

Cisco IOSã,½ãf•ãf^ã,|ã,§ã,cã?®Resource Reservation

Protocoli¼^RSVPi¼>ãf^ã,½ãf¼ã,¹æ°^ç„ãf—ãfãj



ã,çãf%oãf♦ã,¤ã,¶ãf^ãf¼ID : cisco-sa-
20130925-rsvp

[CVE-2013-
5478](#)

å^♦å...¬é-æ—¥ : 2013-09-25 16:00
æœ€gæ»`æ—°æ—¥ : 2014-03-12 12:54

ãf♦ãf¼ã,ãfsãf³ 1.1 : Final

CVSSã,¹ã,³ã,c : [7.8](#)

å›žé♦¿ç- : No Workarounds available

Cisco ãf♦ã,° ID : [CSCuf17023](#)

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Cisco IOSã,½ãf•ãf^ã,|ã,§ã,cã?Šã,^ã?³Cisco IOS XEã,½ãf•ãf^ã,|ã,§ã,cã?®Resource Reservation

Protocol(RSVP)æ©Ÿèf½ã♦®è,,†å¼±æ€§ã♦¬ã€♦UDP

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<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20130925-rsvp>

æ³”í¼š2013å¹’9æœ^25æ—¥ã♦®Cisco

Advisory — [View details](#)

IOSÃ,½Ãf·Ãf^Ã, | Ã,§Ã,¢Ã®è, †å¼±æ€§Ã«å¬¾å†| Ã—Ã? | Ã„Ã¾Ã™Ã€,å,„Cisco

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IOS 12.4(15)S2, Cisco

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...& Cisco Event Response:

Semiannual Cisco IOS Software Security Advisory Bundled

Publication™

http://www.cisco.com/web/about/security/intelligence/Cisco_ERP_sep13.html

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IOS, Cisco IOS

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Routing and

Forwarding(VRF) æ, æf³, ð, ðf¹æf•æ, §æ, æ, 'æ ð EèE...å, "æ ð •æ, Eæ ð | æ ð „æ, å 'å ð ^æ ð «è, †å ¼±æ€§æ ð

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- MPLS Traffic Engineering (RSVP-TE)
 - VRF-Lite
 - Cisco 7600

```
Router#show ip rsvp
RSVP: disabled (not enabled on any interface)
```

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```
Router#show ip rsvp
RSVP: enabled (on 1 interface(s))
```

æ³ý¹/šCisco

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UNIVERSALK9-Mã♦Sã♦,ã,<ã,·ã,¹ã,³è£¹/2å“♦ã,’ç¤ºã♦—ã♦|ã♦,,ã♦³/4ã♦™ã€,

<#root>

Router>

show version

Cisco IOS Software, C3900 Software (C3900-UNIVERSALK9-M), Version 15.0(1)M1, RELEASE SOFTWARE
Technical Support: <http://www.cisco.com/techsupport>
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! --- output truncated

Cisco

Paper: Cisco IOS and NX-OS Software Reference
Guide, , ç...§—, |, ã, ã, „, <http://www.cisco.com/web/about/security/intelligence/ios-ref.html>.

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Cisco IOS

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Cisco IOS NX-

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Cisco IOS 12.4(15)S3 Cisco IOS

XEÃ½Ãƒ•Ãƒ^Ã, | Ã, Ã, CÃ® RSVPÆ© Ýèf½Ã?@Rè,, tå¼±æ€§Ã?«Ã, ^Ã, ŠÃ€?è^Ã?è „½Ã?•Ã, CÃ? | Ã?„Ã?^Ã?

„**UDP**“

IOS 12.2(15)S3 Cisco IOS

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RSVP www.afffah.com | info@afffah.com | +91 98333 22222 | +91 98333 22222

“ã¢”ã¢®è„†å¼±æ€§ã¢—ã¢ UDPã¢ãƒ¼ãƒ^1698ã¢§RSVP over UDP over IPv4ã¢” RSVP over UDP over IPv6ã¢®ã¢æ-¹ã¢’½;ç”‘ã¢—ã¢!ã¢æ£å^ç”‘ã¢§ã¢?ã¢ã¢¾ã¢™ã¢, UDP

over IPv6 ◊ §◊®◊æ◊æ◊Cisco

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IOS Queue Wedges Explained—The Basics

http://blogs.cisco.com/security/cisco_ios_queue_wedges_explained/

“Cisco Buq ID CSCuf17023(

[Common Vulnerabilities and](#)

Exposures(CVE)ID—CVE-2013-

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È, †à½±æ€§â®â„, ã, < Cisco IOS âƒ‡ãfâ„, ã, ¹â„, Šâ„§ã€â„ Tool Command

LanguageTM TCLTM oo^o «åÝºä?¥ä?çü,,ä?¿è¾ä?¿ä,¤äfTMäf³äf[^]

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Cisco IOS

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IOS EEM

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Queue Wedges Explained Cisco IOS

http://blogs.cisco.com/security/cisco_ios_queue_wedges_explained/

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IP RSVP配置示例

```
IP RSVP配置示例

在全局模式下，使用以下命令配置 RSVP 监听器：
ip rsvp listener vrf-name ip-address udp 1698
announce 1698
```

注意：此命令仅适用于 Cisco IOS 路由器。对于 Cisco Catalyst 交换机，应使用 `ip rsvp listener vrf-name ip-address udp 1698` 命令。

在访问列表中，可以使用以下语句来保护 RSVP 通信：

```
access-list 150 permit udp source 192.168.1.1 1698 destination 192.168.1.1 1698
access-list 150 deny ip any any
```

在全局模式下，使用以下命令应用访问列表：

```
ip access-group 150 in
```

----- Feature: RSVP over UDP! -----

```
access-list 150 permit udp TRUSTED_SOURCE_ADDRESSES WILDCARD
INFRASTRUCTURE_ADDRESSES WILDCARD eq 1698
```

----- Deny RSVP over UDP traffic from all other sources destined !--- to infrastructure addresses.

```
access-list 150 deny udp any
INFRASTRUCTURE_ADDRESSES WILDCARD eq 1698
```

----- Permit/deny all other Layer 3 and Layer 4 traffic in !--- accordance with existing security policies.

```
access-list 150 permit ip any any
```

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

```
interface fastEthernet 2/0
ip access-group 150 in
```

以上配置展示了如何通过访问列表（Access List）来保护 RSVP 通信，确保只有可信的源地址（Trusted Source Addresses）和基础设施地址（Infrastructure Addresses）能够发送 RSVP 报文。同时，通过应用访问列表到所有接口，确保所有其他层3和层4的流量都遵循现有的安全策略。

参考资料：
http://www.cisco.com/en/US/tech/tk648/tk361/technologies_white_paper09186a00801a1a55.shtml

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! --- Feature: RSVP over UDP

```
access-list 150 deny udp TRUSTED_SOURCE_ADDRESSES WILDCARD  
    any eq 1698
```

!--- Deny RSVP over UDP traffic from all other sources destined !--- to the device control plane.

```
access-list 150 permit udp any any eq 1698
```

!--- Permit (Police or Drop)/Deny (Allow) all other Layer3 and !--- Layer4 traffic in accordance with ex

```
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
```

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map ã◆® "drop" æ©Ÿèf½ã◆«ã,^ã,Šå»fæ£,,ã◆•ã,Œã◆¾ã◆™ã◆Œã€◆ä,€æ-¹ã◆"deny"

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```

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

```

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http://www.cisco.com/en/US/docs/ios/12_4t/12_4t4/htcpp.htmlã♦«ã♦,ã,<ã€žControl Plane Policing Implementation Best Practicesã♦Šã,^ã♦³ã€žControl Plane Policingã♦ã,’ã♦,ç...šã♦—ã♦!ã♦¤ã♦ã♦ã♦·ã♦,,ã€,

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Technical Assistance

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| 15.0ED | è,,†å¼±æ€§ã♦^ã♦— |
| 15.0EH | è,,†å¼±æ€§ã♦^ã♦— |
| 15.0EJ | è,,†å¼±æ€§ã♦^ã♦— |
| 15.0EX | Cisco IOS XEãƒ†ãƒ♦ã,¤ã,¹ï¼šã€ŒCisco IOS XEã,½ãƒ•ãƒ^ã,¡ã,§ã,cã♦®ã,çã |
| 15.0EY | è,,†å¼±æ€§ã♦^ã♦— |
| 15.0EZ | è,,†å¼±æ€§ã♦^ã♦— |
| 15.0M | è,,†å¼±æ€§ã♦,ã,Šã€,æœ€å^ã♦ã♦®ä¿®æ£ã♦—ãƒ¤ãƒ¤ãƒ¼ã,¹15.1M |
| 15.0MR | è,,†å¼±æ€§ã♦^ã♦— |
| 15.0ç§’ | è,,†å¼±æ€§ã♦^ã♦— Cisco IOS XEãƒ†ãƒ♦ã,¤ã,¹ï¼šã€ŒCisco IOS XEã,½ãƒ•ãƒ^ã,¡ã,§ã,cã♦®ã,çã |
| 15.0SE | è,,†å¼±æ€§ã♦^ã♦— |
| 15.0SG | è,,†å¼±æ€§ã♦^ã♦— Cisco IOS XEãƒ†ãƒ♦ã,¤ã,¹ï¼šã€ŒCisco IOS XEã,½ãƒ•ãƒ^ã,¡ã,§ã,cã♦®ã,çã |
| 15.0SQA | Cisco IOS XEãƒ†ãƒ♦ã,¤ã,¹ï¼šã€ŒCisco IOS XEã,½ãƒ•ãƒ^ã,¡ã,§ã,cã♦®ã,çã |
| 15.0SQB | Cisco IOS XEãƒ†ãƒ♦ã,¤ã,¹ï¼šã€ŒCisco IOS XEã,½ãƒ•ãƒ^ã,¡ã,§ã,cã♦®ã,çã |
| 15.0SY | 15.0(1)SY5 |
| 15.0XA | è,,†å¼±æ€§ã♦,ã,Šã€,æœ€å^ã♦ã♦®ä¿®æ£ã♦—ãƒ¤ãƒ¤ãƒ¼ã,¹15.1M |
| 15.0XO | è,,†å¼±æ€§ã♦^ã♦— Cisco IOS XEãƒ†ãƒ♦ã,¤ã,¹ï¼šã€ŒCisco IOS XEã,½ãƒ•ãƒ^ã,¡ã,§ã,cã♦®ã,çã |
| å½±éÝ;ã,’å♦—ã♦’ã, < 15.1 ãƒ™ãƒ¼ã,¹ã♦®ãƒ¤ãƒ¤ãƒ¼ã,¹ | |
| 15.1EY | è,,†å¼±æ€§ã♦,ã,Šã€,æœ€å^ã♦ã♦®ä¿®æ£ã♦—ãƒ¤ãƒ¤ãƒ¼ã,¹15.2S |
| 15.1GC | è,,†å¼±æ€§ã♦,ã,Šã€,æœ€å^ã♦ã♦®ä¿®æ£ã♦—ãƒ¤ãƒ¤ãƒ¼ã,¹15.1M |
| 15.1M | 15.1(4)M7 |
| 15.1MR | è,,†å¼±æ€§ã♦Œå~åœ”ã♦—ã♦¾ã♦™ã€,ã♦“ã♦®ã,çãƒ‰ãƒ♦ã,¤ã,¶ãƒ¤ãƒ¤ãƒ¼ã,¹15.1M |
| 15.1 MRA | 15.1(3)MRA2 |
| 15.1S | 15.1(3)S6 |

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| | Cisco IOS XEäf†äf♦ä,¤ä,¹i¼šä€ŒCisco IOS XEä,½äf•äf~ä, ä,§ä,cä♦®ä,çä |
| 15.1SG | è,,†å¼±æ€§ä♦ä— Cisco IOS XEäf†äf♦ä,¤ä,¹i¼šä€ŒCisco IOS XEä,½äf•äf~ä, ä,§ä,cä♦®ä,çä |
| 15.1SNG | è,,†å¼±æ€§ä♦Œä~åœ“ä♦—ä♦¾ä♦™ä€,ä♦“ä♦®ä,çäf‰äf♦ä,¤ä,¶äj |
| 15.1SNH | è,,†å¼±æ€§ä♦Œä~åœ“ä♦—ä♦¾ä♦™ä€,ä♦“ä♦®ä,çäf‰äf♦ä,¤ä,¶äj |
| 15.1SNI | è,,†å¼±æ€§ä♦Œä~åœ“ä♦—ä♦¾ä♦™ä€,ä♦“ä♦®ä,çäf‰äf♦ä,¤ä,¶äj |
| 15.1SVD | è,,†å¼±æ€§ä♦ä— |
| 15.1SVE | è,,†å¼±æ€§ä♦ä— |
| 15.1SVF | è,,†å¼±æ€§ä♦ä— |
| 15.1SY | 15.1(1)SY2i¼2013å¹’10æœ^28æ—¥ä♦«å...¥æ‰oå♦—èf½i¼‰o 15.1(2)SY |
| 15.1T | è,,†å¼±æ€§ä♦,¤ä,Šä€,æœ€å^♦ä♦®ä¿®æ£ä♦—äf¤äf¼ä,¹15.1M |
| 15.1XO | è,,†å¼±æ€§ä♦ä— |
| å¼±éÿ;ä,’ä♦—ä♦’ä, < 15.2 äf™äf¼ä,¹ä♦®äf¤äf¤äf¼ä,¹ | |
| 15.2E | è,,†å¼±æ€§ä♦ä— |
| 15.2 GC | 15.2(4)GC |
| 15.2JA | è,,†å¼±æ€§ä♦ä— |
| 15.2JAX | è,,†å¼±æ€§ä♦ä— |
| 15.2JB | è,,†å¼±æ€§ä♦ä— |
| 15.2JN | è,,†å¼±æ€§ä♦ä— |
| 1,520ä,‡ | 15.2(4)M4 |
| 15.2ç§’ | 15.2(4)S4 |
| 15.2SA | 15.2(2)SA |
| 15.2SNG | è,,†å¼±æ€§ä♦Œä~åœ“ä♦—ä♦¾ä♦™ä€,ä♦“ä♦®ä,çäf‰äf♦ä,¤ä,¶äj |
| 15.2SNH | è,,†å¼±æ€§ä♦Œä~åœ“ä♦—ä♦¾ä♦™ä€,ä♦“ä♦®ä,çäf‰äf♦ä,¤ä,¶äj |
| 15.2SNI | è,,†å¼±æ€§ä♦,¤ä,Šä€,æœ€å^♦ä♦®ä¿®æ£ä♦—äf¤äf¤äf¼ä,¹15.3S |
| 15.2T | 15.2(2)T4 15.2(3)T4 |
| å¼±éÿ;ä,’ä♦—ä♦’ä, < 15.3 äf™äf¼ä,¹ä♦®äf¤äf¤äf¼ä,¹ | |
| 15.3M | è,,†å¼±æ€§ä♦ä— |
| | 15.3(2)S |
| 15.3ç§’ | 15.3(3)S Cisco IOS XEäf†äf♦ä,¤ä,¹i¼šä€ŒCisco IOS XEä,½äf•äf~ä, ä,§ä,cä♦®ä,çä |

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| 15.3T | 15.3(1)T2 15.3(2)T1 |
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Cisco IOS XE 9.1(2)F3

Cisco IOS 12.2(15)S-1 Cisco IOS XE 12.2(15)S-1 Cisco IOS XE 2 Release Notes Cisco IOS XE 3S Release Notes Cisco IOS XE 3SG Release Notes

| Cisco IOS XE ã,½ãf•ãf^ã, ã,§ã,c ãfãfãf¹/₄ã, ¹ | | First Fixed Releaseï¹/₄æ®æ£ã◊•ã,Œã◊Ýæœ€å^◊ã◊®ãfããfãf¹/₄ã, 'i¹/₄%o | IO |
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| 2.1.x | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 2.2.x | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 2.3.x | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 2.4.x | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 2.5.x | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 2.6.x | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 3.1.xS | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 3.1.xSG | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 3.2.xS | | è,,†å¹/₄±æ€§ã◊,ã,Šã€,3.4.6Sä»¥é™◊ã◊«ç§»èŒã◊—ã◊!ã◊◊◊ã◊ ã◊•ã◊„ã€, | è,,† |
| 3.2.xSE | | è,,†å¹/₄±æ€§ã◊^aã◊— | 3.2 |
| 3.2.xSG | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 3.2.xXO | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 3.2.xSQ | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 3.3.xS | | è,,†å¹/₄±æ€§ã◊,ã,Šã€,3.4.6Sä»¥é™◊ã◊«ç§»èŒã◊—ã◊!ã◊◊◊ã◊ ã◊•ã◊„ã€, | è,,† |
| 3.3 X SG | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 3.3xXO | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 3.3 Xå¹³æ-¹ | | è,,†å¹/₄±æ€§ã◊^aã◊— | è,,† |
| 3.4.xS | | 3.4.6ç§' | 3.4 |

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| 3.4.xSG | è,,†å¼±æ€§ã?^aã?— | 3.4 |
| 3.5.xE | è,,†å¼±æ€§ã?^aã?— | è,,† |
| 3.5.xS | è,,†å¼±æ€§ã?^a,Šã€,3.7.4Sä»¥é™ã?^a?«ç§»è;Œã?—ã?^a? ã?^a?ã?^a?ã?•ã?^a?„ã€, | è,,† |
| 3.6.xS | è,,†å¼±æ€§ã?^a,Šã€,3.7.4Sä»¥é™ã?^a?«ç§»è;Œã?—ã?^a? ã?^a?ã?^a?ã?•ã?^a?„ã€, | è,,† |
| 3.7.xS | 3.7.4S | 3.7 |
| 3.8.xS | è,,†å¼±æ€§ã?^a,Šã€,3.9.0Sä»¥é™ã?^a?«ç§»è;Œã?—ã?^a? ã?^a?ã?^a?ã?•ã?^a?„ã€, | è,,† |
| 3.9.xS | è,,†å¼±æ€§ã?^a?— | 3.9 |
| 3.10.xS | è,,†å¼±æ€§ã?^a?— | è,,† |

* Cisco Catalyst 4500 Supervisor Engine 7-E² Š, ^ã² 7L-E², æ² è1%oã²—ã² ŸCisco Catalyst 4500, ·ãf² ãf² 4ã, °ã, ¹ã, ¶ãffäf² ã€² ã² Š, ^ã² 3Cisco Catalyst 4500-Xã, ãf² ãf² 4ã, °ã, ¹ã, ¶ãffäf² ã² ã² Cisco IOS
XE² ½ã² f² ãf² ã, |ã, §ã, cãf² a² f² 4ã, 13.4SG² «ç§»è; CE² Šã² ?² ?² ã² ¾ã² ™ã² ,

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Cisco Product Security Incident Response

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URL

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20130925-rsvp>

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| 1.0 | 2013å¹'9æœ^25æ—¥ | å^♦ç‰^ãƒªãƒªãƒ¼ã,¹ |

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翻訳について

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