



CVE-2019-10491

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

Summary

| | |
|------------------------|---|
| CVE | CVE-2019-10491 |
| State | PUBLIC |
| Assigner | product-security@qualcomm.com |
| Source Priority | CVE Program / NVD first with legacy fallback |
| Published | 2019-11-06 17:15:00 UTC |
| Updated | 2019-11-07 17:32:00 UTC |
| Description | ADSP can be compromised since it's a general-purpose CPU processing untrusted data in Snapdragon Auto, Snapdragon |

Risk And Classification

Problem Types: CWE-120

NVD Known Affected Configurations (CPE 2.3)

| Type | Vendor | Product | Version | Update | Edition | Language |
|------------------|--------------------------|-----------------------------------|---------|--------|---------|----------|
| Hardware | Qualcomm | Ippq4019 | - | All | All | All |
| Hardware | Qualcomm | Ippq4019 | - | All | All | All |
| Operating System | Qualcomm | Ippq4019 Firmware | - | All | All | All |
| Operating System | Qualcomm | Ippq4019 Firmware | - | All | All | All |
| Hardware | Qualcomm | Ippq8064 | - | All | All | All |
| Hardware | Qualcomm | Ippq8064 | - | All | All | All |
| Operating System | Qualcomm | Ippq8064 Firmware | - | All | All | All |
| Operating System | Qualcomm | Ippq8064 Firmware | - | All | All | All |
| Hardware | Qualcomm | Ippq8074 | - | All | All | All |
| Hardware | Qualcomm | Ippq8074 | - | All | All | All |
| Operating System | Qualcomm | Ippq8074 Firmware | - | All | All | All |
| Operating System | Qualcomm | Ippq8074 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 | Mdm9206 | - | All | All | All |

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|------------------|----------|-----------------------|---|-----|-----|-----|
| 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 | Mdm9640 | - | All | All | All |
| Hardware | Qualcomm | Mdm9640 | - | All | All | All |
| Operating System | Qualcomm | Mdm9640 Firmware | - | All | All | All |
| Operating System | Qualcomm | Mdm9640 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 | 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 |
| 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 | 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 | Qualcomm 215 | - | All | All | All |
| Hardware | Qualcomm | Qualcomm 215 | - | All | All | All |
| Operating System | Qualcomm | Qualcomm 215 Firmware | - | All | All | All |
| Operating System | Qualcomm | Qualcomm 215 Firmware | - | All | All | All |

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|------------------|----------|-----------------|---|-----|-----|-----|
| Hardware | Qualcomm | Sd616 | - | All | All | All |
| Hardware | Qualcomm | Sd616 | - | All | All | All |
| Operating System | Qualcomm | Sd616 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd616 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 | 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 | 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 | 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 | Sdx20 | - | All | All | All |
| Hardware | Qualcomm | Sdx20 | - | All | All | All |
| Operating System | Qualcomm | Sdx20 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sdx20 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 | Sd 205 | - | All | All | All |
| Hardware | Qualcomm | Sd 205 | - | All | All | All |
| Operating System | Qualcomm | Sd 205 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 205 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 210 | - | All | All | All |
| Hardware | Qualcomm | Sd 210 | - | All | All | All |
| Operating System | Qualcomm | Sd 210 Firmware | - | All | All | All |

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|------------------|----------|-----------------|---|-----|-----|-----|
| Operating System | Qualcomm | Sd 210 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 212 | - | All | All | All |
| Hardware | Qualcomm | Sd 212 | - | All | All | All |
| Operating System | Qualcomm | Sd 212 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 212 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 415 | - | All | All | All |
| Hardware | Qualcomm | Sd 415 | - | All | All | All |
| Operating System | Qualcomm | Sd 415 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 415 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 425 | - | All | All | All |
| Hardware | Qualcomm | Sd 425 | - | All | All | All |
| Operating System | Qualcomm | Sd 425 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 425 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 427 | - | All | All | All |
| Hardware | Qualcomm | Sd 427 | - | All | All | All |
| Operating System | Qualcomm | Sd 427 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 427 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 429 | - | All | All | All |
| Hardware | Qualcomm | Sd 429 | - | All | All | All |
| Operating System | Qualcomm | Sd 429 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 429 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 430 | - | All | All | All |
| Hardware | Qualcomm | Sd 430 | - | All | All | All |
| Operating System | Qualcomm | Sd 430 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 430 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 435 | - | All | All | All |
| Hardware | Qualcomm | Sd 435 | - | All | All | All |
| Operating System | Qualcomm | Sd 435 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 435 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 439 | - | All | All | All |
| Hardware | Qualcomm | Sd 439 | - | All | All | All |
| Operating System | Qualcomm | Sd 439 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 439 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 450 | - | All | All | All |
| Hardware | Qualcomm | Sd 450 | - | All | All | All |
| Operating System | Qualcomm | Sd 450 Firmware | - | All | All | All |

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|------------------|----------|-----------------|---|-----|-----|-----|
| Operating System | Qualcomm | Sd 450 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 615 | - | All | All | All |
| Hardware | Qualcomm | Sd 615 | - | All | All | All |
| Operating System | Qualcomm | Sd 615 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 615 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 625 | - | All | All | All |
| Hardware | Qualcomm | Sd 625 | - | All | All | All |
| Operating System | Qualcomm | Sd 625 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 625 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 632 | - | All | All | All |
| Hardware | Qualcomm | Sd 632 | - | All | All | All |
| Operating System | Qualcomm | Sd 632 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 632 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 636 | - | All | All | All |
| Hardware | Qualcomm | Sd 636 | - | All | All | All |
| Operating System | Qualcomm | Sd 636 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 636 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 665 | - | All | All | All |
| Hardware | Qualcomm | Sd 665 | - | All | All | All |
| Operating System | Qualcomm | Sd 665 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 665 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 670 | - | All | All | All |
| Hardware | Qualcomm | Sd 670 | - | All | All | All |
| Operating System | Qualcomm | Sd 670 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 670 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 675 | - | All | All | All |
| Hardware | Qualcomm | Sd 675 | - | All | All | All |
| Operating System | Qualcomm | Sd 675 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 675 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 710 | - | All | All | All |
| Hardware | Qualcomm | Sd 710 | - | All | All | All |
| Operating System | Qualcomm | Sd 710 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 710 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 712 | - | All | All | All |
| Hardware | Qualcomm | Sd 712 | - | All | All | All |

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|------------------|----------|------------------|---|-----|-----|-----|
| Operating System | Qualcomm | Sd 712 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 712 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 730 | - | All | All | All |
| Hardware | Qualcomm | Sd 730 | - | All | All | All |
| Operating System | Qualcomm | Sd 730 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 730 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 820 | - | All | All | All |
| Hardware | Qualcomm | Sd 820 | - | All | All | All |
| Hardware | Qualcomm | Sd 820a | - | All | All | All |
| Hardware | Qualcomm | Sd 820a | - | All | All | All |
| Operating System | Qualcomm | Sd 820a Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 820a Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 820 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 820 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 835 | - | All | All | All |
| Hardware | Qualcomm | Sd 835 | - | All | All | All |
| Operating System | Qualcomm | Sd 835 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 835 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 845 | - | All | All | All |
| Hardware | Qualcomm | Sd 845 | - | All | All | All |
| Operating System | Qualcomm | Sd 845 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 845 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 850 | - | All | All | All |
| Hardware | Qualcomm | Sd 850 | - | All | All | All |
| Operating System | Qualcomm | Sd 850 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 850 Firmware | - | All | All | All |
| Hardware | Qualcomm | Sd 855 | - | All | All | All |
| Hardware | Qualcomm | Sd 855 | - | All | All | All |
| Operating System | Qualcomm | Sd 855 Firmware | - | All | All | All |
| Operating System | Qualcomm | Sd 855 Firmware | - | All | All | All |

References

| Reference | Source | Link | Tags |
|--|---------|---|-----------------------------|
| Android Security Bulletins Android Open Source Project | CONFIRM | source.android.com | Patch, Third Party Advisory |
| CVE Program record | CVE.ORG | www.cve.org | canonical |
| NVD vulnerability detail | NVD | nvd.nist.gov | 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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