



# CVE-2020-3837

Published on: 02/27/2020 12:00:00 AM UTC

Last Modified on: 07/21/2021 11:39:00 AM UTC

## CVE-2020-3837

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

Certain versions of [Ipados](#) from [Apple](#) contain the following vulnerability:

A memory corruption issue was addressed with improved memory handling. This issue is fixed in iOS 13.3.1 and iPadOS 13.3.1, macOS Catalina 10.15.3, tvOS 13.3.1, watchOS 6.1.2. An application may be able to execute arbitrary code with kernel privileges.

CVE-2020-3837 has been assigned by [product-security@apple.com](mailto:product-security@apple.com) to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: **Apple** - iOS version < **iOS 13.3.1** and iPadOS 13.3.1

Affected Vendor/Software: **Apple** - macOS version < **macOS Catalina 10.15.3**

Affected Vendor/Software: **Apple** - tvOS version < **tvOS 13.3.1**

Affected Vendor/Software: **Apple** - watchOS version < **watchOS 6.1.2**

CVSS3 Score: **7.8 - HIGH**

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

CVSS2 Score: **9.3 - HIGH**

| Access Vector          | Access Complexity | Authentication      |
|------------------------|-------------------|---------------------|
| <b>NETWORK</b>         | <b>MEDIUM</b>     | <b>NONE</b>         |
| Confidentiality Impact | Integrity Impact  | Availability Impact |
| <b>COMPLETE</b>        | <b>COMPLETE</b>   | <b>COMPLETE</b>     |

## CVE References

| Description                                                                                                                                 | Tags                                                                                                                               | Link                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| About the security content of tvOS 13.3.1 - Apple Support                                                                                   | <a href="#">Release Notes</a><br><a href="#">Vendor Advisory</a><br><a href="#">support.apple.com</a><br><a href="#">text/html</a> |  MISC<br><a href="https://support.apple.com/HT210920">support.apple.com/HT210920</a> |
| About the security content of iOS 13.3.1 and iPadOS 13.3.1 - Apple Support                                                                  | <a href="#">Release Notes</a><br><a href="#">Vendor Advisory</a><br><a href="#">support.apple.com</a><br><a href="#">text/html</a> |  MISC<br><a href="https://support.apple.com/HT210918">support.apple.com/HT210918</a> |
| About the security content of watchOS 6.1.2 - Apple Support                                                                                 | <a href="#">Release Notes</a><br><a href="#">Vendor Advisory</a><br><a href="#">support.apple.com</a><br><a href="#">text/html</a> |  MISC<br><a href="https://support.apple.com/HT210921">support.apple.com/HT210921</a> |
| About the security content of macOS Catalina 10.15.3, Security Update 2020-001 Mojave, Security Update 2020-001 High Sierra - Apple Support | <a href="#">Release Notes</a><br><a href="#">Vendor Advisory</a><br><a href="#">support.apple.com</a><br><a href="#">text/html</a> |  MISC<br><a href="https://support.apple.com/HT210919">support.apple.com/HT210919</a> |

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There are currently no QIDs associated with this CVE

## Known Affected Configurations (CPE V2.3)

| Type             | Vendor                | Product                   | Version | Update | Edition | Language |
|------------------|-----------------------|---------------------------|---------|--------|---------|----------|
| Operating System | <a href="#">Apple</a> | <a href="#">Ipados</a>    | All     | All    | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Ipados</a>    | All     | All    | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Iphone Os</a> | All     | All    | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Iphone Os</a> | All     | All    | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Mac Os X</a>  | All     | All    | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Mac Os X</a>  | All     | All    | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Tvos</a>      | All     | All    | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Tvos</a>      | All     | All    | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Watchos</a>   | All     | All    | All     | All      |
| Operating System | <a href="#">Apple</a> | <a href="#">Watchos</a>   | All     | All    | All     | All      |

```
cpe:2.3:o:apple:ipados:*:*:*:*:*:*:
```

```
cpe:2.3:o:apple:ipados:*:*:*:*:*:*:
```

```
cpe:2.3:o:apple:iphone os:*. *. *. *. *. *. *. *. *
```

```
cpe:2.3:o:apple:iphone os:*.:.:.:.:.:.:.:
```

```
cpe:2.3:o:apple:mac os x:*.:*:*:*:*:*:
```

```
cpe:2.3:o:apple:mac os x:*.:*:*:*:*:*:
```

```
cpe:2.3:o:apple:tvos:*:*:*:*:*:*:
```

```
cpe:2.3:o:apple:tvos:*.:*:*:*:*:*.*
```

```
cpe:2.3:o:apple:watchos:*:*:*:*:*:*:
```

```
cpe:2.3:o:apple:watchos:*.:*:*:*:*:*:
```

## Social Mentions

| Source                                                                                             | Title                                                                                                                                                                                                                  | Posted (UTC)           |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
|  @ipssignatures | It's new to me that Astaro has a protection/signature/rule for the vulnerability CVE-2020-3837....<br><a href="https://twitter.com/i/web/status/1391111111111111111">twitter.com/i/web/status/1...</a>                 | 2022-08-03<br>04:02:01 |
|  @ipssignatures | It is the first time for me to know a protection/signature/rule for the vulnerability CVE-2020-3837.<br>#Sexeeebnuey62w                                                                                                | 2022-08-03<br>04:02:01 |
|  @inthewildio   | Also here is a list: CVE-2018-4344 CVE-2019-8605 CVE-2020-3837 CVE-2020-9907 CVE-2021-4034 CVE-2022-29499 CVE-2016... <a href="https://twitter.com/i/web/status/1391111111111111111">twitter.com/i/web/status/1...</a> | 2022-08-07<br>20:16:07 |
|  /r/SecurityIT  | <a href="#">Spyware made in italy</a>                                                                                                                                                                                  | 2022-06-18<br>00:21:56 |

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