



CVE-2020-3503

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

Summary

| | |
|------------------------|--|
| CVE | CVE-2020-3503 |
| State | PUBLIC |
| Assigner | psirt@cisco.com |
| Source Priority | CVE Program / NVD first with legacy fallback |
| Published | 2020-09-24 18:15:00 UTC |
| Updated | 2023-11-07 03:22:00 UTC |
| Description | A vulnerability in the file system permissions of Cisco IOS XE Software could allow an authenticated, local attacker to obtain |

Risk And Classification

Problem Types: CWE-732

NVD Known Affected Configurations (CPE 2.3)

| Type | Vendor | Product | Version | Update | Edition | Language |
|----------|-----------------------|---|---------|--------|---------|----------|
| Hardware | Cisco | 1100-4gltegb Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1100-4gltena Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1100-4g Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1100-4p Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1100-6g Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1100-8p Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1100-lte Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1100 Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1101-4p Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1101 Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1109-2p Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1109-4p Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1109 Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1111x-8p Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1111x Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 111x Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 1120 Integrated Services Router | - | All | All | All |

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|----------|-------|---------------------------------|---|-----|-----|-----|
| Hardware | Cisco | 1160 Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 4221 Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 4331 Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 4431 Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 4451 Integrated Services Router | - | All | All | All |
| Hardware | Cisco | 4461 Integrated Services Router | - | All | All | All |
| Hardware | Cisco | Asr1001-hx | - | All | All | All |
| Hardware | Cisco | Asr1001-hx | - | All | All | All |
| Hardware | Cisco | Asr1001-hx-rf | - | All | All | All |
| Hardware | Cisco | Asr1001-hx-rf | - | All | All | All |
| Hardware | Cisco | Asr1001-x-rf | - | All | All | All |
| Hardware | Cisco | Asr1001-x-rf | - | All | All | All |
| Hardware | Cisco | Asr1001-x-ws | - | All | All | All |
| Hardware | Cisco | Asr1001-x-ws | - | All | All | All |
| Hardware | Cisco | Asr1002-hx | - | All | All | All |
| Hardware | Cisco | Asr1002-hx | - | All | All | All |
| Hardware | Cisco | Asr1002-hx-rf | - | All | All | All |
| Hardware | Cisco | Asr1002-hx-rf | - | All | All | All |
| Hardware | Cisco | Asr1002-hx-ws | - | All | All | All |
| Hardware | Cisco | Asr1002-hx-ws | - | All | All | All |
| Hardware | Cisco | Asr1002-x-rf | - | All | All | All |
| Hardware | Cisco | Asr1002-x-rf | - | All | All | All |
| Hardware | Cisco | Asr1002-x-ws | - | All | All | All |
| Hardware | Cisco | Asr1002-x-ws | - | All | All | All |
| Hardware | Cisco | Asr 1000-x | - | All | All | All |
| Hardware | Cisco | Asr 1000-x | - | All | All | All |
| Hardware | Cisco | Asr 1001 | - | All | All | All |
| Hardware | Cisco | Asr 1001 | - | All | All | All |
| Hardware | Cisco | Asr 1001-x | - | All | All | All |
| Hardware | Cisco | Asr 1001-x | - | All | All | All |
| Hardware | Cisco | Asr 1002 | - | All | All | All |
| Hardware | Cisco | Asr 1002 | - | All | All | All |
| Hardware | Cisco | Asr 1002-x | - | All | All | All |
| Hardware | Cisco | Asr 1002-x | - | All | All | All |
| Hardware | Cisco | Asr 1004 | - | All | All | All |

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|----------|-------|--------------------------|---|-----|-----|-----|
| Hardware | Cisco | Asr 1004 | - | All | All | All |
| Hardware | Cisco | Asr 1006 | - | All | All | All |
| Hardware | Cisco | Asr 1006 | - | All | All | All |
| Hardware | Cisco | Asr 1013 | - | All | All | All |
| Hardware | Cisco | Asr 1013 | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-40 | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-40 | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-80 | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-80 | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-cl | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-cl | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-l | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-l | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-l-c | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-l-c | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-l-f | - | All | All | All |
| Hardware | Cisco | Catalyst 9800-l-f | - | All | All | All |
| Hardware | Cisco | Catalyst C9200-24p | - | All | All | All |
| Hardware | Cisco | Catalyst C9200-24p | - | All | All | All |
| Hardware | Cisco | Catalyst C9200-24t | - | All | All | All |
| Hardware | Cisco | Catalyst C9200-24t | - | All | All | All |
| Hardware | Cisco | Catalyst C9200-48p | - | All | All | All |
| Hardware | Cisco | Catalyst C9200-48p | - | All | All | All |
| Hardware | Cisco | Catalyst C9200-48t | - | All | All | All |
| Hardware | Cisco | Catalyst C9200-48t | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24p-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24p-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24p-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24p-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24pxg-2y | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24pxg-2y | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24pxg-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24pxg-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24t-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24t-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24t-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9200l-24t-4g | - | All | All | All |

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|----------|-------|--------------------------|---|-----|-----|-----|
| Hardware | Cisco | Catalyst C9200I-24t-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-24t-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48p-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48p-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48p-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48p-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48pxg-2y | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48pxg-2y | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48pxg-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48pxg-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48t-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48t-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48t-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9200I-48t-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-24p | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-24p | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-24s | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-24s | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-24t | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-24t | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-24u | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-24u | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-24ux | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-24ux | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48p | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48p | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48s | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48s | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48t | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48t | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48u | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48u | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48un | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48un | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48uxm | - | All | All | All |
| Hardware | Cisco | Catalyst C9300-48uxm | - | All | All | All |

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|----------|-------|------------------------|---|-----|-----|-----|
| Hardware | Cisco | Catalyst C9300I-24p-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-24p-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-24p-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-24p-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-24t-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-24t-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-24t-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-24t-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-48p-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-48p-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-48p-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-48p-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-48t-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-48t-4g | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-48t-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9300I-48t-4x | - | All | All | All |
| Hardware | Cisco | Catalyst C9404r | - | All | All | All |
| Hardware | Cisco | Catalyst C9404r | - | All | All | All |
| Hardware | Cisco | Catalyst C9407r | - | All | All | All |
| Hardware | Cisco | Catalyst C9407r | - | All | All | All |
| Hardware | Cisco | Catalyst C9410r | - | All | All | All |
| Hardware | Cisco | Catalyst C9410r | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-12q | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-12q | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-16x | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-16x | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-24q | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-24q | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-24y4c | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-24y4c | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-32c | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-32c | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-32qc | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-32qc | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-40x | - | All | All | All |

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| Hardware | Cisco | Catalyst C9500-40x | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-48y4c | - | All | All | All |
| Hardware | Cisco | Catalyst C9500-48y4c | - | All | All | All |
| Hardware | Cisco | Csr 1000v | All | All | All | All |
| Hardware | Cisco | Csr 1000v | All | All | All | All |
| Hardware | Cisco | Integrated Services Router 4221 | - | All | All | All |
| Hardware | Cisco | Integrated Services Router 4221 | - | All | All | All |
| Hardware | Cisco | Integrated Services Router 4331 | - | All | All | All |
| Hardware | Cisco | Integrated Services Router 4331 | - | All | All | All |
| Hardware | Cisco | Integrated Services Router 4431 | - | All | All | All |
| Hardware | Cisco | Integrated Services Router 4431 | - | All | All | All |
| Hardware | Cisco | Integrated Services Router 4451 | - | All | All | All |
| Hardware | Cisco | Integrated Services Router 4451 | - | All | All | All |
| Hardware | Cisco | Integrated Services Router 4461 | - | All | All | All |
| Hardware | Cisco | Integrated Services Router 4461 | - | All | All | All |
| Application | Cisco | ios Xe | 16.12.1 | All | All | All |
| Application | Cisco | ios Xe | 16.12.1 | All | All | All |
| Hardware | Cisco | Isr1100 | - | All | All | All |
| Hardware | Cisco | Isr1100 | - | All | All | All |
| Hardware | Cisco | Isr1100-4g | - | All | All | All |
| Hardware | Cisco | Isr1100-4g | - | All | All | All |
| Hardware | Cisco | Isr1100-4gltegb | - | All | All | All |
| Hardware | Cisco | Isr1100-4gltegb | - | All | All | All |
| Hardware | Cisco | Isr1100-4gltena | - | All | All | All |
| Hardware | Cisco | Isr1100-4gltena | - | All | All | All |
| Hardware | Cisco | Isr1100-6g | - | All | All | All |
| Hardware | Cisco | Isr1100-6g | - | All | All | All |
| Hardware | Cisco | Isr1100-lte | - | All | All | All |
| Hardware | Cisco | Isr1100-lte | - | All | All | All |
| Hardware | Cisco | Isr 1100-4p | - | All | All | All |
| Hardware | Cisco | Isr 1100-4p | - | All | All | All |
| Hardware | Cisco | Isr 1100-8p | - | All | All | All |
| Hardware | Cisco | Isr 1100-8p | - | All | All | All |
| Hardware | Cisco | Isr 1101 | - | All | All | All |
| Hardware | Cisco | Isr 1101 | - | All | All | All |
| Hardware | Cisco | Isr 1101-4p | - | All | All | All |

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|----------|-------|------------------|---|-----|-----|-----|
| Hardware | Cisco | Isr 1101-4p | - | All | All | All |
| Hardware | Cisco | Isr 1101-4p | - | All | All | All |
| Hardware | Cisco | Isr 1109 | - | All | All | All |
| Hardware | Cisco | Isr 1109 | - | All | All | All |
| Hardware | Cisco | Isr 1109-2p | - | All | All | All |
| Hardware | Cisco | Isr 1109-2p | - | All | All | All |
| Hardware | Cisco | Isr 1109-4p | - | All | All | All |
| Hardware | Cisco | Isr 1109-4p | - | All | All | All |
| Hardware | Cisco | Isr 1111x | - | All | All | All |
| Hardware | Cisco | Isr 1111x | - | All | All | All |
| Hardware | Cisco | Isr 1111x-8p | - | All | All | All |
| Hardware | Cisco | Isr 1111x-8p | - | All | All | All |
| Hardware | Cisco | Isr 111x | - | All | All | All |
| Hardware | Cisco | Isr 111x | - | All | All | All |
| Hardware | Cisco | Isr 1120 | - | All | All | All |
| Hardware | Cisco | Isr 1120 | - | All | All | All |
| Hardware | Cisco | Isr 1160 | - | All | All | All |
| Hardware | Cisco | Isr 1160 | - | All | All | All |
| Hardware | Cisco | Ws-c3650-12x48uq | - | All | All | All |
| Hardware | Cisco | Ws-c3650-12x48uq | - | All | All | All |
| Hardware | Cisco | Ws-c3650-12x48ur | - | All | All | All |
| Hardware | Cisco | Ws-c3650-12x48ur | - | All | All | All |
| Hardware | Cisco | Ws-c3650-12x48uz | - | All | All | All |
| Hardware | Cisco | Ws-c3650-12x48uz | - | All | All | All |
| Hardware | Cisco | Ws-c3650-24pd | - | All | All | All |
| Hardware | Cisco | Ws-c3650-24pd | - | All | All | All |
| Hardware | Cisco | Ws-c3650-24pdm | - | All | All | All |
| Hardware | Cisco | Ws-c3650-24pdm | - | All | All | All |
| Hardware | Cisco | Ws-c3650-24ps | - | All | All | All |
| Hardware | Cisco | Ws-c3650-24ps | - | All | All | All |
| Hardware | Cisco | Ws-c3650-24td | - | All | All | All |
| Hardware | Cisco | Ws-c3650-24td | - | All | All | All |
| Hardware | Cisco | Ws-c3650-24ts | - | All | All | All |
| Hardware | Cisco | Ws-c3650-24ts | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48fd | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48fd | - | All | All | All |

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|----------|-------|-----------------|---|-----|-----|-----|
| Hardware | Cisco | Ws-c3650-48fq | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48fq | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48fqm | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48fqm | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48fs | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48fs | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48pd | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48pd | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48pq | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48pq | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48ps | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48ps | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48td | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48td | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48tq | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48tq | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48ts | - | All | All | All |
| Hardware | Cisco | Ws-c3650-48ts | - | All | All | All |
| Hardware | Cisco | Ws-c3650-8x24uq | - | All | All | All |
| Hardware | Cisco | Ws-c3650-8x24uq | - | All | All | All |
| Hardware | Cisco | Ws-c3850 | - | All | All | All |
| Hardware | Cisco | Ws-c3850 | - | All | All | All |
| Hardware | Cisco | Ws-c3850-12s | - | All | All | All |
| Hardware | Cisco | Ws-c3850-12s | - | All | All | All |
| Hardware | Cisco | Ws-c3850-12x48u | - | All | All | All |
| Hardware | Cisco | Ws-c3850-12x48u | - | All | All | All |
| Hardware | Cisco | Ws-c3850-12xs | - | All | All | All |
| Hardware | Cisco | Ws-c3850-12xs | - | All | All | All |
| Hardware | Cisco | Ws-c3850-24p | - | All | All | All |
| Hardware | Cisco | Ws-c3850-24p | - | All | All | All |
| Hardware | Cisco | Ws-c3850-24s | - | All | All | All |
| Hardware | Cisco | Ws-c3850-24s | - | All | All | All |
| Hardware | Cisco | Ws-c3850-24t | - | All | All | All |
| Hardware | Cisco | Ws-c3850-24t | - | All | All | All |
| Hardware | Cisco | Ws-c3850-24u | - | All | All | All |

| | | | | | | |
|----------|-------|---------------|---|-----|-----|-----|
| Hardware | Cisco | Ws-c3850-24u | - | All | All | All |
| Hardware | Cisco | Ws-c3850-24xs | - | All | All | All |
| Hardware | Cisco | Ws-c3850-24xs | - | All | All | All |
| Hardware | Cisco | Ws-c3850-24xu | - | All | All | All |
| Hardware | Cisco | Ws-c3850-24xu | - | All | All | All |
| Hardware | Cisco | Ws-c3850-48f | - | All | All | All |
| Hardware | Cisco | Ws-c3850-48f | - | All | All | All |
| Hardware | Cisco | Ws-c3850-48p | - | All | All | All |
| Hardware | Cisco | Ws-c3850-48p | - | All | All | All |
| Hardware | Cisco | Ws-c3850-48t | - | All | All | All |
| Hardware | Cisco | Ws-c3850-48t | - | All | All | All |
| Hardware | Cisco | Ws-c3850-48u | - | All | All | All |
| Hardware | Cisco | Ws-c3850-48u | - | All | All | All |
| Hardware | Cisco | Ws-c3850-48xs | - | All | All | All |
| Hardware | Cisco | Ws-c3850-48xs | - | All | All | All |

References

| Reference | Source | Link | Tags |
|---|---------|---|---------------------|
| Cisco IOS XE Software Guest Shell Unauthorized File System Access Vulnerability | CISCO | tools.cisco.com | Vendor Advisory |
| CVE Program record | CVE.ORG | www.cve.org | canonical |
| NVD vulnerability detail | NVD | nvd.nist.gov | canonical, analysis |

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.

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