „ å®šãœ•ã, œãœ|ãœ„ã, <ãœ"ãœ“ãœ“ã, 'çœ^ãœ—ãœ¾ãœ™ãœ,

ä»¥ä, <ãœ«ãœ show running-config | include

bviã, ³ãƒžãƒ³ãƒ‰oã, 'äœBVIœŒè „ å®šãœ•ã, œãœCisco IOS

XRã, ½ãƒ•ãƒ^ã, |ã, §ã, çã, 'å®Ÿè;œ—ãœ|ãœ„ã, <ãœãƒ‡ãƒ•ã, ãœ, 1ãœ§å®Ÿè;œ—ãœ¾ãœ™ãœ,

RP/0/RSP0/CPU0:router(admin)# show running-config | include bvi  
interface bvi 50

ã, ãœãƒ³ã, ;ãƒ¼ãƒ•ã, §ã, ãœ, !ãœ§uRPFœŒæœ‰oåŠ¹ãœ«ãœ^ãœ£ãœ|ãœ„ã, <ãœ<ãœ©ãœ†ãœ<ã, 'çœè^ãœ  
show running-config | include verifyç‰¹æœ©EXECã, ³ãƒžãƒ³ãƒ‰oã, 'ä½çœ”ãœ—ãœ¾ãœ™ãœ, ipv4  
verify unicast source reachable-via rxœŒ show running-config | include  
verifyœ—ãœuRPFœŒæœ‰oåŠ¹ãœ§ãœ, ã, <ãœ"ãœ“ãœ“ã, 'çœ^ãœ—ãœ¾ãœ™ãœ,

ä»¥ä, <ãœ«ãœ show running-config | include "verify

source"ã, ³ãƒžãƒ³ãƒ‰oã, 'äœuRPFæ©Ÿèf½ãœŒæœ‰oåŠ¹ãœ«ãœ^ãœ£ãœ|ãœ„ã, <Cisco IOS

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```
RP/0/RSP0/CPU0:router(admin)# show running-config | include "verify source"
    ipv4 verify unicast source reachable-via rx
```

PBRãŒäf‡äfã,¤ã,¹ãŠè „å®šã•ã,Œä„ã,ãœäœ©ãœ†ãœ<ã,'ççºèªãœ™ã,ãœ«ãœ—ãœ

**show running-config policy-map | include**

**pbrç‰‰æŒEXECã,³äfžäf³äf‰‰ã, 'ä½ç”ãœ—ãœ³/4ãœ™ã€, policy-map type pbrãŒ show running-config policy-map | include**

**pbrã—ã€ŒPBRãŒè „å®šã•ã,Œä„ã,ãœ“ãœ”ã,'çœ‰—ãœ³/4ãœ™ã€,**

**æ—ãœ«ã€Œ show running-config policy-map | include**

**pbrã,³äfžäf³äf‰‰ã, 'ä€ŒPBRæŒÝèf½ãŒæœ‰‰ãœ¹ãœ«ãœ‰ãœ£ãœ|ãœ„ã,ãœCisco IOS**

**XRã,½äf•äf^ã, !ã,§ã,çã, 'å®Ýè;Œäœ—ãœ|ãœ„ã,ãœf‡äfã,¤ã,¹ãœ§ãœ®Ýè;Œäœ—ãœÝå 'åœ^ãœ®åœ**

```
RP/0/RSP0/CPU0:router(admin)# show running-config policy-map | include pbr
policy-map type pbr TEST_PBR
```

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**show running-config | include access-**

**groupç‰‰æŒEXECã,³äfžäf³äf‰‰ã, 'ä½ç”ãœ—ãœ³/4ãœ™ã€, ipv4 access-groupãŒ show running-config | include access-**

**groupã—ã€ŒACLãŒè „å®šã•ã,Œä„ã,ãœ“ãœ”ã,'çœ‰—ãœ³/4ãœ™ã€,**

**ä»¥ä,ãœ«ã€Œ show running-config | include access-**

**groupã,³äfžäf³äf‰‰ã, 'ä€ŒACLæŒÝèf½ãŒæœ‰‰ãœ¹ãœ«ãœ‰ãœ£ãœ|ãœ„ã,ãœCisco IOS**

**XRã,½äf•äf^ã, !ã,§ã,çã, 'å®Ýè;Œäœ—ãœ|ãœ„ã,ãœf‡äfã,¤ã,¹ãœ§ãœ®Ýè;Œäœ—ãœÝå 'åœ^ãœ®åœ**

```
RP/0/RSP0/CPU0:router(admin)# show running-config | include access-group
    ipv4 access-group TEST_IN ingress
```

ã,¤f³ã,;ãf¹/₄f•ã,§ã,!ã♦§QoSã♦Œæœ‰oåš¹ã♦«ã♦³ã♦£ã♦|ã♦„ã,<ã♦<ã♦©ã♦†ã♦<ã,’çCºèªã♦ã  
show running-config | include service-

policyç‰o¹æ”ŒEXECã,³ãfžãf³ãf‰oã,’ä½ç””ã♦—ã♦³/₄ã♦™ã€, service-policy inputã♦³/₄ã♦Ýã♦—  
service-policy outputã♦Œ show running-config | include service-

policyã♦—ã€♦QoSã♦Œè”å®šã♦•ã,Œã♦|ã♦„ã,<ã♦“ã♦”ã,’ç‰oã♦—ã♦³/₄ã♦™ã€,

ä»¥ä,<ã♦«ã€♦ show running-config | include service-

policyã,³ãfžãf³ãf‰oã,’ã€♦QoSæ©Ýèf½ã♦Œè”å®šã♦•ã,Œã♦ÝCisco IOS

XRã,½ãf•ãf^ã,|ã,§ã,çã,’å®Ýè;Œã♦—ã♦|ã♦„ã,<ãf‡f♦ã,¤ã,¹ã♦§å®Ýè;Œã♦—ã♦³/₄ã♦™ã€,

```
RP/0/RSP0/CPU0:router(admin)# show running-config | include service-policy  
service-policy input test_in  
service-policy output test_out
```

Cisco ASR

9000ã,·ãf³ãf¹/₄ã,ºã,¤f¹/₄ã,µf♦ãffãf^ãf©ã,¤ãf³ã,«ãf¹/₄ãf‰oã♦®ç¬¬2ä,—ä»£ã♦—ã€♦Typhoonãf™ãf¹/₄ã,  
ãf—ãfã,»ãffã,µï¼^NPï¼‰oã♦«ç”±æ♦¥ã♦—ã♦³/₄ã♦™ã€,

æ¬¡ã♦®ãf©ã,¤ãf³ã,«ãf¹/₄ãf‰oã♦— Typhoon ãf™ãf¹/₄ã,¹ã♦§ã♦™ã€,

- A9K-MOD80-SE
- A9K-MOD80-TR
- A9K-MOD160-SE
- A9K-MOD160-TR
- A9K-24X10GE-SE
- A9K-24X10GE-TR
- A9K-36X10GE-SE
- A9K-36X10GE-TR
- A9K-2X100GE-SE
- A9K-2X100GE-TR
- A9K-1X100GE-SE
- A9K-1X100GE-TR

ASR

9000.ãfãf¼ã,ºãf«ãf¼ã,çã®ãf©ã,¤ãf³ã,«ãf¼ãf‰oãŒTyphoonãf™ãf¼ã,¹ãœ<ãœ©ãœ†ãœ<ãœ'çœ  
show

diagã,³ãfžãf³ãf‰oã,’ä½ç”ãœ—ãœ³/4ãœ™ã€,è©²ã½“ãœ™ã,¤ãf‡ãfœã,¤ã,¹ãœ«ãœ—ãœ‰’ãœãœãœãœ  
24X10GE-

SEã,«ãf¼ãf‰oãŒã,çã,—ãœftã,£ãf-ãœ«ãœ„ãœ£ãœ!ãœ,,ã,¤ãf‡ãfœã,¤ã,¹ã,’çœºãœ—ãœ!ãœ„ãœ³/4ãœ

RP/0/RSP0/CPU0:router(admin)# show diag

Mon Jun 22 12:55:10.554 PST

NODE module 0/RSP0/CPU0 :

MAIN: board type 0x100302

!--- output truncated

NODE module 0/1/CPU0 :

MAIN: board type 0x20207

S/N: FOC123081J6

Top Assy. Number: 68-3182-03

PID: A9K-24X10GE-SE

UDI\_VID: V1D

HwRev: V0.0

New Deviation Number: 0

CLEI:

Board State : IOS XR RUN

PLD: Motherboard: N/A, Processor: 0x8004 (rev: 2.2), Power: N/A

ROMMON: Version 1.0(20081208:174521) [ASR9K ROMMON]

!--- output truncated

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æ³·í¼š4 .3.1ã,^ã,Šã‰ã♦ã♦®Cisco IOS

XRã,½ãƒ•ãƒ¤ã,|ã,§ã,¢ã♦®ãƒ¤ãƒ¤ãƒ¼ã,¹ã♦—ã€♦ã♦”ã♦®è,,†å½±æ€§ã♦®å½±éÝ¿ã,’å♦—ã♦’ã♦³/4ã♦™ã€,

Tridentãƒ™ãƒ¼ã,¹ã♦®ãƒ©ã,¤ãƒ³ã,«ãƒ¼ãƒ‰ã,’æ♦è½‰ã♦—ã♦ÝCisco ASR 9000ã,·ãƒ¤ãƒ¼ã,ºãƒ«ãƒ¼ã,¿ã♦—ã€♦ã♦”ã♦®è,,†å½±æ€§ã♦®å½±éÝ¿ã,’å♦—ã♦’ã♦³/4ã♦™ã€,ASR 9000ã,·ãƒ¤ãƒ¼ã,ºã,¤ãƒ¼ã,µãƒ♦ãffãƒ^ãf©ã,¤ãƒ³ã,«ãƒ¼ãƒ‰ã♦®ç¬¬1ã,—ã»£ã♦—ã€♦Tridentãƒ™ãƒ¼ã,

æ¬\_ã♦®ãƒ©ã,¤ãƒ³ã,«ãƒ¼ãƒ‰ã♦—Tridentãƒ™ãƒ¼ã,¹ã♦§ã♦™ã€,

- A9K-40GE-L
- A9K-40GE-B
- A9K-40GE-E
- A9K-4T-L
- A9K-4T-B
- A9K-4T-E
- A9K-8T/4-L
- A9K-8T/4-B
- A9K-8T/4-E
- A9K-2T20GE-L
- A9K-2T20GE-B
- A9K-2T20GE-E
- A9K-8T-L
- A9K-8T-B
- A9K-8T-E
- A9K-16T/8-B

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Cisco ASR 9000ã,·ãƒ¤ãƒ¼ã,ºã,¢ã,ºãƒ¤ã,²ãƒ¼ã,·ãƒ§ãƒ³ã,¶ãƒ¼ãƒ“ã,¹ãƒ«ãƒ¼ã,¿(ASR)ç””ã♦®Cisco IOS

XRã½ãƒ•ãƒ^ã, |ã, §ã, Çã®ãƒ'ã, ±ãffãf^å†|ç‡†ã, ³ãf¼ãf‰ã«ã‡Šã‡'ã, <è,, †å¼±æ€§ã‡«ã, ^ã, Šã€‡è‡  
ASR

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ã“ã®è„, †å¼±æ€§ã‡~ã€‡Unicast Reverse Path Forwarding(uRPF)ã€‡Policy-Based  
Routing(PBR)ã€‡Quality of Service(QoS)ã€‡ã‡¾ã‡Ýã‡~Access Control  
List(ACL)ã‡®ã„, ã‡šã, ¶ã‡[æ©Ýèf½ã‡](#)¶è „ å®šã‡•ã, ¶ã‡|ã‡„ã, [å`^ã‡»ã€‡Bridge-](#)  
Group Virtual  
Interface(BVI)ã, 'ä»[ã‡—ã‡|ãf«ãf¼ãftã, fãf³ã, °ã‡•ã, ¶ã‡, <ãf'ã, ±ãffãf^ã‡®ä, ¶é‡©å`^ã‡ªå†|ç‡†ã,](#)

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ã“ã®è„, †å¼±æ€§ã‡~ã€‡ç¹°ã, Šèç"ã‡—ä, ¶æ£å`^ç"”ã‡•ã, ¶ã€‡é•æ™, é—“ã‡«ã, ¶ã‡Ýã, [DoSç](#)

ã“ã®è„, †å¼±æ€§ã‡~ã€‡Cisco Bug ID [CSCur62957](#)(  
[ç™»éŒ2äf½ã, ¶å°, ç””\)](#)ã‡~ã‡—ã‡|æ-‡æ, åŒ-ã‡•ã, ¶ã€‡Common Vulnerabilities and  
Exposures(CVE)IDã‡~ã‡—ã‡|CVE-2015-  
0695ã‡Œå‰²ã, Šå½“ã‡|ã, %oã, ¶ã‡|ã‡„ã‡¾ã‡™ã€,

## å›žé‡¿ç-

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ã‡® Cisco Security Advisories, Responses, and Alerts

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Technical Assistance

Centerï¼^TACï¼‰ã, ã‡—ã‡‡ã‡~å¥ç, „ã‡—ã‡|ã‡„ã, ¶ãfjãf³ãftãf§ãf³ã, ¹ãf—ãfãf‡ã, ¶ãf€ãf¼ã‡»ã

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XRã½ãƒ•ãƒ^ã, | ã,§ã,çãƒ|ãƒ³ãƒ†ãƒšãƒ³ã,¹ã,çãffãf—ãƒ‡ãƒ¼ãƒ^(SMU)ã“§ä;®æ£ã♦•ã,Œã♦|ã„ã♦¾ã♦

- **asr9k-px-4.3.4.CSCur62957.pie** i¼^ãƒ♦ãƒ¼ã,ãƒ§ãƒ³4.3.4ç”“i¼%o
- **asr9k-px-5.1.2.CSCur62957.pie** i¼^ãƒ♦ãƒ¼ã,ãƒ§ãƒ³5.1.2ç”“i¼%o
- **asr9k-px-5.1.3.CSCur62957.pie** i¼^ãƒ♦ãƒ¼ã,ãƒ§ãƒ³5.1.3ç”“i¼%o
- **asr9k-px-5.2.2.CSCur62957.pie** i¼^ãƒ♦ãƒ¼ã,ãƒ§ãƒ³5.2.2ç”“i¼%o
- **asr9k-px-5.3.0.CSCur62957.pie** i¼^ãƒ♦ãƒ¼ã,ãƒ§ãƒ³5.3.0i¼%o

æ³”i¼š 4.3.1ã,^ã,§å‰♦ã®Cisco IOS

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## ã,♦æ£å^ç”“æ°<æ¾<ã♦“å...¬å¼ç™oè;”

Cisco Product Security Incident Response

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TACã♦«ã,^ã♦£ã♦|ç™oè|<ã♦•ã,Œã♦¾ã♦—ã♦Ýã€,

## URL

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20150415-iosxr>

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## 翻訳について

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