

# Cisco IOS SIP Session Initiation Protocol Denial of Service (DoS) Vulnerability



**Severity:** High  
**Product:** Cisco SIP

**CVE-2009-2870**

**Date:** 2009-09-23 16:00

**Version:** SIP 1.1 : Final

**CVSS:** 7.8

**Workarounds:** No Workarounds available

**Cisco ID:** [CSCsx25880](#)

**Summary:** A Denial of Service (DoS) vulnerability exists in the SIP Session Initiation Protocol (SIP) implementation in Cisco IOS Unified Border Element (UBE) software versions 1.1.0 through 1.1.1. An attacker can exploit this vulnerability to cause a Denial of Service (DoS) condition by sending a SIP INVITE message with a large number of headers. The vulnerability is caused by a buffer overflow in the SIP header processing code. The vulnerability is not exploitable via the network.

## Details

Cisco IOS SIP Session Initiation

Protocol (SIP) in Cisco Unified Border

Element (UBE) software versions 1.1.0 through 1.1.1. An attacker can exploit this vulnerability to cause a Denial of Service (DoS) condition by sending a SIP INVITE message with a large number of headers. The vulnerability is caused by a buffer overflow in the SIP header processing code. The vulnerability is not exploitable via the network.

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For more information, see the [Cisco Security Advisory](https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20090923-sip).

**References:** Cisco

IOS SIP Session Initiation Protocol (SIP) Denial of Service (DoS) Vulnerability

Cisco IOS

Unified Communications Manager

Software Advisory Bundled Publication

http://www.cisco.com/web/about/security/intelligence/Cisco\_ERP\_sep09.html

Cisco Event Response:

Semiannual Cisco IOS Software Advisory Bundled Publication

[http://www.cisco.com/web/about/security/intelligence/Cisco\\_ERP\\_sep09.html](http://www.cisco.com/web/about/security/intelligence/Cisco_ERP_sep09.html)

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IOS <config>  
router eigrp 1  
network 10.0.0.0  
network 10.1.0.0  
network 10.2.0.0  
network 10.3.0.0  
network 10.4.0.0  
network 10.5.0.0  
network 10.6.0.0  
network 10.7.0.0  
network 10.8.0.0  
network 10.9.0.0  
network 10.10.0.0  
network 10.11.0.0  
network 10.12.0.0  
network 10.13.0.0  
network 10.14.0.0  
network 10.15.0.0  
network 10.16.0.0  
network 10.17.0.0  
network 10.18.0.0  
network 10.19.0.0  
network 10.20.0.0  
network 10.21.0.0  
network 10.22.0.0  
network 10.23.0.0  
network 10.24.0.0  
network 10.25.0.0  
network 10.26.0.0  
network 10.27.0.0  
network 10.28.0.0  
network 10.29.0.0  
network 10.30.0.0  
network 10.31.0.0  
!</config>

`router eigrp 1`

## Cisco Unified Border

IOS <config>  
router eigrp 1  
network 10.0.0.0  
network 10.1.0.0  
network 10.2.0.0  
network 10.3.0.0  
network 10.4.0.0  
network 10.5.0.0  
network 10.6.0.0  
network 10.7.0.0  
network 10.8.0.0  
network 10.9.0.0  
network 10.10.0.0  
network 10.11.0.0  
network 10.12.0.0  
network 10.13.0.0  
network 10.14.0.0  
network 10.15.0.0  
network 10.16.0.0  
network 10.17.0.0  
network 10.18.0.0  
network 10.19.0.0  
network 10.20.0.0  
network 10.21.0.0  
network 10.22.0.0  
network 10.23.0.0  
network 10.24.0.0  
network 10.25.0.0  
network 10.26.0.0  
network 10.27.0.0  
network 10.28.0.0  
network 10.29.0.0  
network 10.30.0.0  
network 10.31.0.0  
!</config>

## Gateway Cisco Unified Border Element to Cisco Multiservice IP-to-IP

IOS <config>  
router eigrp 1  
network 10.0.0.0  
network 10.1.0.0  
network 10.2.0.0  
network 10.3.0.0  
network 10.4.0.0  
network 10.5.0.0  
network 10.6.0.0  
network 10.7.0.0  
network 10.8.0.0  
network 10.9.0.0  
network 10.10.0.0  
network 10.11.0.0  
network 10.12.0.0  
network 10.13.0.0  
network 10.14.0.0  
network 10.15.0.0  
network 10.16.0.0  
network 10.17.0.0  
network 10.18.0.0  
network 10.19.0.0  
network 10.20.0.0  
network 10.21.0.0  
network 10.22.0.0  
network 10.23.0.0  
network 10.24.0.0  
network 10.25.0.0  
network 10.26.0.0  
network 10.27.0.0  
network 10.28.0.0  
network 10.29.0.0  
network 10.30.0.0  
network 10.31.0.0  
!</config>

of Service (QoS) <config>

Cisco Unified Border Element <config>  
voice service voip  
allow-connections from-type to to-type  
!

```
voice service voip  
  allow-connections from-type to to-type  
  ...  
  !
```

## Cisco

IOS <config>  
router eigrp 1  
network 10.0.0.0  
network 10.1.0.0  
network 10.2.0.0  
network 10.3.0.0  
network 10.4.0.0  
network 10.5.0.0  
network 10.6.0.0  
network 10.7.0.0  
network 10.8.0.0  
network 10.9.0.0  
network 10.10.0.0  
network 10.11.0.0  
network 10.12.0.0  
network 10.13.0.0  
network 10.14.0.0  
network 10.15.0.0  
network 10.16.0.0  
network 10.17.0.0  
network 10.18.0.0  
network 10.19.0.0  
network 10.20.0.0  
network 10.21.0.0  
network 10.22.0.0  
network 10.23.0.0  
network 10.24.0.0  
network 10.25.0.0  
network 10.26.0.0  
network 10.27.0.0  
network 10.28.0.0  
network 10.29.0.0  
network 10.30.0.0  
network 10.31.0.0  
!</config>

IOS <config>  
router eigrp 1  
network 10.0.0.0  
network 10.1.0.0  
network 10.2.0.0  
network 10.3.0.0  
network 10.4.0.0  
network 10.5.0.0  
network 10.6.0.0  
network 10.7.0.0  
network 10.8.0.0  
network 10.9.0.0  
network 10.10.0.0  
network 10.11.0.0  
network 10.12.0.0  
network 10.13.0.0  
network 10.14.0.0  
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network 10.24.0.0  
network 10.25.0.0  
network 10.26.0.0  
network 10.27.0.0  
network 10.28.0.0  
network 10.29.0.0  
network 10.30.0.0  
network 10.31.0.0  
!</config>

Express <config>

```
dial-peer voice <Voice dial-peer tag> voip  
  ...  
  !
```

## Cisco

IOS <config>

```
Router# show processes | include SIP
149 Mwe 40F48254 4 1 400023108/24000 0 CCSIP_UDP_SOCKET
150 Mwe 40F48034 4 1 400023388/24000 0 CCSIP_TCP_SOCKET
```

<#root>

Router#

show processes | include SIP

```
149 Mwe 40F48254 4 1 400023108/24000 0 CCSIP_UDP_SOCKET
150 Mwe 40F48034 4 1 400023388/24000 0 CCSIP_TCP_SOCKET
```

Router# show processes | include SIP

```
149 Mwe 40F48254 4 1 400023108/24000 0 CCSIP_UDP_SOCKET
150 Mwe 40F48034 4 1 400023388/24000 0 CCSIP_TCP_SOCKET
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Router# show processes | include SIP

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150 Mwe 40F48034 4 1 400023388/24000 0 CCSIP_TCP_SOCKET
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150 Mwe 40F48034 4 1 400023388/24000 0 CCSIP_TCP_SOCKET
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150 Mwe 40F48034 4 1 400023388/24000 0 CCSIP_TCP_SOCKET
```

Router# show processes | include SIP

```
149 Mwe 40F48254 4 1 400023108/24000 0 CCSIP_UDP_SOCKET
150 Mwe 40F48034 4 1 400023388/24000 0 CCSIP_TCP_SOCKET
```

Router# show processes | include SIP

<#root>

Router#

show version

Cisco Internetwork Operating System Software  
IOS (tm) 2500 Software (C2500-IS-L), Version 12.3(26), RELEASE SOFTWARE (fc2)  
Technical Support: http://www.cisco.com/techsupport  
Copyright (c) 1986-2008 by cisco Systems, Inc.  
Compiled Mon 17-Mar-08 14:39 by dchih

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<#root>

Router#

show version

Cisco IOS Software, 1841 Software (C1841-ADVENTERPRISEK9-M), Version 12.4(20)T, RELEASE SOFTWARE (fc3)  
Technical Support: http://www.cisco.com/techsupport  
Copyright (c) 1986-2008 by Cisco Systems, Inc.  
Compiled Thu 10-Jul-08 20:25 by prod\_rel\_team

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Cisco

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Paper: Cisco IOS Reference Guideã€¬ãšçç°èªããšãã¾ã™ã€,http://www.cisco.co  
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Cisco IOS NATãšã,^ã³Cisco

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Cisco Unified Border Element

IOS... SIP... Unified Communications Manager... of Service(QoS)...

Cisco Unified Border Element

IOS... SIP... Unified Communications Manager...

<http://www.cisco.com/en/US/products/sw/voicesw/ps5640/index.html>

Cisco Unified Border Element

IOS... SIP... Unified Communications Manager... Cisco Bug ID [CSCsx25880](#)

Exposures(CVE) ID... 2870... Cisco Applied Mitigation Bulletin

### **SIP**

IOS... SIP... Unified Communications Manager... SIP... Unified Communications Manager... SIP... Unified Communications Manager...

### **SIP**

SIP... Unified Communications Manager... SIP... Unified Communications Manager...

```
sip-ua
no transport udp
no transport tcp
no transport tcp tls
```



!-- the CoPP feature.

```
class-map match-all drop-sip-class
 match access-group 100
```

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

```
policy-map drop-sip-traffic
 class drop-sip-class
 drop
```

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

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

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[http://www.cisco.com/en/US/docs/ios/12\\_3t/12\\_3t4/featur](http://www.cisco.com/en/US/docs/ios/12_3t/12_3t4/featur)  
[http://www.cisco.com/en/US/docs/ios/12\\_3t/12\\_3t4/featur](http://www.cisco.com/en/US/docs/ios/12_3t/12_3t4/featur)  
[http://www.cisco.com/en/US/docs/ios/12\\_3t/12\\_3t4/featur](http://www.cisco.com/en/US/docs/ios/12_3t/12_3t4/featur)  
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Technical Assistance

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Cisco IOS ä,½āf^āf^,lä,šă,çă®èj”i¼^ä,ăæZ²i¼%ōă®â,,è;Ĉă”ă™ā€Cisco IOS

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| <p>ãf;ã,ãfªãf¼<br/>ãfªãfªãf¼ã,¹</p>                                      | <p style="text-align: right;">ä;®æEæ</p>                                    |
| <p><b>Affected<br/>12.0-Based<br/>Releases</b></p>                       | <p style="text-align: right;"><b>First Fixed Release</b> ä;®æEæã•ã,Œã¾ã</p> |
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| <p><b>Affected<br/>12.1-Based<br/>Releases</b></p>                       | <p style="text-align: right;"><b>First Fixed Release</b> ä;®æEæã•ã,Œã¾ã</p> |
| <p>è©²½“ã™ã,¼12.1ãf™ãf¼ã,¹ã€ãªfªãfªãf¼ã,¹ã€ã^—ã«è~è¼%ã•ã,Šã¾ãªã,“ã€,</p> |   |
| <p><b>Affected<br/>12.2-Based<br/>Releases</b></p>                       | <p style="text-align: right;"><b>First Fixed Release</b> ä;®æEæã•ã,Œã¾ã</p> |
| <p>è©²½“ã™ã,¼12.2ãf™ãf¼ã,¹ã€ãªfªãfªãf¼ã,¹ã€ã^—ã«è~è¼%ã•ã,Šã¾ãªã,“ã€,</p> |   |
| <p><b>Affected<br/>12.3-Based<br/>Releases</b></p>                       | <p style="text-align: right;"><b>First Fixed Release</b> ä;®æEæã•ã,Œã¾ã</p> |
| <p>12.3</p>  | <p>è,†¼±æ€§ãªã—</p>   |
| <p>12.3B</p>   | <p>è,†¼±æ€§ãªã—</p>   |



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| 12.3BC  | è,,†å¼±æ€§ãªã— |
| 12.3BW  | è,,†å¼±æ€§ãªã— |
| 12.3EU  | è,,†å¼±æ€§ãªã— |
| 12.3JA  | è,,†å¼±æ€§ãªã— |
| 12.3JEA | è,,†å¼±æ€§ãªã— |
| 12.3JEB | è,,†å¼±æ€§ãªã— |
| 12.3JEC | è,,†å¼±æ€§ãªã— |
| 12.3JK  | è,,†å¼±æ€§ãªã— |
| 12.3JL  | è,,†å¼±æ€§ãªã— |
| 12.3JX  | è,,†å¼±æ€§ãªã— |
| 12.3T   | è,,†å¼±æ€§ãªã— |
| 12.3TPC | è,,†å¼±æ€§ãªã— |
| 12.3VA  | è,,†å¼±æ€§ãªã— |
| 12.3XA  | è,,†å¼±æ€§ãªã— |
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|--------|-----------------|
| 12.3XC | è,,†å¼±æ€§ãªãª— |
| 12.3XD | è,,†å¼±æ€§ãªãª— |
| 12.3XE | è,,†å¼±æ€§ãªãª— |
| 12.3XF | è,,†å¼±æ€§ãªãª— |
| 12.3XG | è,,†å¼±æ€§ãªãª— |
| 12.3XI | è,,†å¼±æ€§ãªãª— |
| 12.3XJ | è,,†å¼±æ€§ãªãª— |
| 12.3XK | è,,†å¼±æ€§ãªãª— |
| 12.3XL | è,,†å¼±æ€§ãªãª— |
| 12.3XQ | è,,†å¼±æ€§ãªãª— |
| 12.3XR | è,,†å¼±æ€§ãªãª— |
| 12.3XS | è,,†å¼±æ€§ãªãª— |
| 12.3XU | è,,†å¼±æ€§ãªãª— |
| 12.3XW | è,,†å¼±æ€§ãªãª— |
| 12.3XX | è,,†å¼±æ€§ãªãª— |

|        |   |
|--------|---|
| 12.3XY | è,,†à¼±æ€§ãªã—  |
| 12.3XZ | è,,†à¼±æ€§ãªã—  |
| 12.3YA | è,,†à¼±æ€§ãªã—  |
| 12.3YD | è,,†à¼±æ€§ãªã—  |
| 12.3YF | è,,†à¼±æ€§ãªã—  |
| 12.3YG | è,,†à¼±æ€§ãªã—  |
| 12.3YH | è,,†à¼±æ€§ãªã—  |
| 12.3YI | è,,†à¼±æ€§ãªã—  |
| 12.3YJ | è,,†à¼±æ€§ãªã—  |
| 12.3YK | 12.3(11)YK3ã, ^ã, Šã%ãªã®ãªãªãªãªã, 1ãª«ãª—è,,†à¼±æ€§ãªãªãª,ã,Šã€12.3(11)Y<br><a href="#">2.4TãªŠæœ€ã^ãªª«ãª®æ£ãª•ã,Çãªªãª,ãªªªãªª™</a> |
| 12.3YM | è,,†à¼±æ€§ãªã—  |
| 12.3YQ | è,,†à¼±æ€§ãªã—  |
| 12.3YS | è,,†à¼±æ€§ãªãª,Š(æœ€ã^ãªª®ãª®æ£ãªª— <a href="#">12.4T</a> )<br>12.3(11)YS1ãª»ãª%  |

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| 12.3YT                                      | è,,†ā¼±æ€šā,ā,š(æœ€ā^ ā» @ăž®æfā - 12.4T)           |
| 12.3YU                                      | è,,†ā¼±æ€šā ā -                                     |
| 12.3YX                                      | è,,†ā¼±æ€šā ā -                                     |
| 12.3YZ                                      | è,,†ā¼±æ€šā ā -                                     |
| 12.3ZA                                      | è,,†ā¼±æ€šā ā -                                     |
| <b>Affected<br/>12.4-Based<br/>Releases</b> | <b>First Fixed Release</b> ¼ăž®æfā •ā,œā Ÿæ         |
| 12.4  | è,,†ā¼±æ€šā ā -                                     |
| 12.4GC                                      | 12.4(24)GC1   |
| 12.4JA                                      | è,,†ā¼±æ€šā ā -                                     |
| 12.4JDA                                     | è,,†ā¼±æ€šā ā -                                     |
| 12.4JDC                                     | è,,†ā¼±æ€šā ā -                                     |

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|---------|--|
| 12.4JDD | è,,†â¼±æ€§ãªã—   |
| 12.4JK  | è,,†â¼±æ€§ãªã—   |
| 12.4JL  | è,,†â¼±æ€§ãªã—   |
| 12.4JMA | è,,†â¼±æ€§ãªã—   |
| 12.4JMB | è,,†â¼±æ€§ãªã—   |
| 12.4JX  | è,,†â¼±æ€§ãªã—   |
| 12.4MD  | è,,†â¼±æ€§ãªã—   |
| 12.4MDA | è,,†â¼±æ€§ãªã—   |
| 12.4MR  | 12.4(19)MR3  |
| 12.4SW  | è,,†â¼±æ€§ãªã—   |
| 12.4T   | 12.4(24)T1<br>12.4(15)T10<br>12.4(20)T3<br>12.4(22)T2  |
| 12.4XA  | è,,†â¼±æ€§ãªã,Š(æœĚâ^ªª®ä¿®æĚã <a href="#">12.4T</a> ) |

|        |   |
|--------|---|
|        |   |
| 12.4XB | è,,†â¼±æ€§ã,ã,Š(æœ€â^ã®ä¿®æfã <a href="#">12.4T</a> ) |
| 12.4XC | è,,†â¼±æ€§ã,ã,Š(æœ€â^ã®ä¿®æfã <a href="#">12.4T</a> ) |
| 12.4XD | è,,†â¼±æ€§ã,ã,Š(æœ€â^ã®ä¿®æfã <a href="#">12.4T</a> ) |
| 12.4XE | è,,†â¼±æ€§ã,ã,Š(æœ€â^ã®ä¿®æfã <a href="#">12.4T</a> ) |
| 12.4XF | è,,†â¼±æ€§ã <sup>a</sup> ã—                           |
| 12.4XG | è,,†â¼±æ€§ã <sup>a</sup> ã—                           |
| 12.4XJ | è,,†â¼±æ€§ã,ã,Š(æœ€â^ã®ä¿®æfã <a href="#">12.4T</a> ) |



|        |  |
|--------|--|
|        | ã€ã,»ã,¯ã,ãfšãf³ã®æ%o«é tã«ã¼"ã£ã ã€ã,µãfãf¼ãf^çµ,,ç¹"ã«ãŠã• |
| 12.4XW | è,,†ã¼±æ€§ã,ã,Š(æœ€ã^ã®ä¿®æ£ã 12.4T)                         |
| 12.4XY | è,,†ã¼±æ€§ã,ã,Š(æœ€ã^ã®ä¿®æ£ã 12.4T)                         |
| 12.4XZ | è,,†ã¼±æ€§ã,ã,Š(æœ€ã^ã®ä¿®æ£ã 12.4T)                         |
| 12.4YA | è,,†ã¼±æ€§ã,ã,Š(æœ€ã^ã®ä¿®æ£ã 12.4T)                         |
| 12.4YB | 12.4(22)YB1  |
| 12.4YD | è,,†ã¼±æ€§ãªã—   |
| 12.4YE | è,,†ã¼±æ€§ãªã—   |



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## 翻訳について

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