



# CVE-2018-0156

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF !\[\]\(e3f8612927870f2e0f9f5989e6dd3064\_img.jpg\)](#)

## Summary

<b>CVE</b>	CVE-2018-0156
<b>State</b>	PUBLIC
<b>Assigner</b>	psirt@cisco.com
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2018-03-28 22:29:00 UTC
<b>Updated</b>	2020-09-02 16:03:00 UTC
<b>Description</b>	A vulnerability in the Smart Install feature of Cisco IOS Software and Cisco IOS XE Software could allow an unauthenticated

## Risk And Classification

**EPSS:** 0.155280000 probability, percentile 0.946420000 (date 2026-04-01)

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

**Problem Types:** CWE-20

## CISA Known Exploited Vulnerability

<b>Vendor</b>	Cisco
<b>Product</b>	IOS Software and Cisco IOS XE Software
<b>Name</b>	Cisco IOS Software and Cisco IOS XE Software Smart Install Denial-of-Service Vulnerability
<b>Required Action</b>	Apply updates per vendor instructions.
<b>Notes</b>	<a href="https://nvd.nist.gov/vuln/detail/CVE-2018-0156">https://nvd.nist.gov/vuln/detail/CVE-2018-0156</a>

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	<a href="#">Cisco</a>	<a href="#">Catalyst 2960-plus 24lc-l</a>	-	All	All	All
Hardware	<a href="#">Cisco</a>	<a href="#">Catalyst 2960-plus 24lc-l</a>	-	All	All	All
Hardware	<a href="#">Cisco</a>	<a href="#">Catalyst 2960-plus 24lc-s</a>	-	All	All	All
Hardware	<a href="#">Cisco</a>	<a href="#">Catalyst 2960-plus 24lc-s</a>	-	All	All	All
Hardware	<a href="#">Cisco</a>	<a href="#">Catalyst 2960-plus 24pc-l</a>	-	All	All	All
Hardware	<a href="#">Cisco</a>	<a href="#">Catalyst 2960-plus 24pc-l</a>	-	All	All	All
Hardware	<a href="#">Cisco</a>	<a href="#">Catalyst 2960-plus 24pc-s</a>	-	All	All	All
Hardware	<a href="#">Cisco</a>	<a href="#">Catalyst 2960-plus 24pc-s</a>	-	All	All	All

Hardware	Cisco	Catalyst 2960-plus 24tc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960-plus 24tc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960-plus 24tc-s	-	All	All	All
Hardware	Cisco	Catalyst 2960-plus 24tc-s	-	All	All	All
Hardware	Cisco	Catalyst 2960-plus 48pst-l	-	All	All	All
Hardware	Cisco	Catalyst 2960-plus 48pst-l	-	All	All	All
Hardware	Cisco	Catalyst 2960-plus 48pst-s	-	All	All	All
Hardware	Cisco	Catalyst 2960-plus 48pst-s	-	All	All	All
Hardware	Cisco	Catalyst 2960-plus 48tc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960-plus 48tc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960-plus 48tc-s	-	All	All	All
Hardware	Cisco	Catalyst 2960-plus 48tc-s	-	All	All	All
Hardware	Cisco	Catalyst 2960c-12pc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960c-12pc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960c-8pc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960c-8pc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960c-8tc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960c-8tc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960c-8tc-s	-	All	All	All
Hardware	Cisco	Catalyst 2960c-8tc-s	-	All	All	All
Hardware	Cisco	Catalyst 2960cg-8tc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960cg-8tc-l	-	All	All	All
Hardware	Cisco	Catalyst 2960cpd-8pt-l	-	All	All	All
Hardware	Cisco	Catalyst 2960cpd-8pt-l	-	All	All	All
Hardware	Cisco	Catalyst 2960cpd-8tt-l	-	All	All	All
Hardware	Cisco	Catalyst 2960cpd-8tt-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-24pd-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-24pd-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-24ps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-24ps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-24td-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-24td-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-24ts-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-24ts-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-24ts-s	-	All	All	All

Hardware	Cisco	Catalyst 2960s-24ts-s	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48fpd-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48fpd-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48fps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48fps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48lpd-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48lpd-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48lps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48lps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48td-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48td-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48ts-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48ts-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48ts-s	-	All	All	All
Hardware	Cisco	Catalyst 2960s-48ts-s	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f24ps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f24ps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f24ts-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f24ts-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f24ts-s	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f24ts-s	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f48fps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f48fps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f48lps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f48lps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f48ts-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f48ts-l	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f48ts-s	-	All	All	All
Hardware	Cisco	Catalyst 2960s-f48ts-s	-	All	All	All
Hardware	Cisco	Catalyst 2960x-24pd-l	-	All	All	All
Hardware	Cisco	Catalyst 2960x-24pd-l	-	All	All	All
Hardware	Cisco	Catalyst 2960x-24ps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960x-24ps-l	-	All	All	All
Hardware	Cisco	Catalyst 2960x-24psq-l Cool	-	All	All	All
Hardware	Cisco	Catalyst 2960x-24psq-l Cool	-	All	All	All



Hardware	Cisco	Catalyst 2960xr-48td-i	-	All	All	All
Hardware	Cisco	Catalyst 2960xr-48td-i	-	All	All	All
Hardware	Cisco	Catalyst 2960xr-48ts-i	-	All	All	All
Hardware	Cisco	Catalyst 2960xr-48ts-i	-	All	All	All
Hardware	Cisco	Catalyst 3560c-12pc-s	-	All	All	All
Hardware	Cisco	Catalyst 3560c-12pc-s	-	All	All	All
Hardware	Cisco	Catalyst 3560c-8pc-s	-	All	All	All
Hardware	Cisco	Catalyst 3560c-8pc-s	-	All	All	All
Hardware	Cisco	Catalyst 3560cg-8pc-s	-	All	All	All
Hardware	Cisco	Catalyst 3560cg-8pc-s	-	All	All	All
Hardware	Cisco	Catalyst 3560cg-8tc-s	-	All	All	All
Hardware	Cisco	Catalyst 3560cg-8tc-s	-	All	All	All
Hardware	Cisco	Catalyst 3560cpd-8pt-s	-	All	All	All
Hardware	Cisco	Catalyst 3560cpd-8pt-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24p-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24p-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24p-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24p-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24p-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24p-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24t-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24t-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24t-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24t-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24t-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24t-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24u-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24u-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24u-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24u-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24u-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-24u-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48p-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48p-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48p-l	-	All	All	All

Hardware	Cisco	Catalyst 3560x-48p-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48p-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48p-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48pf-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48pf-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48pf-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48pf-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48pf-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48pf-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48t-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48t-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48t-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48t-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48t-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48t-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48u-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48u-e	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48u-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48u-l	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48u-s	-	All	All	All
Hardware	Cisco	Catalyst 3560x-48u-s	-	All	All	All
Hardware	Cisco	Catalyst 3750x-12s-e	-	All	All	All
Hardware	Cisco	Catalyst 3750x-12s-e	-	All	All	All
Hardware	Cisco	Catalyst 3750x-12s-s	-	All	All	All
Hardware	Cisco	Catalyst 3750x-12s-s	-	All	All	All
Hardware	Cisco	Catalyst 3750x-24p-e	-	All	All	All
Hardware	Cisco	Catalyst 3750x-24p-e	-	All	All	All
Hardware	Cisco	Catalyst 3750x-24p-l	-	All	All	All
Hardware	Cisco	Catalyst 3750x-24p-l	-	All	All	All
Hardware	Cisco	Catalyst 3750x-24p-s	-	All	All	All
Hardware	Cisco	Catalyst 3750x-24p-s	-	All	All	All
Hardware	Cisco	Catalyst 3750x-24s-e	-	All	All	All
Hardware	Cisco	Catalyst 3750x-24s-e	-	All	All	All
Hardware	Cisco	Catalyst 3750x-24s-s	-	All	All	All
Hardware	Cisco	Catalyst 3750x-24s-s	-	All	All	All



Hardware	Cisco	Catalyst 4500 Supervisor Engine 6-e	-	All	All	All
Hardware	Cisco	Catalyst 4500 Supervisor Engine 6-e	-	All	All	All
Hardware	Cisco	Catalyst 4500 Supervisor Engine 6l-e	-	All	All	All
Hardware	Cisco	Catalyst 4500 Supervisor Engine 6l-e	-	All	All	All
Hardware	Cisco	Catalyst 4900m	-	All	All	All
Hardware	Cisco	Catalyst 4900m	-	All	All	All
Hardware	Cisco	Catalyst 4948e	-	All	All	All
Hardware	Cisco	Catalyst 4948e	-	All	All	All
Hardware	Cisco	Catalyst 4948e-f	-	All	All	All
Hardware	Cisco	Catalyst 4948e-f	-	All	All	All
Hardware	Cisco	Embedded Service 2020 24tc Con	-	All	All	All
Hardware	Cisco	Embedded Service 2020 24tc Con	-	All	All	All
Hardware	Cisco	Embedded Service 2020 24tc Con B	-	All	All	All
Hardware	Cisco	Embedded Service 2020 24tc Con B	-	All	All	All
Hardware	Cisco	Embedded Service 2020 24tc Ncp	-	All	All	All
Hardware	Cisco	Embedded Service 2020 24tc Ncp	-	All	All	All
Hardware	Cisco	Embedded Service 2020 24tc Ncp B	-	All	All	All
Hardware	Cisco	Embedded Service 2020 24tc Ncp B	-	All	All	All
Hardware	Cisco	Embedded Service 2020 Con	-	All	All	All
Hardware	Cisco	Embedded Service 2020 Con	-	All	All	All
Hardware	Cisco	Embedded Service 2020 Con B	-	All	All	All
Hardware	Cisco	Embedded Service 2020 Con B	-	All	All	All
Hardware	Cisco	Embedded Service 2020 Ncp	-	All	All	All
Hardware	Cisco	Embedded Service 2020 Ncp	-	All	All	All
Hardware	Cisco	Embedded Service 2020 Ncp B	-	All	All	All
Hardware	Cisco	Embedded Service 2020 Ncp B	-	All	All	All
Hardware	Cisco	le-3010-16s-8pc	-	All	All	All
Hardware	Cisco	le-3010-16s-8pc	-	All	All	All
Hardware	Cisco	le-3010-24tc	-	All	All	All
Hardware	Cisco	le-3010-24tc	-	All	All	All
Hardware	Cisco	le 2000-16ptc-g	-	All	All	All
Hardware	Cisco	le 2000-16ptc-g	-	All	All	All
Hardware	Cisco	le 2000-16t67	-	All	All	All
Hardware	Cisco	le 2000-16t67	-	All	All	All
Hardware	Cisco	le 2000-16t67p	-	All	All	All

Hardware	Cisco	le 2000-16t67p	-	All	All	All
Hardware	Cisco	le 2000-16tc	-	All	All	All
Hardware	Cisco	le 2000-16tc	-	All	All	All
Hardware	Cisco	le 2000-16tc-g	-	All	All	All
Hardware	Cisco	le 2000-16tc-g	-	All	All	All
Hardware	Cisco	le 2000-16tc-g-e	-	All	All	All
Hardware	Cisco	le 2000-16tc-g-e	-	All	All	All
Hardware	Cisco	le 2000-16tc-g-n	-	All	All	All
Hardware	Cisco	le 2000-16tc-g-n	-	All	All	All
Hardware	Cisco	le 2000-16tc-g-x	-	All	All	All
Hardware	Cisco	le 2000-16tc-g-x	-	All	All	All
Hardware	Cisco	le 2000-24t67	-	All	All	All
Hardware	Cisco	le 2000-24t67	-	All	All	All
Hardware	Cisco	le 2000-4s-ts-g	-	All	All	All
Hardware	Cisco	le 2000-4s-ts-g	-	All	All	All
Hardware	Cisco	le 2000-4t	-	All	All	All
Hardware	Cisco	le 2000-4t	-	All	All	All
Hardware	Cisco	le 2000-4t-g	-	All	All	All
Hardware	Cisco	le 2000-4t-g	-	All	All	All
Hardware	Cisco	le 2000-4ts	-	All	All	All
Hardware	Cisco	le 2000-4ts	-	All	All	All
Hardware	Cisco	le 2000-4ts-g	-	All	All	All
Hardware	Cisco	le 2000-4ts-g	-	All	All	All
Hardware	Cisco	le 2000-8t67	-	All	All	All
Hardware	Cisco	le 2000-8t67	-	All	All	All
Hardware	Cisco	le 2000-8t67p	-	All	All	All
Hardware	Cisco	le 2000-8t67p	-	All	All	All
Hardware	Cisco	le 2000-8tc	-	All	All	All
Hardware	Cisco	le 2000-8tc	-	All	All	All
Hardware	Cisco	le 2000-8tc-g	-	All	All	All
Hardware	Cisco	le 2000-8tc-g	-	All	All	All
Hardware	Cisco	le 2000-8tc-g-e	-	All	All	All
Hardware	Cisco	le 2000-8tc-g-e	-	All	All	All
Hardware	Cisco	le 2000-8tc-g-n	-	All	All	All
Hardware	Cisco	le 2000-8tc-g-n	-	All	All	All
Hardware	Cisco	le 2000-4ts	-	All	All	All

Hardware	Cisco	le 3000-4tc	-	All	All	All
Hardware	Cisco	le 3000-4tc	-	All	All	All
Hardware	Cisco	le 3000-8tc	-	All	All	All
Hardware	Cisco	le 3000-8tc	-	All	All	All
Operating System	Cisco	ios	15.2(2)e4	All	All	All
Operating System	Cisco	ios	15.2(2a)ja	All	All	All
Operating System	Cisco	ios	15.2(2a)ja	All	All	All
Operating System	Cisco	ios	15.2(2)e4	All	All	All
Operating System	Cisco	ios	15.2(2a)ja	All	All	All
Operating System	Cisco	ios	15.2(2)e4	All	All	All
Operating System	Cisco	ios Xe	15.2(2)e4	All	All	All
Operating System	Cisco	ios Xe	15.2(2a)ja	All	All	All
Operating System	Cisco	ios Xe	15.2(2a)ja	All	All	All
Operating System	Cisco	ios Xe	15.2(2)e4	All	All	All
Operating System	Cisco	ios Xe	15.2(2a)ja	All	All	All
Operating System	Cisco	ios Xe	15.2(2)e4	All	All	All

## References

Reference	Source
Rockwell Automation Stratix and ArmorStratix Switches   CISA	MISC
Cisco IOS and IOS XE Software CVE-2018-0156 Denial of Service Vulnerability	BID
Rockwell Automation Stratix Industrial Managed Ethernet Switch   ICS-CERT	MISC
Cisco IOS and IOS XE Software Smart Install Denial of Service Vulnerability	CONFIRM
Cisco IOS/IOS XE Smart Install Input Validation Flaw Lets Remote Users Cause the Target System to Reload - SecurityTracker	SECTRACKER
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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