

CVE-2023-20109

Cisco IOS and IOS XE Group Encrypted Transport VPN Out-of-Bounds Write Vulnerability

CISA KEV since Oct 10, 2023

Actively exploited

A vulnerability in the Cisco Group Encrypted Transport VPN (GET VPN) feature of Cisco IOS Software and Cisco IOS XE Software could allow an authenticated, remote attacker who has administrative control of either a group member or a key server to execute arbitrary code on an affected device or cause the device to crash. This vulnerability is due to insufficient validation of attributes in the Group Domain of Interpretation (GDOI) and G-IKEv2 protocols of the GET VPN feature.

EVRS 75/₁₀₀ Urgent priority	CVSS V3.1 6.6 Medium · NVD	EPSS 0.025 84.5th percentile · FIRST	CISA DEADLINE Oct 31, 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	0.025 probability	☐ Pre-patch disclosure	Disclosure status unavailable
☒ CVSS	Base score 6.6	☐ Microsoft Exploitability Index	Not a Microsoft CVE

Remediation

Patch This Cycle Patch or fixed version identified

CISA required action: Apply mitigations per vendor instructions or discontinue use of the product if mitigations are unavailable.
Basis: CISA KEV required action

An attacker could exploit this vulnerability by either compromising an installed key server or modifying the configuration of a group member to point to a key server that is controlled by the attacker. A successful exploit could allow the attacker to execute arbitrary code and gain full control of the affected system or cause the affected system to reload, resulting in a denial of service (DoS) condition. For more information, see the Details ["#details"] section of this advisory.

Affected and fixed versions

ios	12.4\ (22\)md	no fixed version listed	NVD
	12.4\ (22\)md1		
	12.4\ (22\)md2		
	12.4\ (22\)mda		
	12.4\ (22\)mda1		
	12.4\ (22\)mda2		
	12.4\ (22\)mda3		
	12.4\ (22\)mda4		
	12.4\ (22\)mda5		
	12.4\ (22\)mda6		
	12.4\ (22\)t		
	12.4\ (22\)t1		
	12.4\ (22\)t2		
	12.4\ (22\)t3		
	12.4\ (22\)t4		
	12.4\ (22\)t5		
	12.4\ (22\)xr1		
	12.4\ (22\)xr2		
	12.4\ (22\)xr3		
	12.4\ (22\)xr4		
	12.4\ (22\)xr5		
	12.4\ (22\)xr6		
	12.4\ (22\)xr7		
	12.4\ (22\)xr8		
	12.4\ (22\)xr9		
	12.4\ (22\)xr10		
	12.4\ (22\)xr11		
	12.4\ (22\)xr12		
	12.4\ (24\)md		
	12.4\ (24\)md1		
	12.4\ (24\)md2		
	12.4\ (24\)md3		
	12.4\ (24\)md4		
	12.4\ (24\)md5		
	12.4\ (24\)md6		
	12.4\ (24\)md7		
	12.4\ (24\)mda1		
	12.4\ (24\)mda2		
	12.4\ (24\)mda3		
	12.4\ (24\)mda4		
	12.4\ (24\)mda5		
	12.4\ (24\)mda6		
	12.4\ (24\)mda7		
	12.4\ (24\)mda8		
	12.4\ (24\)mda9		
	12.4\ (24\)mda10		
	12.4\ (24\)mda11		
	12.4\ (24\)mda12		
	12.4\ (24\)mda13		
	12.4\ (24\)mdb		
	12.4\ (24\)mdb1		
	12.4\ (24\)mdb3		
	12.4\ (24\)mdb4		
	12.4\ (24\)mdb5		
	12.4\ (24\)mdb5a		
	12.4\ (24\)mdb6		
	12.4\ (24\)mdb7		
	12.4\ (24\)mdb8		
	12.4\ (24\)mdb9		
	12.4\ (24\)mdb10		
	12.4\ (24\)mdb11		
	12.4\ (24\)mdb12		
	12.4\ (24\)mdb13		

12.4\ (24\)mdb14
12.4\ (24\)mdb15
12.4\ (24\)mdb16
12.4\ (24\)mdb17
12.4\ (24\)mdb18
12.4\ (24\)mdb19
12.4\ (24\)t
12.4\ (24\)t1
12.4\ (24\)t2
12.4\ (24\)t3
12.4\ (24\)t3e
12.4\ (24\)t3f
12.4\ (24\)t4
12.4\ (24\)t4a
12.4\ (24\)t4b
12.4\ (24\)t4c
12.4\ (24\)t4d
12.4\ (24\)t4e
12.4\ (24\)t4f
12.4\ (24\)t4l
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12.4\ (24\)t6
12.4\ (24\)t7
12.4\ (24\)t8
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12.4\ (24\)yg1
12.4\ (24\)yg2
12.4\ (24\)yg3
12.4\ (24\)yg4
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15.0\ (1\)m9
15.0\ (1\)m10
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15.0\ (1\)s1
15.0\ (1\)s2
15.0\ (1\)s3a
15.0\ (1\)s4
15.0\ (1\)s4a
15.0\ (1\)s5
15.0\ (1\)s6
15.0\ (1\)xa
15.0\ (1\)xa1
15.0\ (1\)xa2
15.0\ (1\)xa3
15.0\ (1\)xa4
15.0\ (1\)xa5
15.0\ (2\)ea
15.0\ (2\)ea1
15.0\ (2\)ej
15.0\ (2\)ej1
15.0\ (2\)ek
15.0\ (2\)ek1
15.0\ (2\)ex
15.0\ (2\)ex1
15.0\ (2\)ex2



15.0\2\ex3
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15.0\2\ex12
15.0\2\ex13
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15.0\2\ey1
15.0\2\ey2
15.0\2\ey3
15.0\2\ez
15.0\2\mr
15.0\2\se
15.0\2\se1
15.0\2\se2
15.0\2\se3
15.0\2\se4
15.0\2\se5
15.0\2\se6
15.0\2\se7
15.0\2\se8
15.0\2\se9
15.0\2\se10
15.0\2\se10a
15.0\2\se11
15.0\2\se12
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15.0\2a\ex5
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15.1\1\s1
15.1\1\s2
15.1\1\sg
15.1\1\sg1
15.1\1\sg2
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15.1\1\sy1
15.1\1\sy2
15.1\1\sy3
15.1\1\sy4
15.1\1\sy5
15.1\1\sy6
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15.1\1\t1
15.1\1\t2
15.1\1\t3
15.1\1\t4
15.1\1\t5
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15.1\2\gc1
15.1\2\gc2
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15.1\2\s2
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15.1\2\sg1
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15.1\2\sg6
15.1\2\sg7



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15.1\2\sy1
15.1\2\sy2
15.1\2\sy3
15.1\2\sy4
15.1\2\sy4a
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15.1\2\sy6
15.1\2\sy7
15.1\2\sy8
15.1\2\sy9
15.1\2\sy10
15.1\2\sy11
15.1\2\sy12
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15.1\2\sy14
15.1\2\sy15
15.1\2\sy16
15.1\2\t
15.1\2\t0a
15.1\2\t1
15.1\2\t2
15.1\2\t2a
15.1\2\t3
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15.1\3\mra1
15.1\3\mra2
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15.1\3\s0a
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15.1\3\s2
15.1\3\s3
15.1\3\s4
15.1\3\s5
15.1\3\s5a
15.1\3\s6
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15.1\3\svb2
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15.1\3\svd1
15.1\3\svd2
15.1\3\sve
15.1\3\svf
15.1\3\svf1
15.1\3\svg
15.1\3\svj2
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15.1\4\gc1
15.1\4\gc2
15.1\4\m
15.1\4\m1
15.1\4\m2
15.1\4\m3
15.1\4\m3a



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15.2\1\sy
15.2\1\sy0a
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15.2\1\sy8
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15.2\2\sy1
15.2\2\sy2
15.2\2\sy3
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15.2\2a\e2
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15.2\3\e1

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15.2\3\)\e5
15.2\3\)\ea
15.2\3\)\gc
15.2\3\)\gc1
15.2\3a\)\e
15.2\4\)\e
15.2\4\)\e1
15.2\4\)\e2
15.2\4\)\e3
15.2\4\)\e4
15.2\4\)\e5
15.2\4\)\e5a
15.2\4\)\e6
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15.2\4\)\e10
15.2\4\)\e10a
15.2\4\)\e10d
15.2\4\)\ea
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15.2\4\)\ea3
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15.2\4\)\ea9
15.2\4\)\ea9a
15.2\4\)\ec1
15.2\4\)\ec2
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15.2\4\)\gc1
15.2\4\)\gc2
15.2\4\)\gc3
15.2\4\)\m
15.2\4\)\m1
15.2\4\)\m2
15.2\4\)\m3
15.2\4\)\m4
15.2\4\)\m5
15.2\4\)\m6
15.2\4\)\m6a
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15.2\4\)\m8
15.2\4\)\m9
15.2\4\)\m10
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15.2\4\)\s1
15.2\4\)\s2
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15.2\4\)\s3a
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15.2\4\)\s4a
15.2\4\)\s5
15.2\4\)\s6
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15.2\5\)\e1
15.2\5\)\e2

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15.2\5\ea2c
15.2\5\ea
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15.2\5a\ea1
15.2\5b\ea
15.2\5c\ea
15.2\6\ea
15.2\6\ea0a
15.2\6\ea0c
15.2\6\ea1
15.2\6\ea2
15.2\6\ea2a
15.2\6\ea2b
15.2\6\ea3
15.2\6\eaeb
15.2\7\ea
15.2\7\ea0a
15.2\7\ea0b
15.2\7\ea0s
15.2\7\ea1
15.2\7\ea1a
15.2\7\ea2
15.2\7\ea2a
15.2\7\ea3
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15.2\7\ea6
15.2\7\ea7
15.2\7\ea8
15.2\7a\ea0b
15.2\7b\ea0b
15.2\8\ea
15.2\8\ea1
15.2\8\ea2
15.2\8\ea3
15.2\8\ea4
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15.3\1\sa1
15.3\1\sa2
15.3\1\sy
15.3\1\sy1
15.3\1\sy2
15.3\1\ta
15.3\1\ta1
15.3\1\ta2
15.3\1\ta3
15.3\1\ta4
15.3\2\sa
15.3\2\sa1
15.3\2\sa2
15.3\2\ta
15.3\2\ta1
15.3\2\ta2
15.3\2\ta3
15.3\2\ta4
15.3\3\ma
15.3\3\ma1
15.3\3\ma2
15.3\3\ma3
15.3\3\ma4
15.3\3\ma5



15.3\3)m6
15.3\3)m7
15.3\3)m8
15.3\3)m8a
15.3\3)m9
15.3\3)m10
15.3\3)s
15.3\3)s1
15.3\3)s1a
15.3\3)s2
15.3\3)s3
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15.3\3)s7
15.3\3)s8
15.3\3)s8a
15.3\3)s9
15.3\3)s10
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15.4\1)t
15.4\1)t1
15.4\1)t2
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15.4\1)t4
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15.4\3)m4
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15.4\3)m6
15.4\3)m6a
15.4\3)m7
15.4\3)m8
15.4\3)m9
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15.4\3)s2
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15.4\3)s4



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15.4\3\s6a
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15.5\1\s3
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15.5\3\s2
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15.5\3\s6a
15.5\3\s6b



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15.6\1\s4
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15.6\2\t2
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15.6\3\m1
15.6\3\m1b
15.6\3\m2
15.6\3\m2a
15.6\3\m3
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15.6\3\m6
15.6\3\m6a
15.6\3\m6b
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15.6\3\m8
15.6\3\m9
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15.7\3\m1
15.7\3\m2
15.7\3\m3
15.7\3\m4
15.7\3\m4a
15.7\3\m4b
15.7\3\m5
15.7\3\m6
15.7\3\m7

15.7\3)m8
15.7\3)m9
15.8\3)m
15.8\3)m0a
15.8\3)m0b
15.8\3)m1
15.8\3)m1a
15.8\3)m2
15.8\3)m2a
15.8\3)m3
15.8\3)m3a
15.8\3)m3b
15.8\3)m4
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15.8\3)m6
15.8\3)m7
15.8\3)m8
15.8\3)m9
15.8\3)m10
15.9\3)m
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15.9\3)m1
15.9\3)m2
15.9\3)m2a
15.9\3)m3
15.9\3)m3a
15.9\3)m3b
15.9\3)m4
15.9\3)m4a
15.9\3)m5
15.9\3)m6
15.9\3)m6a
15.9\3)m6b
15.9\3)m7
15.9\3)m7a

ios xe	3.3.0sg	no fixed version listed	NVD
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	3.3.2sg		
	3.4.0sg		
	3.4.1sg		
	3.4.2sg		
	3.4.3sg		
	3.4.4sg		
	3.4.5sg		
	3.4.6sg		
	3.4.7sg		
	3.4.8sg		
	3.5.0e		
	3.5.1e		
	3.5.2e		
	3.5.3e		
	3.6.0e		
	3.6.1e		
	3.6.2ae		
	3.6.2e		
	3.6.3e		
	3.6.4e		
	3.6.5ae		
	3.6.5be		
	3.6.5e		
	3.6.6e		
	3.6.7be		
	3.6.7e		
	3.6.8e		
	3.6.9e		
	3.6.10e		
	3.7.0bs		
	3.7.0s		
	3.7.1as		
	3.7.1s		
	3.7.2s		
	3.7.2ts		
	3.7.3s		
	3.7.4as		
	3.7.4s		
	3.7.5s		
	3.7.6s		
	3.7.7s		
	3.8.0e		
	3.8.0s		
	3.8.1e		
	3.8.1s		
	3.8.2e		
	3.8.2s		
	3.8.3e		
	3.8.4e		
	3.8.5ae		
	3.8.5e		
	3.8.6e		
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PACKAGE	AFFECTED	FIXED IN	SOURCE
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	17.7.1b		
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	17.10.1		
	17.10.1a		
	17.10.1b		
	17.11.1		
	17.11.1a		
	17.11.99sw		

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