



CVE-2019-2305

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CVE-2019-2305

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

Certain versions of [Mdm9150](#) from [Qualcomm](#) contain the following vulnerability:

Out of bound access when reason code is extracted from frame data without validating the frame length in Snapdragon Auto, Snapdragon Consumer Electronics Connectivity, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon Mobile, Snapdragon Voice & Music in MDM9150, MDM9206, MDM9607, MDM9640, MDM9650,

MSM8996AU, QCA6174A, QCA6574AU, QCA9377, QCA9379, QCS405, QCS605, SD 425, SD 427, SD 430, SD 435, SD 450, SD 625, SD 636, SD 665, SD 675, SD 712 / SD 710 / SD 670, SD 730, SD 820, SD 820A, SD 835, SD 845 / SD 850, SD 855, SDA660, SDM630, SDM660, SDX20, SDX24

CVE-2019-2305 has been assigned by [Q](#) product-security@qualcomm.com to track the vulnerability - currently rated as **CRITICAL** severity.

Affected Vendor/Software: [Q](#) Qualcomm, Inc. - Snapdragon Auto, Snapdragon Consumer Electronics Connectivity, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon Mobile, Snapdragon Voice & Music version MDM9150, MDM9206, MDM9607, MDM9640, MDM9650, MSM8996AU, QCA6174A, QCA6574AU, QCA9377, QCA9379, QCS405, QCS605, SD 425, SD 427, SD 430, SD 435, SD 450, SD 625, SD 636, SD 665, SD 675, SD 712 / SD 710 / SD 670, SD 730, SD 820, SD 820A, SD 835, SD 845 / SD 850, SD 855, SDA660, SDM630, SDM660, SDX20, SDX24

CVSS3 Score: **9.8 - CRITICAL**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH

CVSS2 Score: **7.5 - HIGH**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE

Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
July 2019 Code Aurora Security Bulletin - Code Aurora	Patch Third Party Advisory www.codeaurora.org text/html	 CONFIRM www.codeaurora.org/security-bulletin/2019/07/01/july-2019-code-aurora-security-bulletin

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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 	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
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	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	Qca6174a	-	All	All	All
Hardware  	Qualcomm	Qca6174a	-	All	All	All
Operating System	Qualcomm	Qca6174a Firmware	-	All	All	All
Operating System	Qualcomm	Qca6174a 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	Qca9377	-	All	All	All
Hardware  	Qualcomm	Qca9377	-	All	All	All
Operating System	Qualcomm	Qca9377 Firmware	-	All	All	All
Operating System	Qualcomm	Qca9377 Firmware	-	All	All	All
Hardware  	Qualcomm	Qca9379	-	All	All	All
Hardware  	Qualcomm	Qca9379	-	All	All	All
Operating System	Qualcomm	Qca9379 Firmware	-	All	All	All
Operating System	Qualcomm	Qca9379 Firmware	-	All	All	All
Hardware  	Qualcomm	Qcs405	-	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	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	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

System						
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 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 450	-	All	All	All
Hardware  	Qualcomm	Sd 450	-	All	All	All
Operating System	Qualcomm	Sd 450 Firmware	-	All	All	All
Operating System	Qualcomm	Sd 450 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 636	-	All	All	All
Hardware  	Qualcomm	Sd 636	-	All	All	All
Operating System	Qualcomm	Sd 636 Firmware	-	All	All	All

Operating System	Qualcomm	Sd 660 Firmware	-	All	All	All
Operating System	Qualcomm	Sd 665 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
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
Hardware		Qualcomm	Sd 820a	-	All	All
Hardware		Qualcomm	Sd 820a	-	All	All
Operating System		Qualcomm	Sd 820a Firmware	-	All	All
Operating System		Qualcomm	Sd 820a Firmware	-	All	All
Operating System		Qualcomm	Sd 820 Firmware	-	All	All
Operating System		Qualcomm	Sd 820 Firmware	-	All	All
Hardware		Qualcomm	Sd 835	-	All	All
Hardware		Qualcomm	Sd 835	-	All	All
Operating System		Qualcomm	Sd 835 Firmware	-	All	All
Operating System		Qualcomm	Sd 835 Firmware	-	All	All
Hardware		Qualcomm	Sd 845	-	All	All
Hardware		Qualcomm	Sd 845	-	All	All
Operating System		Qualcomm	Sd 845 Firmware	-	All	All
Operating System		Qualcomm	Sd 845 Firmware	-	All	All
Hardware		Qualcomm	Sd 850	-	All	All
Hardware		Qualcomm	Sd 850	-	All	All
Operating System		Qualcomm	Sd 850 Firmware	-	All	All
Operating System		Qualcomm	Sd 850 Firmware	-	All	All
Hardware		Qualcomm	Sd 855	-	All	All
Hardware		Qualcomm	Sd 855	-	All	All
Operating System		Qualcomm	Sd 855 Firmware	-	All	All
Operating System		Qualcomm	Sd 855 Firmware	-	All	All
cpe:2.3:h:qualcomm:mdm9150:-:*:*:*:*:*:						
cpe:2.3:h:qualcomm:mdm9150:-:*:*:*:*:*:						
cpe:2.3:o:qualcomm:mdm9150_firmware:-:*:*:*:*:*:						

```
cpe:2.3:o:qualcomm:mdm9150_firmware:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:mdm9206:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:mdm9206:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:mdm9206_firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:o:qualcomm:mdm9206_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:h:qualcomm:mdm9640:-:*:*:*:*:*:*:

```
cpe:2.3:h:qualcomm:mdm9640:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:mdm9640_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:mdm9640_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:mdm9650:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:mdm9650:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:mdm9650_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:mdm9650_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:qca6174a:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:qca6174a:-:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:qca6174a_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:qca6174a_firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:qca6574au:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:qca6574au:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:qca6574au_firmware:-:*:*:*:*:*:
```

```
cne23@qualcomm:oc6574au firmware:~$
```

0p0.2.0.0.q0a0000000.q0a000 / tau_000000000.

cpe:2.3:h:qualcomm:gca9377:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:qca9377:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:qca9377_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:qca9377_firmware:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:gca9379:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:gca9379:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:qca9379_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:qca9379_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:qcs405:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:gcs405:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:qcs405_firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:o:qualcomm:qcs405_firmware:-:*:*:*:*:*
```

cpe:2.3:h:qualcomm:qcs605:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:qcs605:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:qcs605 firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:qcs605_firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:h:qualcomm:sda660:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sda660:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sda660 firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:o:qualcomm:sda660 firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sdm630:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sdm630:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sdm630_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sdm630 firmware:-.*:.*:.*:.*:.*:.*:.*:.*
```

cpe:2.3:h:qualcomm:sdm660:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sdm660:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sdm660_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sdm660 firmware:-.*:.*:.*:.*:.*:.*:.*:.*
```

cpe:2.3:h:qualcomm:sdx20:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sdx20:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sdx20_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sdx20 firmware:-:*:*:*:*:*:*
```

cpe:2.3:h:qualcomm:sdx24:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sdx24:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sdx24_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sdx24_firmware:-:*:*:*:*:*:*
```

cpe:2.3:h:qualcomm:sd 425:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sd_425:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sd_425_firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:o:qualcomm:sd_425_firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sd_427:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sd 427:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sd_427_firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:o:qualcomm:sd_427_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd 430:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_430:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd 430 firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd 430 firmware:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sd_435:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:sd 435:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sd 435 firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:o:qualcomm:sd 435 firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_450:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd 450:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd 450 firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:o:qualcomm:sd 450 firmware:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sd_625:-:::~::~:

cpe:2.3:h:qualcomm:sd_625:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sd_625_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_625_firmware:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sd_636:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sd_636:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sd_636_firmware:-:*:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_636_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_665:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_665:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd 665 firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_665_firmware:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sd_670:-:*:*:*:*:*:*:

```
cpe:2.3:h:qualcomm:sd_670:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_670_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_670_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_675:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_675:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd 675 firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd 675 firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sd_710:-:*:*:*:*:*:*:

```
cpe:2.3:h:qualcomm:sd_710:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_710_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_710_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_712:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd 712:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd 712 firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd 712 firmware:-:~::~::~:
```

```
cpe:2.3:h:qualcomm:sd_730:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sd_730:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sd_730_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_730_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_820:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_820:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_820a:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sd_820a:-:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sd 820a firmware:-:*:*:*:*:*.*
```

```
cpe:2.3:o:qualcomm:sd_820a_firmware:-:*:*:*:*:*.*
```

```
cpe:2.3:o:qualcomm:sd_820_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_820_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_835:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sd 835:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sd_835_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_835_firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sd_845:-:*:*:*:*:*:*:

```
cpe:2.3:h:qualcomm:sd_845:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_845_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_845_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_850:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:sd_850:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_850_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_850_firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sd_855:-:*:*:*:*:*:*:

```
cpe:2.3:h:qualcomm:sd_855:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_855_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sd_855_firmware:-:*:*:*:*:*:
```

No vendor comments have been submitted for this CVE

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