



CVE-2021-1446

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CVE-2021-1446 - advisory for cisco-sa-alg-dos-hbBS7SZE

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:31/AV:N/AC:L/PR:N/UI:N/S:C/C:N/I:N/A:H



Certain versions of **ios XE** from **Cisco** contain the following vulnerability:

A vulnerability in the DNS application layer gateway (ALG) functionality used by Network Address Translation (NAT) in Cisco IOS XE Software could allow an unauthenticated, remote attacker to cause an affected device to reload. The vulnerability is due to a logic error that occurs when an affected device inspects certain DNS packets. An attacker

could exploit this vulnerability by sending crafted DNS packets through an affected device that is performing NAT for DNS packets. A successful exploit could allow an attacker to cause the device to reload, resulting in a denial of service (DoS) condition on an affected device. The vulnerability can be exploited only by traffic that is sent through an affected device via IPv4 packets. The vulnerability cannot be exploited via IPv6 traffic.

CVE-2021-1446 has been assigned by [psirt@cisco.com](#) to track the vulnerability - currently rated as **HIGH** severity.

The Cisco Product Security Incident Response Team (PSIRT) is not aware of any public announcements or malicious use of the vulnerability that is described in this advisory.

Affected Vendor/Software: [Cisco](#) - **Cisco IOS XE Software** version **n/a**

CVSS3 Score: **7.5 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	NONE	NONE	HIGH

CVSS2 Score: **7.1 - HIGH**

Access Vector	Access Complexity	Authentication
NETWORK	MEDIUM	NONE

Confidentiality Impact	Integrity Impact	Availability Impact				
NONE	NONE	COMPLETE				
CVE References						
Description	Tags	Link				
Cisco IOS XE Software DNS NAT Protocol Application Layer Gateway Denial of Service Vulnerability	tools.cisco.com text/html	CISCO 20210324 Cisco IOS XE Software DNS NAT Protocol Application Layer Gateway Denial of Service Vulnerability				
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Related QID Numbers						
316902 Cisco IOS XE Software DNS NAT Protocol Application Layer Gateway Denial of Service Vulnerability(cisco-sa-alg-dos-hbBS7SZE)						
Known Affected Configurations (CPE V2.3)						
Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Cisco	ios Xe	16.1.1	All	All	All
Operating System	Cisco	ios Xe	16.1.2	All	All	All
Operating System	Cisco	ios Xe	16.1.3	All	All	All
Operating System	Cisco	ios Xe	16.10.1	All	All	All
Operating System	Cisco	ios Xe	16.10.1a	All	All	All
Operating System	Cisco	ios Xe	16.10.1b	All	All	All
Operating System	Cisco	ios Xe	16.10.1c	All	All	All
Operating System	Cisco	ios Xe	16.10.1d	All	All	All
Operating System	Cisco	ios Xe	16.10.1e	All	All	All
Operating System	Cisco	ios Xe	16.10.1f	All	All	All
Operating System	Cisco	ios Xe	16.10.1g	All	All	All
Operating System	Cisco	ios Xe	16.10.1s	All	All	All
Operating System	Cisco	ios Xe	16.10.2	All	All	All

System						
Operating System	Cisco	ios Xe	16.10.3	All	All	All
Operating System	Cisco	ios Xe	16.11.1	All	All	All
Operating System	Cisco	ios Xe	16.11.1a	All	All	All
Operating System	Cisco	ios Xe	16.11.1b	All	All	All
Operating System	Cisco	ios Xe	16.11.1c	All	All	All
Operating System	Cisco	ios Xe	16.11.1s	All	All	All
Operating System	Cisco	ios Xe	16.11.2	All	All	All
Operating System	Cisco	ios Xe	16.12.1	All	All	All
Operating System	Cisco	ios Xe	16.12.1a	All	All	All
Operating System	Cisco	ios Xe	16.12.1c	All	All	All
Operating System	Cisco	ios Xe	16.12.1s	All	All	All
Operating System	Cisco	ios Xe	16.12.1t	All	All	All
Operating System	Cisco	ios Xe	16.12.1w	All	All	All
Operating System	Cisco	ios Xe	16.12.1x	All	All	All
Operating System	Cisco	ios Xe	16.12.1y	All	All	All
Operating System	Cisco	ios Xe	16.12.1z	All	All	All
Operating System	Cisco	ios Xe	16.12.1z1	All	All	All
Operating System	Cisco	ios Xe	16.12.1za	All	All	All
Operating System	Cisco	ios Xe	16.12.2	All	All	All
Operating System	Cisco	ios Xe	16.12.2a	All	All	All
Operating System	Cisco	ios Xe	16.12.2s	All	All	All
Operating System	Cisco	ios Xe	16.12.2t	All	All	All
Operating System	Cisco	ios Xe	16.12.3	All	All	All

System						
Operating System	Cisco	ios Xe	16.12.3a	All	All	All
Operating System	Cisco	ios Xe	16.12.3s	All	All	All
Operating System	Cisco	ios Xe	16.12.4	All	All	All
Operating System	Cisco	ios Xe	16.12.4a	All	All	All
Operating System	Cisco	ios Xe	16.2.1	All	All	All
Operating System	Cisco	ios Xe	16.2.2	All	All	All
Operating System	Cisco	ios Xe	16.3.1	All	All	All
Operating System	Cisco	ios Xe	16.3.10	All	All	All
Operating System	Cisco	ios Xe	16.3.11	All	All	All
Operating System	Cisco	ios Xe	16.3.1a	All	All	All
Operating System	Cisco	ios Xe	16.3.2	All	All	All
Operating System	Cisco	ios Xe	16.3.3	All	All	All
Operating System	Cisco	ios Xe	16.3.4	All	All	All
Operating System	Cisco	ios Xe	16.3.5	All	All	All
Operating System	Cisco	ios Xe	16.3.5b	All	All	All
Operating System	Cisco	ios Xe	16.3.6	All	All	All
Operating System	Cisco	ios Xe	16.3.7	All	All	All
Operating System	Cisco	ios Xe	16.3.8	All	All	All
Operating System	Cisco	ios Xe	16.3.9	All	All	All
Operating System	Cisco	ios Xe	16.4.1	All	All	All
Operating System	Cisco	ios Xe	16.4.2	All	All	All
Operating System	Cisco	ios Xe	16.4.3	All	All	All
Operating System	Cisco	ios Xe	16.5.1	All	All	All

System						
Operating System	Cisco	los Xe	16.5.1a	All	All	All
Operating System	Cisco	los Xe	16.5.1b	All	All	All
Operating System	Cisco	los Xe	16.5.2	All	All	All
Operating System	Cisco	los Xe	16.5.3	All	All	All
Operating System	Cisco	los Xe	16.6.1	All	All	All
Operating System	Cisco	los Xe	16.6.2	All	All	All
Operating System	Cisco	los Xe	16.6.3	All	All	All
Operating System	Cisco	los Xe	16.6.4	All	All	All
Operating System	Cisco	los Xe	16.6.4a	All	All	All
Operating System	Cisco	los Xe	16.6.4s	All	All	All
Operating System	Cisco	los Xe	16.6.5	All	All	All
Operating System	Cisco	los Xe	16.6.5a	All	All	All
Operating System	Cisco	los Xe	16.6.5b	All	All	All
Operating System	Cisco	los Xe	16.6.6	All	All	All
Operating System	Cisco	los Xe	16.6.7	All	All	All
Operating System	Cisco	los Xe	16.6.7a	All	All	All
Operating System	Cisco	los Xe	16.6.8	All	All	All
Operating System	Cisco	los Xe	16.7.1	All	All	All
Operating System	Cisco	los Xe	16.7.1a	All	All	All
Operating System	Cisco	los Xe	16.7.1b	All	All	All
Operating System	Cisco	los Xe	16.7.2	All	All	All
Operating System	Cisco	los Xe	16.7.3	All	All	All
Operating	Cisco	los Xe	16.7.4	All	All	All

System						
Operating System	Cisco	los Xe	16.8.1	All	All	All
Operating System	Cisco	los Xe	16.8.1a	All	All	All
Operating System	Cisco	los Xe	16.8.1b	All	All	All
Operating System	Cisco	los Xe	16.8.1c	All	All	All
Operating System	Cisco	los Xe	16.8.1d	All	All	All
Operating System	Cisco	los Xe	16.8.1e	All	All	All
Operating System	Cisco	los Xe	16.8.1s	All	All	All
Operating System	Cisco	los Xe	16.8.2	All	All	All
Operating System	Cisco	los Xe	16.8.3	All	All	All
Operating System	Cisco	los Xe	16.9.1	All	All	All
Operating System	Cisco	los Xe	16.9.1a	All	All	All
Operating System	Cisco	los Xe	16.9.1b	All	All	All
Operating System	Cisco	los Xe	16.9.1c	All	All	All
Operating System	Cisco	los Xe	16.9.1d	All	All	All
Operating System	Cisco	los Xe	16.9.1s	All	All	All
Operating System	Cisco	los Xe	16.9.2	All	All	All
Operating System	Cisco	los Xe	16.9.2a	All	All	All
Operating System	Cisco	los Xe	16.9.2s	All	All	All
Operating System	Cisco	los Xe	16.9.3	All	All	All
Operating System	Cisco	los Xe	16.9.3a	All	All	All
Operating System	Cisco	los Xe	16.9.3h	All	All	All
Operating System	Cisco	los Xe	16.9.3s	All	All	All
Operating	Cisco	los Xe	16.9.4	All	All	All

System						
Operating System	Cisco	los Xe	16.9.4c	All	All	All
Operating System	Cisco	los Xe	16.9.5	All	All	All
Operating System	Cisco	los Xe	16.9.5f	All	All	All
Operating System	Cisco	los Xe	16.9.6	All	All	All
Operating System	Cisco	los Xe	17.1.1	All	All	All
Operating System	Cisco	los Xe	17.1.1a	All	All	All
Operating System	Cisco	los Xe	17.1.1s	All	All	All
Operating System	Cisco	los Xe	17.1.1t	All	All	All
Operating System	Cisco	los Xe	17.1.2	All	All	All
Operating System	Cisco	los Xe	17.2.1	All	All	All
Operating System	Cisco	los Xe	17.2.1a	All	All	All
Operating System	Cisco	los Xe	17.2.1r	All	All	All
Operating System	Cisco	los Xe	17.2.1v	All	All	All
Operating System	Cisco	los Xe	17.2.2	All	All	All
Operating System	Cisco	los Xe	17.2.3	All	All	All
Operating System	Cisco	los Xe	17.3.1	All	All	All
Operating System	Cisco	los Xe	17.3.1a	All	All	All
Operating System	Cisco	los Xe	17.3.1w	All	All	All
Operating System	Cisco	los Xe	3.10.0s	All	All	All
Operating System	Cisco	los Xe	3.10.10s	All	All	All
Operating System	Cisco	los Xe	3.10.1s	All	All	All
Operating System	Cisco	los Xe	3.10.1xbs	All	All	All
Operating	Cisco	los Xe	3.10.1xcs	All	All	All

System						
Operating System	Cisco	ios Xe	3.10.2as	All	All	All
Operating System	Cisco	ios Xe	3.10.2s	All	All	All
Operating System	Cisco	ios Xe	3.10.2ts	All	All	All
Operating System	Cisco	ios Xe	3.10.3s	All	All	All
Operating System	Cisco	ios Xe	3.10.4s	All	All	All
Operating System	Cisco	ios Xe	3.10.5s	All	All	All
Operating System	Cisco	ios Xe	3.10.6s	All	All	All
Operating System	Cisco	ios Xe	3.10.7s	All	All	All
Operating System	Cisco	ios Xe	3.10.8as	All	All	All
Operating System	Cisco	ios Xe	3.10.8s	All	All	All
Operating System	Cisco	ios Xe	3.10.9s	All	All	All
Operating System	Cisco	ios Xe	3.11.0s	All	All	All
Operating System	Cisco	ios Xe	3.11.1s	All	All	All
Operating System	Cisco	ios Xe	3.11.2s	All	All	All
Operating System	Cisco	ios Xe	3.11.3s	All	All	All
Operating System	Cisco	ios Xe	3.11.4s	All	All	All
Operating System	Cisco	ios Xe	3.12.0as	All	All	All
Operating System	Cisco	ios Xe	3.12.0s	All	All	All
Operating System	Cisco	ios Xe	3.12.1s	All	All	All
Operating System	Cisco	ios Xe	3.12.2s	All	All	All
Operating System	Cisco	ios Xe	3.12.3s	All	All	All
Operating System	Cisco	ios Xe	3.12.4s	All	All	All
Operating	Cisco	ios Xe	3.13.0as	All	All	All

Operating System	Cisco	ios Xe	3.13.0s	All	All	All
Operating System	Cisco	ios Xe	3.13.0s	All	All	All
Operating System	Cisco	ios Xe	3.13.10s	All	All	All
Operating System	Cisco	ios Xe	3.13.1s	All	All	All
Operating System	Cisco	ios Xe	3.13.2as	All	All	All
Operating System	Cisco	ios Xe	3.13.2s	All	All	All
Operating System	Cisco	ios Xe	3.13.3s	All	All	All
Operating System	Cisco	ios Xe	3.13.4s	All	All	All
Operating System	Cisco	ios Xe	3.13.5as	All	All	All
Operating System	Cisco	ios Xe	3.13.5s	All	All	All
Operating System	Cisco	ios Xe	3.13.6as	All	All	All
Operating System	Cisco	ios Xe	3.13.6bs	All	All	All
Operating System	Cisco	ios Xe	3.13.6s	All	All	All
Operating System	Cisco	ios Xe	3.13.7as	All	All	All
Operating System	Cisco	ios Xe	3.13.7s	All	All	All
Operating System	Cisco	ios Xe	3.13.8s	All	All	All
Operating System	Cisco	ios Xe	3.13.9s	All	All	All
Operating System	Cisco	ios Xe	3.14.0s	All	All	All
Operating System	Cisco	ios Xe	3.14.1s	All	All	All
Operating System	Cisco	ios Xe	3.14.2s	All	All	All
Operating System	Cisco	ios Xe	3.14.3s	All	All	All
Operating System	Cisco	ios Xe	3.14.4s	All	All	All
Operating System	Cisco	ios Xe	3.15.0s	All	All	All
Operating System	Cisco	ios Xe	3.15.1cs	All	All	All

Operating System	Cisco	ios Xe	3.15.1cs	All	All	All
Operating System	Cisco	ios Xe	3.15.1s	All	All	All
Operating System	Cisco	ios Xe	3.15.1xbs	All	All	All
Operating System	Cisco	ios Xe	3.15.2s	All	All	All
Operating System	Cisco	ios Xe	3.15.2xbs	All	All	All
Operating System	Cisco	ios Xe	3.15.3s	All	All	All
Operating System	Cisco	ios Xe	3.15.4s	All	All	All
Operating System	Cisco	ios Xe	3.16.0as	All	All	All
Operating System	Cisco	ios Xe	3.16.0bs	All	All	All
Operating System	Cisco	ios Xe	3.16.0cs	All	All	All
Operating System	Cisco	ios Xe	3.16.0s	All	All	All
Operating System	Cisco	ios Xe	3.16.10as	All	All	All
Operating System	Cisco	ios Xe	3.16.10s	All	All	All
Operating System	Cisco	ios Xe	3.16.1as	All	All	All
Operating System	Cisco	ios Xe	3.16.1s	All	All	All
Operating System	Cisco	ios Xe	3.16.2as	All	All	All
Operating System	Cisco	ios Xe	3.16.2bs	All	All	All
Operating System	Cisco	ios Xe	3.16.2s	All	All	All
Operating System	Cisco	ios Xe	3.16.3as	All	All	All
Operating System	Cisco	ios Xe	3.16.3s	All	All	All
Operating System	Cisco	ios Xe	3.16.4as	All	All	All
Operating System	Cisco	ios Xe	3.16.4bs	All	All	All
Operating System	Cisco	ios Xe	3.16.4cs	All	All	All
Operating System	Cisco	ios Xe	3.16.4ds	All	All	All

Operating System	Cisco	ios xe	3.16.4ds	All	All	All
Operating System	Cisco	ios Xe	3.16.4es	All	All	All
Operating System	Cisco	ios Xe	3.16.4gs	All	All	All
Operating System	Cisco	ios Xe	3.16.4s	All	All	All
Operating System	Cisco	ios Xe	3.16.5as	All	All	All
Operating System	Cisco	ios Xe	3.16.5bs	All	All	All
Operating System	Cisco	ios Xe	3.16.5s	All	All	All
Operating System	Cisco	ios Xe	3.16.6bs	All	All	All
Operating System	Cisco	ios Xe	3.16.6s	All	All	All
Operating System	Cisco	ios Xe	3.16.7as	All	All	All
Operating System	Cisco	ios Xe	3.16.7bs	All	All	All
Operating System	Cisco	ios Xe	3.16.7s	All	All	All
Operating System	Cisco	ios Xe	3.16.8s	All	All	All
Operating System	Cisco	ios Xe	3.16.9s	All	All	All
Operating System	Cisco	ios Xe	3.17.0s	All	All	All
Operating System	Cisco	ios Xe	3.17.1as	All	All	All
Operating System	Cisco	ios Xe	3.17.1s	All	All	All
Operating System	Cisco	ios Xe	3.17.2s	All	All	All
Operating System	Cisco	ios Xe	3.17.3s	All	All	All
Operating System	Cisco	ios Xe	3.17.4s	All	All	All
Operating System	Cisco	ios Xe	3.18.0as	All	All	All
Operating System	Cisco	ios Xe	3.18.0s	All	All	All
Operating System	Cisco	ios Xe	3.18.0sp	All	All	All
Operating System	Cisco	ios Xe	3.18.0sp	All	All	All

Operating System	Cisco	los Xe	3.18.1asp	All	All	All
Operating System	Cisco	los Xe	3.18.1bsp	All	All	All
Operating System	Cisco	los Xe	3.18.1csp	All	All	All
Operating System	Cisco	los Xe	3.18.1gsp	All	All	All
Operating System	Cisco	los Xe	3.18.1hsp	All	All	All
Operating System	Cisco	los Xe	3.18.1isp	All	All	All
Operating System	Cisco	los Xe	3.18.1s	All	All	All
Operating System	Cisco	los Xe	3.18.1sp	All	All	All
Operating System	Cisco	los Xe	3.18.2asp	All	All	All
Operating System	Cisco	los Xe	3.18.2s	All	All	All
Operating System	Cisco	los Xe	3.18.2sp	All	All	All
Operating System	Cisco	los Xe	3.18.3asp	All	All	All
Operating System	Cisco	los Xe	3.18.3bsp	All	All	All
Operating System	Cisco	los Xe	3.18.3s	All	All	All
Operating System	Cisco	los Xe	3.18.3sp	All	All	All
Operating System	Cisco	los Xe	3.18.4s	All	All	All
Operating System	Cisco	los Xe	3.18.4sp	All	All	All
Operating System	Cisco	los Xe	3.18.5sp	All	All	All
Operating System	Cisco	los Xe	3.18.6sp	All	All	All
Operating System	Cisco	los Xe	3.18.7sp	All	All	All
Operating System	Cisco	los Xe	3.18.8asp	All	All	All
Operating System	Cisco	los Xe	3.18.8sp	All	All	All
Operating System	Cisco	los Xe	3.7.0bs	All	All	All

Operating System	Cisco	los Xe	3.7.0s	All	All	All
Operating System	Cisco	los Xe	3.7.0xas	All	All	All
Operating System	Cisco	los Xe	3.7.0xbs	All	All	All
Operating System	Cisco	los Xe	3.7.1as	All	All	All
Operating System	Cisco	los Xe	3.7.1s	All	All	All
Operating System	Cisco	los Xe	3.7.2s	All	All	All
Operating System	Cisco	los Xe	3.7.2ts	All	All	All
Operating System	Cisco	los Xe	3.7.3s	All	All	All
Operating System	Cisco	los Xe	3.7.4as	All	All	All
Operating System	Cisco	los Xe	3.7.4s	All	All	All
Operating System	Cisco	los Xe	3.7.5s	All	All	All
Operating System	Cisco	los Xe	3.7.6s	All	All	All
Operating System	Cisco	los Xe	3.7.7s	All	All	All
Operating System	Cisco	los Xe	3.7.8s	All	All	All
Operating System	Cisco	los Xe	3.8.0s	All	All	All
Operating System	Cisco	los Xe	3.8.1s	All	All	All
Operating System	Cisco	los Xe	3.8.2s	All	All	All
Operating System	Cisco	los Xe	3.9.0as	All	All	All
Operating System	Cisco	los Xe	3.9.0s	All	All	All
Operating System	Cisco	los Xe	3.9.0xas	All	All	All
Operating System	Cisco	los Xe	3.9.1as	All	All	All
Operating System	Cisco	los Xe	3.9.1s	All	All	All
Operating System	Cisco	los Xe	3.9.2s	All	All	All

cpe:2.3:o:cisco:ios_xe:16.1.1:*****:
cpe:2.3:o:cisco:ios_xe:16.1.2:*****:
cpe:2.3:o:cisco:ios_xe:16.1.3:*****:
cpe:2.3:o:cisco:ios_xe:16.10.1:*****:
cpe:2.3:o:cisco:ios_xe:16.10.1a:*****:
cpe:2.3:o:cisco:ios_xe:16.10.1b:*****:
cpe:2.3:o:cisco:ios_xe:16.10.1c:*****:
cpe:2.3:o:cisco:ios_xe:16.10.1d:*****:
cpe:2.3:o:cisco:ios_xe:16.10.1e:*****:
cpe:2.3:o:cisco:ios_xe:16.10.1f:*****:
cpe:2.3:o:cisco:ios_xe:16.10.1g:*****:
cpe:2.3:o:cisco:ios_xe:16.10.1s:*****:
cpe:2.3:o:cisco:ios_xe:16.10.2:*****:
cpe:2.3:o:cisco:ios_xe:16.10.3:*****:
cpe:2.3:o:cisco:ios_xe:16.11.1:*****:
cpe:2.3:o:cisco:ios_xe:16.11.1a:*****:
cpe:2.3:o:cisco:ios_xe:16.11.1b:*****:
cpe:2.3:o:cisco:ios_xe:16.11.1c:*****:
cpe:2.3:o:cisco:ios_xe:16.11.1s:*****:
cpe:2.3:o:cisco:ios_xe:16.11.2:*****:
cpe:2.3:o:cisco:ios_xe:16.12.1:*****:
cpe:2.3:o:cisco:ios_xe:16.12.1a:*****:
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```
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```
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```
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```
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```
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```
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```
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```
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```
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```
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```
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```
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```
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```
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```
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```
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```
cpe:2.3:o:cisco:ios_xe:3.18.0s:*:*:*:*:*:*:
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```
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```
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No vendor comments have been submitted for this CVE

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Source	Title	Posted (UTC)
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