



# CVE-2019-1736

Published on: 09/22/2020 12:00:00 AM UTC

Last Modified on: 03/23/2021 11:27:48 PM UTC

## CVE-2019-1736 - advisory for cisco-sa-20200219-ucs-boot-bypass

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:30/AV:P/AC:L/PR:H/UI:N/S:U/C:H/I:H/A:H



Certain versions of [Fmc1000-k9 Bios](#) from [Cisco](#) contain the following vulnerability:

A vulnerability in the firmware of the Cisco UCS C-Series Rack Servers could allow an authenticated, physical attacker to bypass Unified Extensible Firmware Interface (UEFI) Secure Boot validation checks and load a compromised software image on an affected device. The vulnerability is due to improper validation of the server firmware

upgrade images. An attacker could exploit this vulnerability by installing a server firmware version that would allow the attacker to disable UEFI Secure Boot. A successful exploit could allow the attacker to bypass the signature validation checks that are done by UEFI Secure Boot technology and load a compromised software image on the affected device. A compromised software image is any software image that has not been digitally signed by Cisco.

CVE-2019-1736 has been assigned by [Cisco](#) psirt@cisco.com to track the vulnerability - currently rated as **MEDIUM** severity.

The Cisco Product Security Incident Response Team (PSIRT) is not aware of any public announcements or malicious use of the vulnerability that is described in this advisory.

Affected Vendor/Software: [Cisco](#) - **Cisco Identity Services Engine Software** version n/a

CVSS3 Score: **6.6 - MEDIUM**

| Attack Vector    | Attack Complexity      | Privileges Required | User Interaction    |
|------------------|------------------------|---------------------|---------------------|
| <b>PHYSICAL</b>  | <b>LOW</b>             | <b>LOW</b>          | <b>NONE</b>         |
| Scope            | Confidentiality Impact | Integrity Impact    | Availability Impact |
| <b>UNCHANGED</b> | <b>HIGH</b>            | <b>HIGH</b>         | <b>HIGH</b>         |

CVSS2 Score: **6.9 - MEDIUM**

| Access Vector | Access Complexity | Authentication |
|---------------|-------------------|----------------|
|---------------|-------------------|----------------|

|                        |                  |                     |
|------------------------|------------------|---------------------|
| LOCAL                  | MEDIUM           | NONE                |
| Confidentiality Impact | Integrity Impact | Availability Impact |
| COMPLETE               | COMPLETE         | COMPLETE            |

### CVE References

| Description                                                             | Tags                                                                                        | Link                                                                                                                                                                                     |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Multiple Cisco UCS-Based Products UEFI Secure Boot Bypass Vulnerability | <div>Patch</div> <div>Vendor Advisory</div> <div>tools.cisco.com</div> <div>text/html</div> |  <a href="#">CISCO 20200219 Multiple Cisco UCS-Based Products UEFI Secure Boot Bypass Vulnerability</a> |

By selecting these links, you may be leaving CVEreport webspace. We have provided these links to other websites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other websites that are more appropriate for your purpose. CVEreport does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, CVEreport does not endorse any commercial products that may be mentioned on these sites. Please address comments about any linked pages to [comment@cve.report](mailto:comment@cve.report).

There are currently no QIDs associated with this CVE

### Known Affected Configurations (CPE V2.3)

| Type             | Vendor | Product                  | Version    | Update | Edition | Language |
|------------------|--------|--------------------------|------------|--------|---------|----------|
| Operating System | Cisco  | Fmc1000-k9 Bios          | All        | All    | All     | All      |
| Operating System | Cisco  | Fmc1000-k9 Bios          | All        | All    | All     | All      |
| Operating System | Cisco  | Fmc1000-k9 Firmware      | All        | All    | All     | All      |
| Operating System | Cisco  | Fmc1000-k9 Firmware      | All        | All    | All     | All      |
| Operating System | Cisco  | Fmc2500-k9 Bios          | All        | All    | All     | All      |
| Operating System | Cisco  | Fmc2500-k9 Bios          | All        | All    | All     | All      |
| Operating System | Cisco  | Fmc2500-k9 Firmware      | All        | All    | All     | All      |
| Operating System | Cisco  | Fmc2500-k9 Firmware      | All        | All    | All     | All      |
| Operating System | Cisco  | Fmc4500-k9 Bios          | All        | All    | All     | All      |
| Operating System | Cisco  | Fmc4500-k9 Bios          | All        | All    | All     | All      |
| Operating System | Cisco  | Fmc4500-k9 Firmware      | All        | All    | All     | All      |
| Operating System | Cisco  | Fmc4500-k9 Firmware      | All        | All    | All     | All      |
| Application      | Cisco  | Identity Services Engine | 2.4(0.357) | All    | All     | All      |

| Table 1: Cisco Identity Services Engine (ISE) Software Versions and Support Matrix |       |                          |               |     |     |     |
|------------------------------------------------------------------------------------|-------|--------------------------|---------------|-----|-----|-----|
| Application                                                                        | Cisco | Identity Services Engine | 2.4\ (0.357\) | All | All | All |
| Application                                                                        | Cisco | Identity Services Engine | 2.6(0.156)    | All | All | All |
| Application                                                                        | Cisco | Identity Services Engine | 2.6\ (0.156\) | All | All | All |
| Application                                                                        | Cisco | Identity Services Engine | 2.4\ (0.357\) | All | All | All |
| Application                                                                        | Cisco | Identity Services Engine | 2.6\ (0.156\) | All | All | All |
| Operating System                                                                   | Cisco | Sns-3515-k9 Bios         | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3515-k9 Bios         | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3515-k9 Firmware     | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3515-k9 Firmware     | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3595-k9 Bios         | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3595-k9 Bios         | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3595-k9 Firmware     | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3595-k9 Firmware     | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3615-k9 Bios         | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3615-k9 Bios         | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3615-k9 Firmware     | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3615-k9 Firmware     | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3655-k9 Bios         | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3655-k9 Bios         | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3655-k9 Firmware     | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3655-k9 Firmware     | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3695-k9 Bios         | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3695-k9 Bios         | All           | All | All | All |
| Operating System                                                                   | Cisco | Sns-3695-k9 Firmware     | All           | All | All | All |
| Operating                                                                          | Cisco | Sns-3695-k9 Firmware     | All           | All | All | All |

|                                                                            |       |                          |             |     |     |     |
|----------------------------------------------------------------------------|-------|--------------------------|-------------|-----|-----|-----|
|                                                                            |       |                          |             |     |     |     |
| System                                                                     | Cisco | Tg5004-k9-rf Bios        | All         | All | All | All |
| Operating System                                                           | Cisco | Tg5004-k9-rf Bios        | All         | All | All | All |
| Operating System                                                           | Cisco | Tg5004-k9-rf Firmware    | All         | All | All | All |
| Operating System                                                           | Cisco | Tg5004-k9-rf Firmware    | All         | All | All | All |
| Operating System                                                           | Cisco | Tg5004-k9 Bios           | All         | All | All | All |
| Operating System                                                           | Cisco | Tg5004-k9 Bios           | All         | All | All | All |
| Operating System                                                           | Cisco | Tg5004-k9 Firmware       | All         | All | All | All |
| Operating System                                                           | Cisco | Tg5004-k9 Firmware       | All         | All | All | All |
| Application                                                                | Cisco | Unified Computing System | 3.2(3h)c    | All | All | All |
| Application                                                                | Cisco | Unified Computing System | 3.2\{(3h\)c | All | All | All |
| Application                                                                | Cisco | Unified Computing System | 3.2\{(3h\)c | All | All | All |
| cpe:2.3:o:cisco:fmc1000-k9_bios:*.~.*~.*~.*~.*~.*:                         |       |                          |             |     |     |     |
| cpe:2.3:o:cisco:fmc1000-k9_bios:*.~.*~.*~.*~.*~.*:                         |       |                          |             |     |     |     |
| cpe:2.3:o:cisco:fmc1000-k9_firmware:*.~.*~.*~.*~.*~.*:                     |       |                          |             |     |     |     |
| cpe:2.3:o:cisco:fmc1000-k9_firmware:*.~.*~.*~.*~.*~.*:                     |       |                          |             |     |     |     |
| cpe:2.3:o:cisco:fmc2500-k9_bios:*.~.*~.*~.*~.*~.*:                         |       |                          |             |     |     |     |
| cpe:2.3:o:cisco:fmc2500-k9_bios:*.~.*~.*~.*~.*~.*:                         |       |                          |             |     |     |     |
| cpe:2.3:o:cisco:fmc2500-k9_firmware:*.~.*~.*~.*~.*~.*:                     |       |                          |             |     |     |     |
| cpe:2.3:o:cisco:fmc2500-k9_firmware:*.~.*~.*~.*~.*~.*:                     |       |                          |             |     |     |     |
| cpe:2.3:o:cisco:fmc4500-k9_bios:*.~.*~.*~.*~.*~.*:                         |       |                          |             |     |     |     |
| cpe:2.3:o:cisco:fmc4500-k9_bios:*.~.*~.*~.*~.*~.*:                         |       |                          |             |     |     |     |
| cpe:2.3:o:cisco:fmc4500-k9_firmware:*.~.*~.*~.*~.*~.*:                     |       |                          |             |     |     |     |
| cpe:2.3:o:cisco:fmc4500-k9_firmware:*.~.*~.*~.*~.*~.*:                     |       |                          |             |     |     |     |
| cpe:2.3:a:cisco:identity_services_engine:2.4(0.357):*.~.*~.*~.*~.*~.*:     |       |                          |             |     |     |     |
| cpe:2.3:a:cisco:identity_services_engine:2.4\{(0.357)\}:*.~.*~.*~.*~.*~.*: |       |                          |             |     |     |     |
| cpe:2.3:a:cisco:identity_services_engine:2.6(0.156):*.~.*~.*~.*~.*~.*:     |       |                          |             |     |     |     |

|                                                                 |
|-----------------------------------------------------------------|
| cpe:2.3:a:cisco:identity_services_engine:2.6\0.156\):*:*:*:*:*: |
| cpe:2.3:a:cisco:identity_services_engine:2.4\0.357\):*:*:*:*:*: |
| cpe:2.3:a:cisco:identity_services_engine:2.6\0.156\):*:*:*:*:*: |
| cpe:2.3:o:cisco:sns-3515-k9_bios:*:*:*:*:*:                     |
| cpe:2.3:o:cisco:sns-3515-k9_bios:*:*:*:*:*:                     |
| cpe:2.3:o:cisco:sns-3515-k9_firmware:*:*:*:*:*:                 |
| cpe:2.3:o:cisco:sns-3515-k9_firmware:*:*:*:*:*:                 |
| cpe:2.3:o:cisco:sns-3595-k9_bios:*:*:*:*:*:                     |
| cpe:2.3:o:cisco:sns-3595-k9_bios:*:*:*:*:*:                     |
| cpe:2.3:o:cisco:sns-3595-k9_firmware:*:*:*:*:*:                 |
| cpe:2.3:o:cisco:sns-3595-k9_firmware:*:*:*:*:*:                 |
| cpe:2.3:o:cisco:sns-3615-k9_bios:*:*:*:*:*:                     |
| cpe:2.3:o:cisco:sns-3615-k9_bios:*:*:*:*:*:                     |
| cpe:2.3:o:cisco:sns-3615-k9_firmware:*:*:*:*:*:                 |
| cpe:2.3:o:cisco:sns-3615-k9_firmware:*:*:*:*:*:                 |
| cpe:2.3:o:cisco:sns-3655-k9_bios:*:*:*:*:*:                     |
| cpe:2.3:o:cisco:sns-3655-k9_bios:*:*:*:*:*:                     |
| cpe:2.3:o:cisco:sns-3655-k9_firmware:*:*:*:*:*:                 |
| cpe:2.3:o:cisco:sns-3655-k9_firmware:*:*:*:*:*:                 |
| cpe:2.3:o:cisco:sns-3695-k9_bios:*:*:*:*:*:                     |
| cpe:2.3:o:cisco:sns-3695-k9_bios:*:*:*:*:*:                     |
| cpe:2.3:o:cisco:sns-3695-k9_firmware:*:*:*:*:*:                 |
| cpe:2.3:o:cisco:sns-3695-k9_firmware:*:*:*:*:*:                 |
| cpe:2.3:o:cisco:tg5004-k9-rf_bios:*:*:*:*:*:                    |
| cpe:2.3:o:cisco:tg5004-k9-rf_bios:*:*:*:*:*:                    |
| cpe:2.3:o:cisco:tg5004-k9-rf_firmware:*:*:*:*:*:                |
| cpe:2.3:o:cisco:tg5004-k9-rf_firmware:*:*:*:*:*:                |
| cpe:2.3:o:cisco:tg5004-k9_bios:*:*:*:*:*:                       |
| cpe:2.3:o:cisco:tg5004-k9_bios:*:*:*:*:*:                       |

|                                                                     |
|---------------------------------------------------------------------|
| cpe:2.3:o:cisco:tg5004-k9_firmware:*.*.*.*.*.*.*.*:                 |
| cpe:2.3:o:cisco:tg5004-k9_firmware:*.*.*.*.*.*.*.*:                 |
| cpe:2.3:a:cisco:unified_computing_system:3.2(3h)c:*.*.*.*.*.*.*.*:  |
| cpe:2.3:a:cisco:unified_computing_system:3.2\3h)c:*.*.*.*.*.*.*.*:  |
| cpe:2.3:a:cisco:unified_computing_system:3.2\3h)*c:*.*.*.*.*.*.*.*: |

|                                                                    |
|--------------------------------------------------------------------|
| cpe:2.3:o:cisco:tg5004-k9_firmware:*.*.*.*.*.*.*.*:                |
| cpe:2.3:o:cisco:tg5004-k9_firmware:*.*.*.*.*.*.*.*:                |
| cpe:2.3:a:cisco:unified_computing_system:3.2(3h)c:*.*.*.*.*.*.*.*: |
| cpe:2.3:a:cisco:unified_computing_system:3.2\3h)c:*.*.*.*.*.*.*.*: |
| cpe:2.3:a:cisco:unified_computing_system:3.2\3h)c:*.*.*.*.*.*.*.*: |

|                                                                    |
|--------------------------------------------------------------------|
| cpe:2.3:o:cisco:tg5004-k9_firmware:*.*.*.*.*.*.*.*:                |
| cpe:2.3:o:cisco:tg5004-k9_firmware:*.*.*.*.*.*.*.*:                |
| cpe:2.3:a:cisco:unified_computing_system:3.2(3h)c:*.*.*.*.*.*.*.*: |
| cpe:2.3:a:cisco:unified_computing_system:3.2\3h)c:*.*.*.*.*.*.*.*: |
| cpe:2.3:a:cisco:unified_computing_system:3.2\3h)c:*.*.*.*.*.*.*.*: |

|                                                                    |
|--------------------------------------------------------------------|
| cpe:2.3:o:cisco:tg5004-k9_firmware:*.*.*.*.*.*.*.*:                |
| cpe:2.3:o:cisco:tg5004-k9_firmware:*.*.*.*.*.*.*.*:                |
| cpe:2.3:a:cisco:unified_computing_system:3.2(3h)c:*.*.*.*.*.*.*.*: |
| cpe:2.3:a:cisco:unified_computing_system:3.2\3h)c:*.*.*.*.*.*.*.*: |
| cpe:2.3:a:cisco:unified_computing_system:3.2\3h)c:*.*.*.*.*.*.*.*: |

|                                                                    |
|--------------------------------------------------------------------|
| cpe:2.3:o:cisco:tg5004-k9_firmware:*.*.*.*.*.*.*.*:                |
| cpe:2.3:o:cisco:tg5004-k9_firmware:*.*.*.*.*.*.*.*:                |
| cpe:2.3:a:cisco:unified_computing_system:3.2(3h)c:*.*.*.*.*.*.*.*: |
| cpe:2.3:a:cisco:unified_computing_system:3.2\3h)c:*.*.*.*.*.*.*.*: |
| cpe:2.3:a:cisco:unified_computing_system:3.2\3h)c:*.*.*.*.*.*.*.*: |

No vendor comments have been submitted for this CVE

[← Previous ID](#)

Next ID→

© CVE.report 2023   |

Use of this information constitutes acceptance for use in an AS IS condition. There are NO warranties, implied or otherwise, with regard to this information or its use. Any use of this information is at the user's risk. It is the responsibility of user to evaluate the accuracy, completeness or usefulness of any information, opinion, advice or other content. EACH USER WILL BE SOLELY RESPONSIBLE FOR ANY consequences of his or her direct or indirect use of this web site. ALL WARRANTIES OF ANY KIND ARE EXPRESSLY DISCLAIMED. This site will NOT BE LIABLE FOR ANY DIRECT, INDIRECT or any other kind of loss.

CVE, CWE, and OVAL are registered trademarks of [The MITRE Corporation](#) and the authoritative source of CVE content is [MITRE's CVE web site](#). This site includes MITRE data granted under the following [license](#).

CVE.report and Source URL Uptime Status [status.cve.report](https://status.cve.report)