CVE-2018-0174

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Summary

CVE	CVE-2018-0174
State	PUBLIC
Assigner	psirt@cisco.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2018-03-28 22:29:00 UTC
Updated	2019-10-09 23:31:00 UTC
Description	A vulnerability in the DHCP option 82 encapsulation functionality of Cisco IOS Software and Cisco IOS XE Software could a

Risk And Classification

EPSS: 0.054250000 probability, percentile 0.901200000 (date 2026-04-02)

CISA KEV: Listed on 2022-03-03; due 2022-03-17; ransomware use Unknown

Problem Types: CWE-20

CISA Known Exploited Vulnerability

Vendor	Cisco
Product	IOS XE Software
Name	Cisco IOS Software and Cisco IOS XE Software Improper Input Validation Vulnerability
Required Action	Apply updates per vendor instructions.
Notes	https://nvd.nist.gov/vuln/detail/CVE-2018-0174

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Cisco	7600 Series Route Switch Processor 720	-	All	All	All
Hardware	Cisco	7600 Series Route Switch Processor 720	-	All	All	All
Hardware	Cisco	7600 Series Supervisor Engine 32	-	All	All	All
Hardware	Cisco	7600 Series Supervisor Engine 32	-	All	All	All
Hardware	Cisco	7600 Series Supervisor Engine 720	-	All	All	All
Hardware	Cisco	7600 Series Supervisor Engine 720	-	All	All	All
Operating System	Cisco	Ios	12.2(33)sre7a	All	All	All
Operating System	Cisco	Ios	12.2\(33\)sre7a	All	All	All

Operating System	Cisco	Ios	12.2\(33\)sre7a	All	All	All
Operating System	Cisco	Ios Xe	12.2(33)sre7a	All	All	All
Operating System	Cisco	Ios Xe	12.2\(33\)sre7a	All	All	All
Operating System	Cisco	Ios Xe	12.2\(33\)sre7a	All	All	All
Hardware	Rockwellautomation	Allen-bradley Armorstratix 5700	-	All	All	All
Hardware	Rockwellautomation	Allen-bradley Armorstratix 5700	-	All	All	All
Hardware	Rockwellautomation	Allen-bradley Stratix 5400	-	All	All	All
Hardware	Rockwellautomation	Allen-bradley Stratix 5400	-	All	All	All
Hardware	Rockwellautomation	Allen-bradley Stratix 5410	-	All	All	All
Hardware	Rockwellautomation	Allen-bradley Stratix 5410	-	All	All	All
Hardware	Rockwellautomation	Allen-bradley Stratix 5700	-	All	All	All
Hardware	Rockwellautomation	Allen-bradley Stratix 5700	-	All	All	All
Hardware	Rockwellautomation	Allen-bradley Stratix 8000	-	All	All	All
Hardware	Rockwellautomation	Allen-bradley Stratix 8000	-	All	All	All
Hardware	Rockwellautomation	Allen-bradley Stratix 8300	-	All	All	All
Hardware	Rockwellautomation	Allen-bradley Stratix 8300	-	All	All	All

References

Reference	Source
Rockwell Automation Stratix and ArmorStratix Switches | CISA	MISC
Rockwell Automation Stratix Industrial Managed Ethernet Switch | ICS-CERT	MISC
Cisco IOS/IOS XE DHCP Option 82 Processing Bugs Let Remote Users Cause the Target System to Reload - SecurityTracker	SECTRACK
Cisco IOS and IOS XE Software DHCP Version 4 Relay Denial of Service Vulnerability	CONFIRM
[R1] Cisco IOS and IOS XE Multiple Memory Corruption Vulnerabilities - Research Advisory | Tenable®	MISC
Cisco IOS and IOS XE Software CVE-2018-0174 Denial of Service Vulnerability	BID
CVE Program record	CVE.ORG
NVD vulnerability detail	NVD
CISA Known Exploited Vulnerabilities catalog	CISA

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

590338 Rockwell Automation Stratix and ArmorStratix Switches Multiple Vulnerabilities (ICSA-18-107-04)

590339 Rockwell Automation Stratix Industrial Managed Ethernet Switch Multiple Vulnerabilities (ICSA-18-107-05)