



# CVE-2019-10481

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## CVE-2019-10481

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

Certain versions of [Apq8096au](#) from [Qualcomm](#) contain the following vulnerability:

Out of bound access occurs while handling the WMI FW event due to lack of check of buffer argument which comes directly from the WLAN FW in Snapdragon Auto, Snapdragon Consumer Electronics Connectivity, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wired

Infrastructure and Networking in APQ8096AU, IPQ4019, IPQ8064, IPQ8074, MDM9607, MSM8996AU, QCA6574AU, QCA8081, QCN7605, SDX55, SM6150, SM7150, SM8150

CVE-2019-10481 has been assigned by [Q](#) product-security@qualcomm.com to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: [Q](#) Qualcomm, Inc. - Snapdragon Auto, Snapdragon Consumer Electronics Connectivity, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wired Infrastructure and Networking version APQ8096AU, IPQ4019, IPQ8064, IPQ8074, MDM9607, MSM8996AU, QCA6574AU, QCA8081, QCN7605, SDX55, SM6150, SM7150, SM8150

CVSS3 Score: **7.8 - HIGH**

| Attack Vector    | Attack Complexity      | Privileges Required | User Interaction    |
|------------------|------------------------|---------------------|---------------------|
| <b>LOCAL</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: **7.2 - HIGH**

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

## CVE References

| Description                                | Tags                                                                                                                      | Link                                                                                               |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| December 2019 Security Bulletin   Qualcomm | <a href="#">Patch</a><br><a href="#">Vendor Advisory</a><br><a href="#">www.qualcomm.com</a><br><a href="#">text/html</a> | <a href="#">CONFIRM www.qualcomm.com/company/product-security/bulletins/december-2019-bulletin</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 |
|----------------------------------------------------------------------------------------------|--------------------------|------------------------------------|---------|--------|---------|----------|
| Hardware    | <a href="#">Qualcomm</a> | <a href="#">Apq8096au</a>          | -       | All    | All     | All      |
| Hardware    | <a href="#">Qualcomm</a> | <a href="#">Apq8096au</a>          | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">Apq8096au Firmware</a> | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">Apq8096au Firmware</a> | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">lpg4019</a>            | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">lpg4019</a>            | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">lpg4019 Firmware</a>   | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">lpg4019 Firmware</a>   | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">lpg8064</a>            | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">lpg8064</a>            | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">lpg8064 Firmware</a>   | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">lpg8064 Firmware</a>   | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">lpg8074</a>            | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">lpg8074</a>            | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">lpg8074 Firmware</a>   | -       | All    | All     | All      |
| Operating System                                                                             | <a href="#">Qualcomm</a> | <a href="#">lpg8074 Firmware</a>   | -       | All    | All     | All      |
| Hardware  | <a href="#">Qualcomm</a> | <a href="#">Mdm9607</a>            | -       | All    | All     | All      |

| Hardware     | Qualcomm | Mdm9607            | - | All | All | All |
|----------------------------------------------------------------------------------------------|----------|--------------------|---|-----|-----|-----|
| Hardware    | Qualcomm | Mdm9607            | - | All | All | All |
| Operating System                                                                             | Qualcomm | Mdm9607 Firmware   | - | All | All | All |
| Operating System                                                                             | Qualcomm | Mdm9607 Firmware   | - | All | All | All |
| Hardware    | Qualcomm | Msm8996au          | - | All | All | All |
| Hardware    | Qualcomm | Msm8996au          | - | All | All | All |
| Operating System                                                                             | Qualcomm | Msm8996au Firmware | - | All | All | All |
| Operating System                                                                             | Qualcomm | Msm8996au Firmware | - | All | All | All |
| Hardware    | Qualcomm | Qca6574au          | - | All | All | All |
| Hardware    | Qualcomm | Qca6574au          | - | All | All | All |
| Operating System                                                                             | Qualcomm | Qca6574au Firmware | - | All | All | All |
| Operating System                                                                             | Qualcomm | Qca6574au Firmware | - | All | All | All |
| Hardware  | Qualcomm | Qca8081            | - | All | All | All |
| Hardware  | Qualcomm | Qca8081            | - | All | All | All |
| Operating System                                                                             | Qualcomm | Qca8081 Firmware   | - | All | All | All |
| Operating System                                                                             | Qualcomm | Qca8081 Firmware   | - | All | All | All |
| Hardware  | Qualcomm | Qcn7605            | - | All | All | All |
| Hardware  | Qualcomm | Qcn7605            | - | All | All | All |
| Operating System                                                                             | Qualcomm | Qcn7605 Firmware   | - | All | All | All |
| Operating System                                                                             | Qualcomm | Qcn7605 Firmware   | - | All | All | All |
| Hardware  | Qualcomm | Sdx55              | - | All | All | All |
| Hardware  | Qualcomm | Sdx55              | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sdx55 Firmware     | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sdx55 Firmware     | - | All | All | All |
| Hardware  | Qualcomm | Sm6150             | - | All | All | All |
| Hardware  | Qualcomm | Sm6150             | - | All | All | All |
| Operating System                                                                             | Qualcomm | Sm6150 Firmware    | - | All | All | All |

|                                                                  |          |                 |   |     |     |     |
|------------------------------------------------------------------|----------|-----------------|---|-----|-----|-----|
| Operating System                                                 | Qualcomm | Sm6150 Firmware | - | All | All | All |
| Hardware 🇹🇼 ↗️                                                   | Qualcomm | Sm7150          | - | All | All | All |
| Hardware 🇹🇼 ↗️                                                   | Qualcomm | Sm7150          | - | All | All | All |
| Operating System                                                 | Qualcomm | Sm7150 Firmware | - | All | All | All |
| Operating System                                                 | Qualcomm | Sm7150 Firmware | - | All | All | All |
| Hardware 🇹🇼 ↗️                                                   | Qualcomm | Sm8150          | - | All | All | All |
| Hardware 🇹🇼 ↗️                                                   | Qualcomm | Sm8150          | - | All | All | All |
| Operating System                                                 | Qualcomm | Sm8150 Firmware | - | All | All | All |
| Operating System                                                 | Qualcomm | Sm8150 Firmware | - | All | All | All |
| cpe:2.3:h:qualcomm:apq8096au:-:~::~~::~~::~~::~~::~~:::          |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:apq8096au:-:~::~~::~~::~~::~~::~~:::          |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:apq8096au_firmware:-:~::~~::~~::~~::~~::~~::: |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:apq8096au_firmware:-:~::~~::~~::~~::~~::~~::: |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:ipq4019:-:~::~~::~~::~~::~~::~~:::            |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:ipq4019:-:~::~~::~~::~~::~~::~~:::            |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:ipq4019_firmware:-:~::~~::~~::~~::~~::~~:::   |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:ipq4019_firmware:-:~::~~::~~::~~::~~::~~:::   |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:ipq8064:-:~::~~::~~::~~::~~::~~:::            |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:ipq8064:-:~::~~::~~::~~::~~::~~:::            |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:ipq8064_firmware:-:~::~~::~~::~~::~~::~~:::   |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:ipq8064_firmware:-:~::~~::~~::~~::~~::~~:::   |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:ipq8074:-:~::~~::~~::~~::~~::~~:::            |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:ipq8074:-:~::~~::~~::~~::~~::~~:::            |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:ipq8074_firmware:-:~::~~::~~::~~::~~::~~:::   |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:ipq8074_firmware:-:~::~~::~~::~~::~~::~~:::   |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:mdm9607:-:~::~~::~~::~~::~~::~~:::            |          |                 |   |     |     |     |
| cpe:2.3:h:qualcomm:mdm9607:-:~::~~::~~::~~::~~::~~:::            |          |                 |   |     |     |     |
| cpe:2.3:o:qualcomm:mdm9607_firmware:-:~::~~::~~::~~::~~::~~:::   |          |                 |   |     |     |     |

|                                               |
|-----------------------------------------------|
| cpe:2.3:o:qualcomm:mdm9607_firmware:-:*~::~   |
| cpe:2.3:o:qualcomm:mdm9607_firmware:-:*~::~   |
| cpe:2.3:h:qualcomm:msm8996au:-:*~::~          |
| cpe:2.3:h:qualcomm:msm8996au:-:*~::~          |
| cpe:2.3:o:qualcomm:msm8996au_firmware:-:*~::~ |
| cpe:2.3:o:qualcomm:msm8996au_firmware:-:*~::~ |
| cpe:2.3:h:qualcomm:qca6574au:-:*~::~          |
| cpe:2.3:h:qualcomm:qca6574au:-:*~::~          |
| cpe:2.3:o:qualcomm:qca6574au_firmware:-:*~::~ |
| cpe:2.3:o:qualcomm:qca6574au_firmware:-:*~::~ |
| cpe:2.3:h:qualcomm:qca8081:-:*~::~            |
| cpe:2.3:h:qualcomm:qca8081:-:*~::~            |
| cpe:2.3:o:qualcomm:qca8081_firmware:-:*~::~   |
| cpe:2.3:o:qualcomm:qca8081_firmware:-:*~::~   |
| cpe:2.3:h:qualcomm:qcn7605:-:*~::~            |
| cpe:2.3:h:qualcomm:qcn7605:-:*~::~            |
| cpe:2.3:o:qualcomm:qcn7605_firmware:-:*~::~   |
| cpe:2.3:o:qualcomm:qcn7605_firmware:-:*~::~   |
| cpe:2.3:h:qualcomm:sdx55:-:*~::~              |
| cpe:2.3:h:qualcomm:sdx55:-:*~::~              |
| cpe:2.3:o:qualcomm:sdx55_firmware:-:*~::~     |
| cpe:2.3:o:qualcomm:sdx55_firmware:-:*~::~     |
| cpe:2.3:h:qualcomm:sm6150:-:*~::~             |
| cpe:2.3:h:qualcomm:sm6150:-:*~::~             |
| cpe:2.3:o:qualcomm:sm6150_firmware:-:*~::~    |
| cpe:2.3:o:qualcomm:sm6150_firmware:-:*~::~    |
| cpe:2.3:h:qualcomm:sm7150:-:*~::~             |
| cpe:2.3:h:qualcomm:sm7150:-:*~::~             |
| cpe:2.3:o:qualcomm:sm7150_firmware:-:*~::~    |

|                                                     |                          |
|-----------------------------------------------------|--------------------------|
| cpe:2.3:o:qualcomm:sm7150_firmware:-:*****:         |                          |
| cpe:2.3:h:qualcomm:sm8150:-:*****:                  |                          |
| cpe:2.3:h:qualcomm:sm8150:-:*****:                  |                          |
| cpe:2.3:o:qualcomm:sm8150_firmware:-:*****:         |                          |
| cpe:2.3:o:qualcomm:sm8150_firmware:-:*****:         |                          |
| No vendor comments have been submitted for this CVE |                          |
| <a href="#">← Previous ID</a>                       | <a href="#">Next ID→</a> |