

# Cisco NX-OS 3.12.5.1(3) SDA, SDA, SDA® IPv6 PIM-6 DoS Vulnerability



**Severity:** High  
**Cisco Bug ID:** [CSCvr91853](#) [CSCvr97684](#)  
**CVSS Score:** 7.5  
**Workarounds:** No workarounds available  
**Published:** 2020-08-26 16:00  
**Updated:** 2020-08-26 20:42  
**Version:** 3.12.5.1(3) SDA  
**Product:** Cisco NX-OS PIM-6

**Summary:** Cisco NX-OS 3.12.5.1(3) SDA, SDA, SDA® IPv6 PIM-6 DoS vulnerability. An attacker can cause a Denial of Service (DoS) by sending a large number of IPv6 PIM-6 messages to the affected device.

**Impact:** Denial of Service (DoS). An attacker can cause a Denial of Service (DoS) by sending a large number of IPv6 PIM-6 messages to the affected device.

**Workaround:** No workarounds are available for this vulnerability.

**References:** [Cisco Security Advisory: Cisco NX-OS PIM-6 DoS Vulnerability](#)

**Additional Information:** This vulnerability affects Cisco NX-OS 3.12.5.1(3) SDA, SDA, SDA® IPv6 PIM-6. The vulnerability is caused by a buffer overflow in the PIM-6 protocol.

**Conclusion:** This is a high severity vulnerability that can cause a Denial of Service (DoS) on Cisco NX-OS 3.12.5.1(3) SDA, SDA, SDA® IPv6 PIM-6. It is recommended to apply the patches provided by Cisco to mitigate this vulnerability.

**Disclaimer:** This document is for informational purposes only. Cisco is not responsible for any damage or loss resulting from the use of this information.

af af3af%af«a@a,€ef` a Sã™ã€ã"ã@a,ã«ã-ã€7  
à»¶ã®è,,tã¼±æ€Sã«é-çã™ã, < 7 à»¶ã®ã,ã,1ã,³ã,»ã,ãfãfãfãfã,£  
ã,çãf%ãfã,ã,¶ã,¶ãfãã€ã«ã¾ã,€ã|ã,,ã¾ã™ã€ã,çãf%ãfã,ã,¶ã,¶ãfãã®ã€ã...`ã  
[Event Response: August 2020 Cisco FXOS and NX-OS Software Security Advisory Bundled Publication](#)ã€ã,ã,ç...Sã—ã|ãããããã,ã€,

## è©²ã¼“è£½ã”

è,,tã¼±æ€Sã®ã,ã,è£½ã”

ã“ã®è,,tã¼±æ€Sã®ã½±éÿã,ã—ãã,ãã®ã-ã€æ-ãã®,ã,1ã,³è£½ã”ãSè,,tã¼±æ€  
Cisco NX-OS ã,½ãfãfã,|ã,Sã,çãfãfãfã¼ã,1ã,ã®ÿè€ã—ã|ãSã,Sã€ããã feature  
pim6 ã,ãfããfãf%ã€è`ã®ãã,ã,€ã|ã,,ã,ã`ãã^ãSã™ã€,

- Nexus 3000 ã,ãfããf¼ã,°ã,1ã,¶ãfãfãf¼^CSCvr91853i¼%
- Nexus 7000 ã,ãfããf¼ã,°ã,1ã,¶ãfãfãf¼^CSCvr97684i¼%
- ã,1ã,çãfãf%ã,çãfãf³ NX-OS ãfçãf¼ãf%ã® Nexus 9000 ã,ãfããf¼ã,°ã,1ã,¶ãfãfãf¼^CSCvr91853i¼%

è,,tã¼±æ€Sã€ã~ã€`ã™ã, < Cisco  
ã,½ãfãfã,|ã,Sã,çãfãfãf¼ã,1ã«ãã,ãã|ã-ã€ãã“ã®ã,çãf%ãfã,ã,¶ã,¶ãfãã®ã€ã€ã

## è,,tã¼±æ€Sã,ã«ã,“ãSã,,ããã,,ã“ã”ã€çç`èããã,€ãÿè£½ã”

ã“ã®ã,çãf%ãfã,ã,¶ã,¶ãfãã®è,,tã¼±æ€Sã®ã,ã,è£½ã”ã,»ã,ã,ãfããfãã«è`è¼%ããã

ã,ã,1ã,³ã-ã€ãã“ã®è,,tã¼±æ€Sã€ã»ã,ãã®,ã,1ã,³è£½ã”ãã«ã-ã½±éÿã,ã,ããã^ã

- Firepower 1000 ã,ãfããf¼ã,°
- Firepower 2100 ã,ãfããf¼ã,°
- Firepower 4100 ã,ãfããf¼ã,°
- Firepower 9300 ã,»ã,ãfããfãfã,£ã,çãf—ãfãã,ã,çãfã,1
- MDS 9000 ã,ãfããf¼ã,°ãfããfããfããfãã,ã,1ã,¶ãfãfãf
- VMware vSphere ã“ã” Nexus 1000 Virtual Edge
- Nexus 1000V Switch for Microsoft Hyper-V
- Nexus 1000V Switch for VMware vSphere
- Nexus 5500 ãf—ãfããfãfãã,ã,ã,¶ãfãfãf
- Nexus 5600 ãf—ãfããfãfãã,ã,ã,¶ãfãfãf
- Nexus 6000 ã,ãfããf¼ã,°ã,1ã,¶ãfãfãf
- Nexus 9000 ã,ãfããf¼ã,°ãfã,ãfããfãfã,ã,1ã,¶ãfãfãf¼ã,çãf—ãfãã,±ãf¼ã,ãfããfãã,»ãfããfããfãã,ã,ããfããfããã,ãfããfããã,ãfããfããã,ãfããfããã^ACI¼%ããfããf¼ããf%ã¼%
- UCS 6200 ã,ãfããf¼ã,°ãfã,ãfããfãfãã,ã,ã,ãfãã,çãf¼ã,³ãfãã,ãf



ç,,;å,,ÿã,çãffãf—ã,°ãf—ãf¼ãf%ãã®ã³æ±jè£½ã”ã Sã,ã,ã”ã”ã,è”¼æ~žã—ã|ã,,ãÿã  
URL ã,ã”ã”ç””æ,,ããããããããã,,ã€,

### Cisco NX-OS ã,½ãf•ãf^ã,ã,šã,ç

ã Sã@çæš~ã Cisco NX-OS

ã,½ãf•ãf^ã,ã,šã,çã®è,,tã¼±æ€šã«ã,^ã,ã¼µã®³ã®ã”èf½æ€šã,ã^æ-ã Sãããã,ã,^ãtã€.

[Cisco Software Checker](#)

ã,æãã¼ãã—ãã|ã,,ã¼ãã™ã€ã,ã”ã®ãf,,ãf¼ãf«ã«ã,^ã,šã€ç%ã¼ã®šã®  
Cisco NX-OS ã,½ãf•ãf^ã,ã,šã,çãfããfã¼ã,ã”ã«è²ã½”ã™ã,ã,ã,ã,ã,³ã,»ã,ãfããfãfã,£  
ã,çãf%ããfã,ã,ã,ãfãã€ã Sã,^ã³ã,,ã,çãf%ããfã,ã,ã,ãfãã Sè^æ~žã•ã,Çã|ã,,ã,è,,tã¼±  
Fixedã€i¼%ã,ç%ã¼ã®šã Sãããã¼ãã™ã€ã,ã¼ããÿè²ã½”ã™ã,ãã^ãããããã®ãfããfã  
First Fixedã€i¼%ã,ç%ã¼ã®šã Sãããã¼ãã™ã€,

ã Sã@çæš~ã”ã Cisco Software Checker

[ã,ã½ç”ã—ã|æ-jã®æ-¹æ³•ã Sã,çãf%ããfã,ã,ã,ãfãã,ææœç’çã Sãããã¼ãã™ã€.](#)

- ã,½ãf•ãf^ã,ã,šã,çã€ãf—ãf©ãffãf^ãf•ã,©ãf¼ãfã€ãã Sã,^ã³ 1  
ãã»ã¼ã,šã®ãfããfã¼ã,ã,é,æšžã™ã,ç
- ç%ã¼ã®šã®ãfããfã¼ã,ã”ã®ãfã,ãf^ã,ãã«ã,€ .txt  
ãf•ã,ã,ãf«ã,ã,çãffãf—ãfãf¼ãf%ãã™ã,ç
- **show version ã,ãfžãf³ãf%ãã®ã±°ãš>ã,ã...ãšãã™ã,ç**

ææœç’çã,è—ãšãã—ãÿã¼Çã Sã€ãã™ãã¹ã|ã®ã,ã,ã,ã,»ã,ãfããfãfã,£

ã,çãf%ããfã,ã,ã,ãfãã¼ããÿã™ 1

ãã»ã¼ã,šã®ç%ã¼ã®šã®ã,çãf%ããfã,ã,ã,ãfãã Çã«ã¼ã,Çã,ã,^ãtã«ææœç’çã,ã,«ã,ã,ã,

ã¼ããÿã€æ-jã®ãfã,ã,©ãf¼ãfã,ã,ã½ç”ã—ãã|ã€Cisco NX-OS

ã,½ãf•ãf^ã,ã,šã,çã”ãf—ãf©ãffãf^ãf•ã,©ãf¼ãfã,é,æšžã€ã Sã,^ã³ãfããfã¼ã,ã,ã...ãšãã™ã

Nexus 3000 ã,ãfããf¼ã,°ã,ã,ããffãfã® 7.0(3)I7(5)ã€ACIãfçãf¼ããf%ãã® Cisco NX-OS

ã,½ãf•ãf^ã,ã,šã,çã® 14.0(1h)i¼%ãã€ã,ã,ã,³ã,»ã,ãfããfãfã,£

ã,çãf%ããfã,ã,ã,ãfãã®ã³æ±jã”ããã,ãfããfã¼ã,ã”ã Sã,ã,ããã,ã^æ-ã™ã,ãã”ã

Cisco NX-OS ã,½ãf•ãf^ã,ã,šã,ç
MDS 9000 ã,ãfããf¼ã,°ãfžãf«ãfãf-ã,ããfã,ã,ã,ããffãf

Enter Version	Check
---------------	-------

ãfããfã,©ãf«ãf^ã Sã”ã Cisco Software Checkerã®çµæžœã«ã”ã Security Impact

[Ratingi¼^SIRi¼%ã Çã€Ç€±ãã Sããã¼ããÿã”ã Çã€~ã€ãã®è,,tã¼±æ€šããã”ã Çãã»ã](#)

SIR è,,tã¼±æ€šã®çµæžœã,ãã«ãã”ã Cisco Software Checker

ã, 'ä½ç"'' ä—ä | ä€æœœç'çä, 'ä, «ä, 'ä, çäffzä, ðä, °ä™ä, «ä ä ä ä ä ä  
[ä½±éÿçä®è©•ä¾¼i¼^Impact Ratingi¼%o] äf%oäffäffäff—äf€ä, läf³äffä, läf^ä®  
[ä, é-“i¼^Mediumi¼%o] äf ä, Säffä, äfoeäffä, ä, 'ä, 'ä, ääfä ä—ä¾¼ä™ä€,

### ä ä ä ä ä»-ä ä ä ä ä, ½ä f¼ä, '1

Cisco Nexus ä, 'ä, ðäffäff ä ä «æœœé© ä ä Cisco NX-OS

ä, ½ä f•ä f^ä, | ä, sä, çä fä fä fä f¼ä, 'ä ä æ±°ä ®sä «és>ä—ä | ä, µä f ä f¼ä f^ä Çä ç...è | ä ä ä ä 'ä ^ä  
ä, çä f%o ä f ä, ðä, ¶ä f ä sä, ^ä, Šä -°ä—ä „ä f ä fä f¼ä, 'ä Çä æZ'' ä ¥'' ä ä, Çä | ä „ä, <ä 'ä ^ä ^ä

[Cisco MDS ä, ä f ä f¼ä, ° ä, 'ä, ðäffäff](#)

[Vmware ä, 'ä, ðäffäff ä ä 'ä Cisco Nexus 1000V](#)

[Cisco Nexus 3000 Series Switches](#)

[Cisco Nexus 5500 ä f—ä f©ä f fä f^ä f•ä, ©ä f¼ä ä, 'ä, ðäffäff](#)

[Cisco Nexus 5600 ä f—ä f©ä f fä f^ä f•ä, ©ä f¼ä ä, 'ä, ðäffäff](#)

[Cisco Nexus 6000 Series Switches](#)

[Cisco Nexus 7000 Series Switches](#)

[Cisco Nexus 9000 Series Switches](#)

[ACI ä f ç ä f¼ä f%o ä ä® Cisco Nexus 9000 ä, ä f ä f¼ä, ° ä, 'ä, ðäffäff](#)

Cisco UCS

ä, ½ä f•ä f^ä, lä, šä, çä «æœœé© ä ä ä f ä fä fä f¼ä, 'ä, ççèè ä ä ä ä, «ä «ä ä ä ä f f ä f ä, ðä, 'ä ä ä ä f ä f

### ä, ä æ f ä ^ ç " " ä ° < ä ¾ < ä " ä ... - ä ¼ ç ™ ä è i "

Cisco Product Security Incident Response

Teami¼^PSIRTi¼%o ä ä æœœ-ä, çä f%o ä f ä, ðä, ¶ä f ä «è ~ è¼%o ä ä, Çä | ä „ä, <è, †ä ±æ€sä ä

### ä † ä ... ,

æœœ-è, †ä ±æ€sä ä ä ä ä, ä, 'ä, ä t...é f ä sä ä ä, »ä, ä f ä fä fä fä f, ä f fä, 'ä f ä ä «ä, ^ä ä f ä | ç ™ ä è | ä ä, Çä ä ä ä—ä ä ä ä, ä ç ä æ f ä, ä ç ä, ½ä f •ä

### URL

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-nxos-pim-memleak-dos-tC8eP7uw>

### æ''è, ä ±æ'

ä f ä f¼ä, ä f s ä f³	è ä æ Z	ä, »ä, ä, ä f s ä
1.1	ä, ½ä f•ä f^ä, lä, šä, çä f ä, Säffä, «ä f¼ä ä ä ä f ä fä fä, ä, 'ä ç ä æ f ä, ä ç ä æ f ä, ^ä ç ä, ½ä f •ä	



## 翻訳について

シスコは世界中のユーザにそれぞれの言語でサポート コンテンツを提供するために、機械と人による翻訳を組み合わせて、本ドキュメントを翻訳しています。ただし、最高度の機械翻訳であっても、専門家による翻訳のような正確性は確保されません。シスコは、これら翻訳の正確性について法的責任を負いません。原典である英語版（リンクからアクセス可能）もあわせて参照することを推奨します。