



# CVE-2019-1739

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

## Summary

|                        |                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>CVE</b>             | CVE-2019-1739                                                                                                           |
| <b>State</b>           | PUBLIC                                                                                                                  |
| <b>Assigner</b>        | psirt@cisco.com                                                                                                         |
| <b>Source Priority</b> | CVE Program / NVD first with legacy fallback                                                                            |
| <b>Published</b>       | 2019-03-28 00:29:00 UTC                                                                                                 |
| <b>Updated</b>         | 2023-03-24 17:47:00 UTC                                                                                                 |
| <b>Description</b>     | A vulnerability in the Network-Based Application Recognition (NBAR) feature of Cisco IOS Software and Cisco IOS XE Soft |

## Risk And Classification

### Problem Types: CWE-20

## NVD Known Affected Configurations (CPE 2.3)

| Type             | Vendor                | Product             | Version      | Update | Edition | Language |
|------------------|-----------------------|---------------------|--------------|--------|---------|----------|
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(2)sg8a  | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svg3d | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svi1b | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svk4b | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svk4c | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svm3  | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svn2  | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svo1  | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svo2  | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svo3  | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svo4  | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svp1  | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(3)svp2  | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1(4)m12c  | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1\2\sg8a  | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1\3\svg3d | All    | All     | All      |
| Operating System | <a href="#">Cisco</a> | <a href="#">ios</a> | 15.1\3\svi1b | All    | All     | All      |

|                  |       |     |              |     |     |     |
|------------------|-------|-----|--------------|-----|-----|-----|
| Operating System | Cisco | los | 15.1\3\svk4b | All | All | All |
| Operating System | Cisco | los | 15.1\3\svk4c | All | All | All |
| Operating System | Cisco | los | 15.1\3\svm3  | All | All | All |
| Operating System | Cisco | los | 15.1\3\svn2  | All | All | All |
| Operating System | Cisco | los | 15.1\3\svo1  | All | All | All |
| Operating System | Cisco | los | 15.1\3\svo2  | All | All | All |
| Operating System | Cisco | los | 15.1\3\svo3  | All | All | All |
| Operating System | Cisco | los | 15.1\3\svo4  | All | All | All |
| Operating System | Cisco | los | 15.1\3\svp1  | All | All | All |
| Operating System | Cisco | los | 15.1\3\svp2  | All | All | All |
| Operating System | Cisco | los | 15.1\4\m12c  | All | All | All |
| Operating System | Cisco | los | 15.2(3)ea1   | All | All | All |
| Operating System | Cisco | los | 15.2(4a)ea5  | All | All | All |
| Operating System | Cisco | los | 15.2\3\ea1   | All | All | All |
| Operating System | Cisco | los | 15.2\4a\ea5  | All | All | All |
| Operating System | Cisco | los | 15.3(3)ja1n  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd    | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd11  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd12  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd13  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd14  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd2   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd3   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd4   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd5   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd6   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd7   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd8   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd9   | All | All | All |
| Operating System | Cisco | los | 15.3(3)je    | All | All | All |
| Operating System | Cisco | los | 15.3(3)jf    | All | All | All |
| Operating System | Cisco | los | 15.3(3)jf1   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jf2   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jf35  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jf4   | All | All | All |

|                  |       |     |             |     |     |     |
|------------------|-------|-----|-------------|-----|-----|-----|
| Operating System | Cisco | los | 15.3(3)jf5  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jg   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jg1  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jh   | All | All | All |
| Operating System | Cisco | los | 15.3(3)ji   | All | All | All |
| Operating System | Cisco | los | 15.3(3)ji2  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jnp  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jnp1 | All | All | All |
| Operating System | Cisco | los | 15.3(3)jnp3 | All | All | All |
| Operating System | Cisco | los | 15.3(3)jpb  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jpb1 | All | All | All |
| Operating System | Cisco | los | 15.3(3)jpc  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jpc1 | All | All | All |
| Operating System | Cisco | los | 15.3(3)jpc2 | All | All | All |
| Operating System | Cisco | los | 15.3(3)jpc3 | All | All | All |
| Operating System | Cisco | los | 15.3(3)jpc5 | All | All | All |
| Operating System | Cisco | los | 15.3(3)jpd  | All | All | All |
| Operating System | Cisco | los | 15.3(3)ja1n | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd11 | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd12 | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd13 | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd14 | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd2  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd3  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd4  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd5  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd6  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd7  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd8  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jd9  | All | All | All |
| Operating System | Cisco | los | 15.3(3)je   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jf   | All | All | All |
| Operating System | Cisco | los | 15.3(3)jf1  | All | All | All |
| Operating System | Cisco | los | 15.3(3)jf2  | All | All | All |
| Operating System | Cisco | los | 15.3(3)kf5  | All | All | All |

|                  |       |     |              |     |     |     |
|------------------|-------|-----|--------------|-----|-----|-----|
| Operating System | Cisco | ios | 15.3\3\jtf3b | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtf4  | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtf5  | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtg   | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtg1  | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jth   | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jti   | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jti2  | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtnp  | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtnp1 | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtnp3 | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtjb  | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtjb1 | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtjc  | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtjc1 | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtjc2 | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtjc3 | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtjc5 | All | All | All |
| Operating System | Cisco | ios | 15.3\3\jtjd  | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m     | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m0a   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m1    | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m2    | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m2a   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m3    | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m4    | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m4a   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m4b   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m4c   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m5    | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m5a   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s     | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s0a   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s1    | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s1a   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s2    | All | All | All |

|                  |       |     |             |     |     |     |
|------------------|-------|-----|-------------|-----|-----|-----|
| Operating System | Cisco | ios | 15.5(3)s3   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s4   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s5   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)sn   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)sn0a | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m    | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m0a  | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m1   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m2   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m2a  | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m3   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m4   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m4a  | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m4b  | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m4c  | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m5   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)m5a  | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s    | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s0a  | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s1   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s1a  | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s2   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s3   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s4   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)s5   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)sn   | All | All | All |
| Operating System | Cisco | ios | 15.5(3)sn0a | All | All | All |
| Operating System | Cisco | ios | 15.6(1)s    | All | All | All |
| Operating System | Cisco | ios | 15.6(1)s1   | All | All | All |
| Operating System | Cisco | ios | 15.6(1)s2   | All | All | All |
| Operating System | Cisco | ios | 15.6(1)s3   | All | All | All |
| Operating System | Cisco | ios | 15.6(1)s4   | All | All | All |
| Operating System | Cisco | ios | 15.6(1)sn   | All | All | All |
| Operating System | Cisco | ios | 15.6(1)sn1  | All | All | All |
| Operating System | Cisco | ios | 15.6(1)sn2  | All | All | All |

|                  |       |     |             |     |     |     |
|------------------|-------|-----|-------------|-----|-----|-----|
| Operating System | Cisco | ios | 15.6(1)sn3  | All | All | All |
| Operating System | Cisco | ios | 15.6(1)t    | All | All | All |
| Operating System | Cisco | ios | 15.6(1)t0a  | All | All | All |
| Operating System | Cisco | ios | 15.6(1)t1   | All | All | All |
| Operating System | Cisco | ios | 15.6(1)t2   | All | All | All |
| Operating System | Cisco | ios | 15.6(2)s    | All | All | All |
| Operating System | Cisco | ios | 15.6(2)s1   | All | All | All |
| Operating System | Cisco | ios | 15.6(2)s2   | All | All | All |
| Operating System | Cisco | ios | 15.6(2)s3   | All | All | All |
| Operating System | Cisco | ios | 15.6(2)s4   | All | All | All |
| Operating System | Cisco | ios | 15.6(2)sn   | All | All | All |
| Operating System | Cisco | ios | 15.6(2)sp3b | All | All | All |
| Operating System | Cisco | ios | 15.6(2)t    | All | All | All |
| Operating System | Cisco | ios | 15.6(2)t0a  | All | All | All |
| Operating System | Cisco | ios | 15.6(2)t1   | All | All | All |
| Operating System | Cisco | ios | 15.6(2)t2   | All | All | All |
| Operating System | Cisco | ios | 15.6(3)m    | All | All | All |
| Operating System | Cisco | ios | 15.6(3)m0a  | All | All | All |
| Operating System | Cisco | ios | 15.6(3)m1   | All | All | All |
| Operating System | Cisco | ios | 15.6(3)m1a  | All | All | All |
| Operating System | Cisco | ios | 15.6(3)m1b  | All | All | All |
| Operating System | Cisco | ios | 15.6(3)sn   | All | All | All |
| Operating System | Cisco | ios | 15.6(4)sn   | All | All | All |
| Operating System | Cisco | ios | 15.6(5)sn   | All | All | All |
| Operating System | Cisco | ios | 15.6(6)sn   | All | All | All |
| Operating System | Cisco | ios | 15.6(7)sn   | All | All | All |
| Operating System | Cisco | ios | 15.6\1)s    | All | All | All |
| Operating System | Cisco | ios | 15.6\1)s1   | All | All | All |
| Operating System | Cisco | ios | 15.6\1)s2   | All | All | All |
| Operating System | Cisco | ios | 15.6\1)s3   | All | All | All |
| Operating System | Cisco | ios | 15.6\1)s4   | All | All | All |
| Operating System | Cisco | ios | 15.6\1)sn   | All | All | All |
| Operating System | Cisco | ios | 15.6\1)sn1  | All | All | All |
| Operating System | Cisco | ios | 15.6\1)sn2  | All | All | All |
| Operating System | Cisco | ios | 15.6\1)sn3  | All | All | All |
| Operating System | Cisco | ios | 15.6\1)sn4  | All | All | All |

|                  |       |     |               |     |     |     |
|------------------|-------|-----|---------------|-----|-----|-----|
| Operating System | Cisco | ios | 15.6\1\yt     | All | All | All |
| Operating System | Cisco | ios | 15.6\1\yt0a   | All | All | All |
| Operating System | Cisco | ios | 15.6\1\yt1    | All | All | All |
| Operating System | Cisco | ios | 15.6\1\yt2    | All | All | All |
| Operating System | Cisco | ios | 15.6\2\ys     | All | All | All |
| Operating System | Cisco | ios | 15.6\2\ys1    | All | All | All |
| Operating System | Cisco | ios | 15.6\2\ys2    | All | All | All |
| Operating System | Cisco | ios | 15.6\2\ys3    | All | All | All |
| Operating System | Cisco | ios | 15.6\2\ys4    | All | All | All |
| Operating System | Cisco | ios | 15.6\2\ysn    | All | All | All |
| Operating System | Cisco | ios | 15.6\2\ysp3b  | All | All | All |
| Operating System | Cisco | ios | 15.6\2\yt     | All | All | All |
| Operating System | Cisco | ios | 15.6\2\yt0a   | All | All | All |
| Operating System | Cisco | ios | 15.6\2\yt1    | All | All | All |
| Operating System | Cisco | ios | 15.6\2\yt2    | All | All | All |
| Operating System | Cisco | ios | 15.6\3\ym     | All | All | All |
| Operating System | Cisco | ios | 15.6\3\ym0a   | All | All | All |
| Operating System | Cisco | ios | 15.6\3\ym1    | All | All | All |
| Operating System | Cisco | ios | 15.6\3\ym1a   | All | All | All |
| Operating System | Cisco | ios | 15.6\3\ym1b   | All | All | All |
| Operating System | Cisco | ios | 15.6\3\ysn    | All | All | All |
| Operating System | Cisco | ios | 15.6\4\ysn    | All | All | All |
| Operating System | Cisco | ios | 15.6\5\ysn    | All | All | All |
| Operating System | Cisco | ios | 15.6\6\ysn    | All | All | All |
| Operating System | Cisco | ios | 15.6\7\ysn    | All | All | All |
| Operating System | Cisco | ios | 15.1\2\ysg8a  | All | All | All |
| Operating System | Cisco | ios | 15.1\3\ysvg3d | All | All | All |
| Operating System | Cisco | ios | 15.1\3\ysvi1b | All | All | All |
| Operating System | Cisco | ios | 15.1\3\ysvk4b | All | All | All |
| Operating System | Cisco | ios | 15.1\3\ysvk4c | All | All | All |
| Operating System | Cisco | ios | 15.1\3\ysvm3  | All | All | All |
| Operating System | Cisco | ios | 15.1\3\ysvn2  | All | All | All |
| Operating System | Cisco | ios | 15.1\3\ysvo1  | All | All | All |
| Operating System | Cisco | ios | 15.1\3\ysvo2  | All | All | All |
| Operating System | Cisco | ios | 15.1\3\ysvo3  | All | All | All |
| Operating System | Cisco | ios | 15.1\3\ysvo4  | All | All | All |

|                  |       |     |             |     |     |     |
|------------------|-------|-----|-------------|-----|-----|-----|
| Operating System | Cisco | los | 15.1\3\svp1 | All | All | All |
| Operating System | Cisco | los | 15.1\3\svp2 | All | All | All |
| Operating System | Cisco | los | 15.1\4\m12c | All | All | All |
| Operating System | Cisco | los | 15.2\3\ea1  | All | All | All |
| Operating System | Cisco | los | 15.2\4a\ea5 | All | All | All |
| Operating System | Cisco | los | 15.3\3\ja1n | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd   | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd11 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd12 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd13 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd14 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd2  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd3  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd4  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd5  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd6  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd7  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd8  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jd9  | All | All | All |
| Operating System | Cisco | los | 15.3\3\je   | All | All | All |
| Operating System | Cisco | los | 15.3\3\jf   | All | All | All |
| Operating System | Cisco | los | 15.3\3\jf1  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jf2  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jf35 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jf4  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jf5  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jg   | All | All | All |
| Operating System | Cisco | los | 15.3\3\jg1  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jh   | All | All | All |
| Operating System | Cisco | los | 15.3\3\ji   | All | All | All |
| Operating System | Cisco | los | 15.3\3\ji2  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jnp  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jnp1 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jnp3 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jpb  | All | All | All |

|                  |       |     |             |     |     |     |
|------------------|-------|-----|-------------|-----|-----|-----|
| Operating System | Cisco | los | 15.3\3\jpb1 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jpc  | All | All | All |
| Operating System | Cisco | los | 15.3\3\jpc1 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jpc2 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jpc3 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jpc5 | All | All | All |
| Operating System | Cisco | los | 15.3\3\jpd  | All | All | All |
| Operating System | Cisco | los | 15.5\3\m    | All | All | All |
| Operating System | Cisco | los | 15.5\3\m0a  | All | All | All |
| Operating System | Cisco | los | 15.5\3\m1   | All | All | All |
| Operating System | Cisco | los | 15.5\3\m2   | All | All | All |
| Operating System | Cisco | los | 15.5\3\m2a  | All | All | All |
| Operating System | Cisco | los | 15.5\3\m3   | All | All | All |
| Operating System | Cisco | los | 15.5\3\m4   | All | All | All |
| Operating System | Cisco | los | 15.5\3\m4a  | All | All | All |
| Operating System | Cisco | los | 15.5\3\m4b  | All | All | All |
| Operating System | Cisco | los | 15.5\3\m4c  | All | All | All |
| Operating System | Cisco | los | 15.5\3\m5   | All | All | All |
| Operating System | Cisco | los | 15.5\3\m5a  | All | All | All |
| Operating System | Cisco | los | 15.5\3\s    | All | All | All |
| Operating System | Cisco | los | 15.5\3\s0a  | All | All | All |
| Operating System | Cisco | los | 15.5\3\s1   | All | All | All |
| Operating System | Cisco | los | 15.5\3\s1a  | All | All | All |
| Operating System | Cisco | los | 15.5\3\s2   | All | All | All |
| Operating System | Cisco | los | 15.5\3\s3   | All | All | All |
| Operating System | Cisco | los | 15.5\3\s4   | All | All | All |
| Operating System | Cisco | los | 15.5\3\s5   | All | All | All |
| Operating System | Cisco | los | 15.5\3\sn   | All | All | All |
| Operating System | Cisco | los | 15.5\3\sn0a | All | All | All |
| Operating System | Cisco | los | 15.6\1\s    | All | All | All |
| Operating System | Cisco | los | 15.6\1\s1   | All | All | All |
| Operating System | Cisco | los | 15.6\1\s2   | All | All | All |
| Operating System | Cisco | los | 15.6\1\s3   | All | All | All |
| Operating System | Cisco | los | 15.6\1\s4   | All | All | All |
| Operating System | Cisco | los | 15.6\1\sn   | All | All | All |
| Operating System | Cisco | los | 15.6\1\sn1  | All | All | All |

|                  |       |        |                 |     |     |     |
|------------------|-------|--------|-----------------|-----|-----|-----|
| Operating System | Cisco | ios    | 15.6\\(1\\)sn1  | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(1\\)sn2  | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(1\\)sn3  | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(1\\)t    | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(1\\)t0a  | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(1\\)t1   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(1\\)t2   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(2\\)s    | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(2\\)s1   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(2\\)s2   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(2\\)s3   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(2\\)s4   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(2\\)sn   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(2\\)sp3b | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(2\\)t    | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(2\\)t0a  | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(2\\)t1   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(2\\)t2   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(3\\)m    | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(3\\)m0a  | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(3\\)m1   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(3\\)m1a  | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(3\\)m1b  | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(3\\)sn   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(4\\)sn   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(5\\)sn   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(6\\)sn   | All | All | All |
| Operating System | Cisco | ios    | 15.6\\(7\\)sn   | All | All | All |
| Operating System | Cisco | ios Xe | All             | All | All | All |
| Operating System | Cisco | ios Xe | 16.2.1          | All | All | All |
| Operating System | Cisco | ios Xe | 16.2.2          | All | All | All |
| Operating System | Cisco | ios Xe | 16.3.1          | All | All | All |
| Operating System | Cisco | ios Xe | 16.3.1a         | All | All | All |
| Operating System | Cisco | ios Xe | 16.3.2          | All | All | All |
| Operating System | Cisco | ios Xe | 16.3.3          | All | All | All |
| Operating System | Cisco | ios Xe | 16.3.4          | All | All | All |

|                  |       |        |           |     |     |     |
|------------------|-------|--------|-----------|-----|-----|-----|
| Operating System | Cisco | ios Xe | 16.4.1    | All | All | All |
| Operating System | Cisco | ios Xe | 16.4.2    | All | All | All |
| Operating System | Cisco | ios Xe | 16.4.3    | All | All | All |
| Operating System | Cisco | ios Xe | 16.5.1    | All | All | All |
| Operating System | Cisco | ios Xe | 16.5.1a   | All | All | All |
| Operating System | Cisco | ios Xe | 16.5.1b   | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.0as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.0bs  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.0cs  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.0s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.1as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.1s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.2as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.2bs  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.2s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.3as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.3s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4bs  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4cs  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4ds  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4es  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4gs  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.5as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.5s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.17.0s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.17.1as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.17.1s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.17.3s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.17.4s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.0as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.0s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.0sp  | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.1asp | All | All | All |

|                  |       |        |           |     |     |     |
|------------------|-------|--------|-----------|-----|-----|-----|
| Operating System | Cisco | los Xe | 3.18.1bsp | All | All | All |
| Operating System | Cisco | los Xe | 3.18.1csp | All | All | All |
| Operating System | Cisco | los Xe | 3.18.1gsp | All | All | All |
| Operating System | Cisco | los Xe | 3.18.1hsp | All | All | All |
| Operating System | Cisco | los Xe | 3.18.1isp | All | All | All |
| Operating System | Cisco | los Xe | 3.18.1s   | All | All | All |
| Operating System | Cisco | los Xe | 3.18.1sp  | All | All | All |
| Operating System | Cisco | los Xe | 3.18.2asp | All | All | All |
| Operating System | Cisco | los Xe | 3.18.2s   | All | All | All |
| Operating System | Cisco | los Xe | 3.18.2sp  | All | All | All |
| Operating System | Cisco | los Xe | 3.18.3s   | All | All | All |
| Operating System | Cisco | los Xe | 3.18.4s   | All | All | All |
| Operating System | Cisco | los Xe | 3.2.0ja   | All | All | All |
| Operating System | Cisco | los Xe | All       | All | All | All |
| Operating System | Cisco | los Xe | 16.2.1    | All | All | All |
| Operating System | Cisco | los Xe | 16.2.2    | All | All | All |
| Operating System | Cisco | los Xe | 16.3.1    | All | All | All |
| Operating System | Cisco | los Xe | 16.3.1a   | All | All | All |
| Operating System | Cisco | los Xe | 16.3.2    | All | All | All |
| Operating System | Cisco | los Xe | 16.3.3    | All | All | All |
| Operating System | Cisco | los Xe | 16.3.4    | All | All | All |
| Operating System | Cisco | los Xe | 16.4.1    | All | All | All |
| Operating System | Cisco | los Xe | 16.4.2    | All | All | All |
| Operating System | Cisco | los Xe | 16.4.3    | All | All | All |
| Operating System | Cisco | los Xe | 16.5.1    | All | All | All |
| Operating System | Cisco | los Xe | 16.5.1a   | All | All | All |
| Operating System | Cisco | los Xe | 16.5.1b   | All | All | All |
| Operating System | Cisco | los Xe | 3.16.0as  | All | All | All |
| Operating System | Cisco | los Xe | 3.16.0bs  | All | All | All |
| Operating System | Cisco | los Xe | 3.16.0cs  | All | All | All |
| Operating System | Cisco | los Xe | 3.16.0s   | All | All | All |
| Operating System | Cisco | los Xe | 3.16.1as  | All | All | All |
| Operating System | Cisco | los Xe | 3.16.1s   | All | All | All |
| Operating System | Cisco | los Xe | 3.16.2as  | All | All | All |
| Operating System | Cisco | los Xe | 3.16.2bs  | All | All | All |
| Operating System | Cisco | los Xe | 3.16.2s   | All | All | All |

| Operating System | Cisco | ios Xe | 3.16.2s   | All | All | All |
|------------------|-------|--------|-----------|-----|-----|-----|
| Operating System | Cisco | ios Xe | 3.16.3as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.3s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4bs  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4cs  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4ds  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4es  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4gs  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.4s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.5as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.16.5s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.17.0s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.17.1as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.17.1s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.17.3s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.17.4s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.0as  | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.0s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.0sp  | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.1asp | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.1bsp | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.1csp | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.1gsp | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.1hsp | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.1isp | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.1s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.1sp  | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.2asp | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.2s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.2sp  | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.3s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.18.4s   | All | All | All |
| Operating System | Cisco | ios Xe | 3.2.0ja   | All | All | All |

| Reference                                                                                             | Source  | Link                                                            |
|-------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------|
| Cisco IOS and IOS XE Software Network-Based Application Recognition Denial of Service Vulnerabilities | CISCO   | <a href="https://tools.cisco.com">tools.cisco.com</a>           |
| Cisco IOS and IOS XE Software Multiple Denial of Service Vulnerabilities                              | BID     | <a href="https://www.securityfocus.com">www.securityfocus.c</a> |
| CVE Program record                                                                                    | CVE.ORG | <a href="https://www.cve.org">www.cve.org</a>                   |
| NVD vulnerability detail                                                                              | NVD     | <a href="https://nvd.nist.gov">nvd.nist.gov</a>                 |

No vendor comments have been submitted for this CVE.

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