

CVE-2016-6415

Cisco IOS, IOS XR, and IOS XE IKEv1 Information Disclosure Vulnerability

CISA KEV since May 19, 2023

Actively exploited

Public exploit module (Metasploit)

The server IKEv1 implementation in Cisco IOS 12.2 through 12.4 and 15.0 through 15.6, IOS XE through 3.18S, IOS XR 4.3.x and 5.0.x through 5.2.x, and PIX before 7.0 allows remote attackers to obtain sensitive information from device memory via a Security Association (SA) negotiation request, aka Bug IDs CSCvb29204 and CSCvb36055 or BENIGNCERTAIN.

EVRS 81/100 Urgent priority	CVSS V3.1 7.5 High · NVD	EPSS 0.877 99.76th percentile · FIRST	CISA DEADLINE Jun 9, 2023 KEV since 2023 · listed over a year
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Signals behind the score

☒ counted in the score ☐ not counted

evidence for 6 of 8 signals

☒ CISA KEV	Listed in the catalog	☐ Vendor exploitation	Confirmed exploitation in the wild
☐ Ransomware	No known ransomware campaign association	☐ KEV recency	On the CISA KEV catalog for over two years
☒ EPSS	0.877 probability	☐ Pre-patch disclosure	Disclosure status unavailable
☒ CVSS	Base score 7.5	☐ Microsoft Exploitability Index	Not a Microsoft CVE

Remediation

Patch This Cycle Patch or fixed version identified

CISA required action: Apply updates per vendor instructions.

Basis: CISA KEV required action

Affected and fixed versions

PACKAGE	AFFECTED	FIXED IN	SOURCE
ios	≥ 12.2 ≤ 12.4 ≥ 15.0 ≤ 15.6	after 12.4 · after 15.6	NVD
ios xe	≤ 3.18s	after 3.18s	NVD
ios xr	≥ 4.3.0 ≤ 4.3.4 ≥ 5.0.0 < 5.3.0	after 4.3.4 · 5.3.0	NVD

Sources

Vendor guidance	github.com/advisories/GHSA-ccm6-q86p-2hwx	sec.cloudapps.cisco.com	sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20160916-ikev1
NVD	nvd.nist.gov/vuln/detail/CVE-2016-6415	CISA KEV	cisa.gov/known-exploited-vulnerabilities-catalog
ENISA EUVD	euvd.enisa.europa.eu/vulnerability/EUVD-2016-7338	Current data	evulnable.com/vulnerability-management/cve/CVE-2016-6415

Snapshot at generation time. EPSS can move quickly. A public exploit module is not evidence of active exploitation.