



CVE-2018-0172

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF !\[\]\(e3f8612927870f2e0f9f5989e6dd3064_img.jpg\)](#)

Summary

CVE	CVE-2018-0172
State	PUBLIC
Assigner	psirt@cisco.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2018-03-28 22:29:00 UTC
Updated	2020-09-04 18:25:00 UTC
Description	A vulnerability in the DHCP option 82 encapsulation functionality of Cisco IOS Software and Cisco IOS XE Software could e

Risk And Classification

EPSS: 0.061900000 probability, percentile 0.908100000 (date 2026-04-02)

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

Problem Types: CWE-787

CISA Known Exploited Vulnerability

Vendor	Cisco
Product	IOS and IOS XE Software
Name	Cisco IOS and IOS XE Software Improper Input Validation Vulnerability
Required Action	Apply updates per vendor instructions.
Notes	https://nvd.nist.gov/vuln/detail/CVE-2018-0172

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Cisco	ios	-	All	All	All
Operating System	Cisco	ios	-	All	All	All
Operating System	Cisco	ios Xe	-	All	All	All
Operating System	Cisco	ios Xe	-	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
Cisco IOS and IOS XE Software DHCP Version 4 Relay Heap Overflow Denial of Service Vulnerability	CONFIRM
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
Malformed Request	BID
[R1] Cisco IOS and IOS XE Multiple Memory Corruption Vulnerabilities - Research Advisory Tenable®	MISC
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)

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