



# CVE-2019-14067

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

## Summary

|                        |                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>CVE</b>             | CVE-2019-14067                                                                                                           |
| <b>State</b>           | PUBLIC                                                                                                                   |
| <b>Assigner</b>        | product-security@qualcomm.com                                                                                            |
| <b>Source Priority</b> | CVE Program / NVD first with legacy fallback                                                                             |
| <b>Published</b>       | 2020-06-02 15:15:00 UTC                                                                                                  |
| <b>Updated</b>         | 2021-07-21 11:39:00 UTC                                                                                                  |
| <b>Description</b>     | Using non-time-constant functions like memcmp to compare sensitive data can lead to information leakage through timing s |

## Risk And Classification

### Problem Types: CWE-203

## NVD Known Affected Configurations (CPE 2.3)

| Type             | Vendor                   | Product                            | Version | Update | Edition | Language |
|------------------|--------------------------|------------------------------------|---------|--------|---------|----------|
| Hardware         | <a href="#">Qualcomm</a> | <a href="#">Apq8009</a>            | -       | All    | All     | All      |
| Hardware         | <a href="#">Qualcomm</a> | <a href="#">Apq8009</a>            | -       | All    | All     | All      |
| Operating System | <a href="#">Qualcomm</a> | <a href="#">Apq8009 Firmware</a>   | -       | All    | All     | All      |
| Operating System | <a href="#">Qualcomm</a> | <a href="#">Apq8009 Firmware</a>   | -       | All    | All     | All      |
| Hardware         | <a href="#">Qualcomm</a> | <a href="#">Apq8017</a>            | -       | All    | All     | All      |
| Hardware         | <a href="#">Qualcomm</a> | <a href="#">Apq8017</a>            | -       | All    | All     | All      |
| Operating System | <a href="#">Qualcomm</a> | <a href="#">Apq8017 Firmware</a>   | -       | All    | All     | All      |
| Operating System | <a href="#">Qualcomm</a> | <a href="#">Apq8017 Firmware</a>   | -       | All    | All     | All      |
| Hardware         | <a href="#">Qualcomm</a> | <a href="#">Apq8053</a>            | -       | All    | All     | All      |
| Hardware         | <a href="#">Qualcomm</a> | <a href="#">Apq8053</a>            | -       | All    | All     | All      |
| Operating System | <a href="#">Qualcomm</a> | <a href="#">Apq8053 Firmware</a>   | -       | All    | All     | All      |
| Operating System | <a href="#">Qualcomm</a> | <a href="#">Apq8053 Firmware</a>   | -       | All    | All     | All      |
| Hardware         | <a href="#">Qualcomm</a> | <a href="#">Apq8096</a>            | -       | All    | All     | All      |
| Hardware         | <a href="#">Qualcomm</a> | <a href="#">Apq8096</a>            | -       | All    | All     | All      |
| 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 | Qualcomm | Apq8096au Firmware | - | All | All | All |
| Operating System | Qualcomm | Apq8096 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Apq8096 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Apq8098            | - | All | All | All |
| Hardware         | Qualcomm | Apq8098            | - | All | All | All |
| Operating System | Qualcomm | Apq8098 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Apq8098 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Kamorta            | - | All | All | All |
| Hardware         | Qualcomm | Kamorta            | - | All | All | All |
| Operating System | Qualcomm | Kamorta Firmware   | - | All | All | All |
| Operating System | Qualcomm | Kamorta Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Mdm9150            | - | All | All | All |
| Hardware         | Qualcomm | Mdm9150            | - | All | All | All |
| Operating System | Qualcomm | Mdm9150 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Mdm9150 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Mdm9205            | - | All | All | All |
| Hardware         | Qualcomm | Mdm9205            | - | All | All | All |
| Operating System | Qualcomm | Mdm9205 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Mdm9205 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Mdm9206            | - | All | All | All |
| Hardware         | Qualcomm | Mdm9206            | - | All | All | All |
| Operating System | Qualcomm | Mdm9206 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Mdm9206 Firmware   | - | 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 | Mdm9650            | - | All | All | All |
| Hardware         | Qualcomm | Mdm9650            | - | All | All | All |
| Operating System | Qualcomm | Mdm9650 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Mdm9650 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Msm8909            | - | All | All | All |
| Hardware         | Qualcomm | Msm8909            | - | All | All | All |
| Hardware         | Qualcomm | Msm8909w           | - | All | All | All |
| Hardware         | Qualcomm | Msm8909w           | - | All | All | All |

|                  |          |                    |   |     |     |     |
|------------------|----------|--------------------|---|-----|-----|-----|
| Operating System | Qualcomm | Msm8909w Firmware  | - | All | All | All |
| Operating System | Qualcomm | Msm8909w Firmware  | - | All | All | All |
| Operating System | Qualcomm | Msm8909 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Msm8909 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Msm8917            | - | All | All | All |
| Hardware         | Qualcomm | Msm8917            | - | All | All | All |
| Operating System | Qualcomm | Msm8917 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Msm8917 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Msm8920            | - | All | All | All |
| Hardware         | Qualcomm | Msm8920            | - | All | All | All |
| Operating System | Qualcomm | Msm8920 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Msm8920 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Msm8937            | - | All | All | All |
| Hardware         | Qualcomm | Msm8937            | - | All | All | All |
| Operating System | Qualcomm | Msm8937 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Msm8937 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Msm8940            | - | All | All | All |
| Hardware         | Qualcomm | Msm8940            | - | All | All | All |
| Operating System | Qualcomm | Msm8940 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Msm8940 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Msm8953            | - | All | All | All |
| Hardware         | Qualcomm | Msm8953            | - | All | All | All |
| Operating System | Qualcomm | Msm8953 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Msm8953 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Msm8996            | - | All | All | All |
| Hardware         | Qualcomm | Msm8996            | - | 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 |
| Operating System | Qualcomm | Msm8996 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Msm8996 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Msm8998            | - | All | All | All |
| Hardware         | Qualcomm | Msm8998            | - | All | All | All |
| Operating System | Qualcomm | Msm8998 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Msm8998 Firmware   | - | All | All | All |

|                  |          |                  |   |     |     |     |
|------------------|----------|------------------|---|-----|-----|-----|
| Operating System | Qualcomm | Msm8998 Firmware | - | All | All | All |
| Hardware         | Qualcomm | Nicobar          | - | All | All | All |
| Hardware         | Qualcomm | Nicobar          | - | All | All | All |
| Operating System | Qualcomm | Nicobar Firmware | - | All | All | All |
| Operating System | Qualcomm | Nicobar Firmware | - | All | All | All |
| Hardware         | Qualcomm | Qcm2150          | - | All | All | All |
| Hardware         | Qualcomm | Qcm2150          | - | All | All | All |
| Operating System | Qualcomm | Qcm2150 Firmware | - | All | All | All |
| Operating System | Qualcomm | Qcm2150 Firmware | - | All | All | All |
| Hardware         | Qualcomm | Qcs404           | - | All | All | All |
| Hardware         | Qualcomm | Qcs404           | - | All | All | All |
| Operating System | Qualcomm | Qcs404 Firmware  | - | All | All | All |
| Operating System | Qualcomm | Qcs404 Firmware  | - | All | All | All |
| Hardware         | Qualcomm | Qcs405           | - | All | All | All |
| Hardware         | Qualcomm | Qcs405           | - | All | All | All |
| Operating System | Qualcomm | Qcs405 Firmware  | - | All | All | All |
| Operating System | Qualcomm | Qcs405 Firmware  | - | All | All | All |
| Hardware         | Qualcomm | Qcs605           | - | All | All | All |
| Hardware         | Qualcomm | Qcs605           | - | All | All | All |
| Operating System | Qualcomm | Qcs605 Firmware  | - | All | All | All |
| Operating System | Qualcomm | Qcs605 Firmware  | - | All | All | All |
| Hardware         | Qualcomm | Qm215            | - | All | All | All |
| Hardware         | Qualcomm | Qm215            | - | All | All | All |
| Operating System | Qualcomm | Qm215 Firmware   | - | All | All | All |
| Operating System | Qualcomm | Qm215 Firmware   | - | All | All | All |
| Hardware         | Qualcomm | Rennell          | - | All | All | All |
| Hardware         | Qualcomm | Rennell          | - | All | All | All |
| Operating System | Qualcomm | Rennell Firmware | - | All | All | All |
| Operating System | Qualcomm | Rennell Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sa415m           | - | All | All | All |
| Hardware         | Qualcomm | Sa415m           | - | All | All | All |
| Operating System | Qualcomm | Sa415m Firmware  | - | All | All | All |
| Operating System | Qualcomm | Sa415m Firmware  | - | All | All | All |
| Hardware         | Qualcomm | Sa6155p          | - | All | All | All |
| Hardware         | Qualcomm | Sa6155p          | - | All | All | All |
| Operating System | Qualcomm | Sa6155p Firmware | - | All | All | All |

|                  |          |                  |   |     |     |     |
|------------------|----------|------------------|---|-----|-----|-----|
| Operating System | Qualcomm | Sa6155p Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sc7180           | - | All | All | All |
| Hardware         | Qualcomm | Sc7180           | - | All | All | All |
| Operating System | Qualcomm | Sc7180 Firmware  | - | All | All | All |
| Operating System | Qualcomm | Sc7180 Firmware  | - | All | All | All |
| Hardware         | Qualcomm | Sc8180x          | - | All | All | All |
| Hardware         | Qualcomm | Sc8180x          | - | All | All | All |
| Operating System | Qualcomm | Sc8180x Firmware | - | All | All | All |
| Operating System | Qualcomm | Sc8180x Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sda660           | - | All | All | All |
| Hardware         | Qualcomm | Sda660           | - | All | All | All |
| Operating System | Qualcomm | Sda660 Firmware  | - | All | All | All |
| Operating System | Qualcomm | Sda660 Firmware  | - | All | All | All |
| Hardware         | Qualcomm | Sda845           | - | All | All | All |
| Hardware         | Qualcomm | Sda845           | - | All | All | All |
| Operating System | Qualcomm | Sda845 Firmware  | - | All | All | All |
| Operating System | Qualcomm | Sda845 Firmware  | - | All | All | All |
| Hardware         | Qualcomm | Sdm429           | - | All | All | All |
| Hardware         | Qualcomm | Sdm429           | - | All | All | All |
| Hardware         | Qualcomm | Sdm429w          | - | All | All | All |
| Hardware         | Qualcomm | Sdm429w          | - | All | All | All |
| Operating System | Qualcomm | Sdm429w Firmware | - | All | All | All |
| Operating System | Qualcomm | Sdm429w Firmware | - | All | All | All |
| Operating System | Qualcomm | Sdm429 Firmware  | - | All | All | All |
| Operating System | Qualcomm | Sdm429 Firmware  | - | All | All | All |
| Hardware         | Qualcomm | Sdm439           | - | All | All | All |
| Hardware         | Qualcomm | Sdm439           | - | All | All | All |
| Operating System | Qualcomm | Sdm439 Firmware  | - | All | All | All |
| Operating System | Qualcomm | Sdm439 Firmware  | - | All | All | All |
| Hardware         | Qualcomm | Sdm450           | - | All | All | All |
| Hardware         | Qualcomm | Sdm450           | - | All | All | All |
| Operating System | Qualcomm | Sdm450 Firmware  | - | All | All | All |
| Operating System | Qualcomm | Sdm450 Firmware  | - | All | All | All |
| Hardware         | Qualcomm | Sdm630           | - | All | All | All |
| Hardware         | Qualcomm | Sdm630           | - | All | All | All |

|                  |          |                 |   |     |     |     |
|------------------|----------|-----------------|---|-----|-----|-----|
| Operating System | Qualcomm | Sdm630 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sdm630 Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sdm632          | - | All | All | All |
| Hardware         | Qualcomm | Sdm632          | - | All | All | All |
| Operating System | Qualcomm | Sdm632 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sdm632 Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sdm636          | - | All | All | All |
| Hardware         | Qualcomm | Sdm636          | - | All | All | All |
| Operating System | Qualcomm | Sdm636 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sdm636 Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sdm660          | - | All | All | All |
| Hardware         | Qualcomm | Sdm660          | - | All | All | All |
| Operating System | Qualcomm | Sdm660 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sdm660 Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sdm670          | - | All | All | All |
| Hardware         | Qualcomm | Sdm670          | - | All | All | All |
| Operating System | Qualcomm | Sdm670 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sdm670 Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sdm710          | - | All | All | All |
| Hardware         | Qualcomm | Sdm710          | - | All | All | All |
| Operating System | Qualcomm | Sdm710 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sdm710 Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sdm845          | - | All | All | All |
| Hardware         | Qualcomm | Sdm845          | - | All | All | All |
| Operating System | Qualcomm | Sdm845 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sdm845 Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sdm850          | - | All | All | All |
| Hardware         | Qualcomm | Sdm850          | - | All | All | All |
| Operating System | Qualcomm | Sdm850 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sdm850 Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sdx24           | - | All | All | All |
| Hardware         | Qualcomm | Sdx24           | - | All | All | All |
| Operating System | Qualcomm | Sdx24 Firmware  | - | All | All | All |
| Operating System | Qualcomm | Sdx24 Firmware  | - | All | All | All |
| Hardware         | Qualcomm | Sdx55           | - | 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 |
| Hardware         | Qualcomm | Sxr1130          | - | All | All | All |
| Hardware         | Qualcomm | Sxr1130          | - | All | All | All |
| Operating System | Qualcomm | Sxr1130 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sxr1130 Firmware | - | All | All | All |
| Hardware         | Qualcomm | Sxr2130          | - | All | All | All |
| Hardware         | Qualcomm | Sxr2130          | - | All | All | All |
| Operating System | Qualcomm | Sxr2130 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sxr2130 Firmware | - | All | All | All |

| References                            |         |                                                        |                     |  |
|---------------------------------------|---------|--------------------------------------------------------|---------------------|--|
| Reference                             | Source  | Link                                                   | Tags                |  |
| May 2020 Security Bulletin   Qualcomm | CONFIRM | <a href="http://www.qualcomm.com">www.qualcomm.com</a> | Vendor Advisory     |  |
| CVE Program record                    | CVE.ORG | <a href="http://www.cve.org">www.cve.org</a>           | canonical           |  |
| NVD vulnerability detail              | NVD     | <a href="http://nvd.nist.gov">nvd.nist.gov</a>         | 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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**CVE.report and Source URL Uptime Status** [status.cve.report](#)