



CVE-2018-13916

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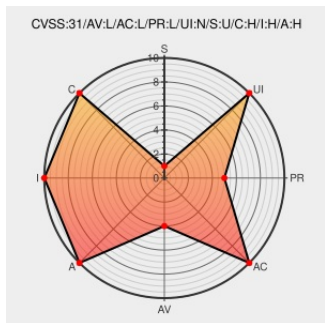
CVE-2018-13916

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF



Certain versions of [Apq8009](#) from [Qualcomm](#) contain the following vulnerability:

Out-of-bounds memory access in Qurt kernel function when using the identifier to access Qurt kernel buffer to retrieve thread data. in Snapdragon Auto, Snapdragon Compute, Snapdragon Connectivity, Snapdragon Consumer Electronics Connectivity, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon IoT,

Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wearables, Snapdragon Wired Infrastructure and Networking in APQ8009, APQ8017, APQ8053, APQ8096, APQ8096AU, APQ8098, IPQ8074, MDM9150, MDM9206, MDM9607, MDM9635M, MDM9640, MDM9650, MDM9655, MSM8905, MSM8909, MSM8909W, MSM8917, MSM8920, MSM8937, MSM8940, MSM8953, MSM8976, MSM8996, MSM8996AU, MSM8998, Nicobar, QCA8081, QCM2150, QCN7605, QCS404, QCS405, QCS605, QM215, SC8180X, SDA660, SDA845, SDM429, SDM439, SDM450, SDM630, SDM632, SDM636, SDM660, SDM670, SDM710, SDM845, SDM850, SDX20, SDX55, SM8150, SM8250, Snapdragon_High_Med_2016, SXR1130, SXR2130

CVE-2018-13916 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 Compute, Snapdragon Connectivity, Snapdragon Consumer Electronics Connectivity, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon IoT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wearables, Snapdragon Wired Infrastructure and Networking version APQ8009, APQ8017, APQ8053, APQ8096, APQ8096AU, APQ8098, IPQ8074, MDM9150, MDM9206, MDM9607, MDM9635M, MDM9640, MDM9650, MDM9655, MSM8905, MSM8909, MSM8909W, MSM8917, MSM8920, MSM8937, MSM8940, MSM8953, MSM8976, MSM8996, MSM8996AU, MSM8998, Nicobar, QCA8081, QCM2150, QCN7605, QCS404, QCS405, QCS605, QM215, SC8180X, SDA660, SDA845, SDM429, SDM439, SDM450, SDM630, SDM632, SDM636, SDM660, SDM670, SDM710, SDM845, SDM850, SDX20, SDX55, SM8150, SM8250, Snapdragon_High_Med_2016, SXR1130, SXR2130

CVSS3 Score: **7.8 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	LOW	NONE

Score Confidentiality Integrity Availability

Scope	Confidentiality Impact	Integrity Impact	Availability Impact			
UNCHANGED	HIGH	HIGH	HIGH			
CVSS2 Score: 7.2 - HIGH						
Access Vector	Access Complexity	Authentication				
LOCAL	LOW	NONE				
Confidentiality Impact	Integrity Impact	Availability Impact				
COMPLETE	COMPLETE	COMPLETE				
CVE References						
Description	Tags	Link				
October Security Bulletin 2019 Qualcomm	Vendor Advisory www.qualcomm.com text/html	CONFIRM www.qualcomm.com/company/product-security/bulletins/october-2019-bulletin				
By selecting these links, you may be leaving CVEreport webspace. We have provided these links to other websites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other websites that are more appropriate for your purpose. CVEreport does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, CVEreport does not endorse any commercial products that may be mentioned on these sites. Please address comments about any linked pages to comment@cve.report.						
There are currently no QIDs associated with this CVE						
Known Affected Configurations (CPE V2.3)						
Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Qualcomm	Apq8009	-	All	All	All
Hardware	Qualcomm	Apq8009	-	All	All	All
Operating System	Qualcomm	Apq8009 Firmware	-	All	All	All
Operating System	Qualcomm	Apq8009 Firmware	-	All	All	All
Hardware	Qualcomm	Apq8017	-	All	All	All
Hardware	Qualcomm	Apq8017	-	All	All	All
Operating System	Qualcomm	Apq8017 Firmware	-	All	All	All
Operating System	Qualcomm	Apq8017 Firmware	-	All	All	All
Hardware	Qualcomm	Apq8053	-	All	All	All
Hardware	Qualcomm	Apq8053	-	All	All	All
Operating System	Qualcomm	Apq8053 Firmware	-	All	All	All

Operating System	Qualcomm	Apq8053 Firmware	-	All	All	All
Hardware  	Qualcomm	Apq8096	-	All	All	All
Hardware  	Qualcomm	Apq8096	-	All	All	All
Hardware  	Qualcomm	Apq8096au	-	All	All	All
Hardware  	Qualcomm	Apq8096au	-	All	All	All
Operating System	Qualcomm	Apq8096au Firmware	-	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	lpq8074	-	All	All	All
Hardware  	Qualcomm	lpq8074	-	All	All	All
Operating System	Qualcomm	lpq8074 Firmware	-	All	All	All
Operating System	Qualcomm	lpq8074 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
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	Mdm9635m	-	All	All	All
Hardware 	Qualcomm	Mdm9635m	-	All	All	All
Operating System	Qualcomm	Mdm9635m Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9635m 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	Mdm9655	-	All	All	All
Hardware 	Qualcomm	Mdm9655	-	All	All	All
Operating System	Qualcomm	Mdm9655 Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9655 Firmware	-	All	All	All
Hardware 	Qualcomm	Msm8905	-	All	All	All
Hardware 	Qualcomm	Msm8905	-	All	All	All
Operating System	Qualcomm	Msm8905 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8905 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	Qualcomm	Msm8909w Firmware	-	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	Msm8976	-	All	All	All
Hardware  	Qualcomm	Msm8976	-	All	All	All
Operating	Qualcomm	Msm8976 Firmware	-	All	All	All

System						
Operating System	Qualcomm	Msm8976 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
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	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	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	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	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	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
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	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


```
cpufrequtils:qualcomm.apq8089_init: . . . . .
```

```
cpe:2.3:o:qualcomm:apq8009_firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:apq8017:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:apq8017:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:apq8017_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:apq8017_firmware:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:apq8053:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:apq8053:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:apq8053_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:apq8053_firmware:-:*:*:*:*:*.*
```

cpe:2.3:h:qualcomm:apq8096:-:*:*:*:*:*:*:

```
cpe:2.3:h:qualcomm:apq8096:-:*:*:*:*:*:*:
```

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:o:qualcomm:apq8096_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:apq8096_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:apq8098:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:apq8098:-:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:apq8098_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:apq8098_firmware:-:*:*:*:*:*:*:
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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: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:mdm9635m:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:mdm9635m:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:mdm9635m_firmware:-:*:*:*:*:*.*
```

```
cpe:2.3:o:qualcomm:mdm9635m_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:mdm9655:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:mdm9655:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:mdm9655_firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:o:qualcomm:mdm9655 firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:h:qualcomm:msm8905:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:msm8905:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:msm8905_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:msm8905_firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:msm8909:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:msm8909:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:msm8909w:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:msm8909w:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:msm8909w_firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:o:qualcomm:msm8909w_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:msm8909_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:msm8909_firmware:-:*:*:*:*:*.*
```

cpe:2.3:h:qualcomm:msm8917:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:msm8917:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:msm8917_firmware:-:*:*:*:*:*.*
```

```
cpe:2.3:o:qualcomm:msm8917_firmware:-:*:*:*:*:*.*
```

cpe:2.3:h:qualcomm:msm8920:-:*:*:*:*:*:*:

```
cpe:2.3:h:qualcomm:msm8920:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:msm8920_firmware:-.*:.*:.*:.*:.*:.*
```

```
cpe:2.3:o:qualcomm:msm8920_firmware:-:*:*:*:*:*.*
```

cpe:2.3:h:qualcomm:msm8937:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:msm8937:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:msm8937 firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:msm8937_firmware:-:*:*:*:*:*.*
```

```
cpe:2.3:h:qualcomm:msm8940:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:msm8940:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:msm8940_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:msm8940_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:h:qualcomm:msm8953:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:msm8953:-:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:msm8953 firmware:-:.*:.*:.*:.*:.*:.*:.*
```

```
cpe:2.3:o:qualcomm:msm8953 firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:msm8976:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:msm8976:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:msm8976_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:msm8976_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:msm8996:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:msm8996:-:~::~~::~~::~~::~~::~~::~~:::
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:o:qualcomm:msm8996_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:msm8996_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:msm8998:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:msm8998:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:msm8998_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:msm8998_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:nicobar:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:nicobar:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:nicobar_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:nicobar_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:qcm2150:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:qcm2150:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:qcm2150_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:qcm2150_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:qcs404:-:*:*:*:*:*:*:

```
cpe:2.3:h:qualcomm:qcs404:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:qcs404_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:qcs404_firmware:-:*:*:*:*:*:*:
```

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

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

```
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:qm215:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:qm215:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:qm215_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:qm215_firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sc8180x:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sc8180x:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sc8180x_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sc8180x_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:sda845:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sda845:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sda845_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sda845_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm429:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm429:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm429_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm429_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm439:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm439:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm439_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm439_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm450:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm450:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm450_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm450_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:sdm632:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm632:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm632_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm632_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm636:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm636:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm636_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm636_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:sdm670:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm670:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm670_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm670_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm710:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm710:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm710_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm710_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm845:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm845:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm845_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm845_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm850:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sdm850:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm850_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sdm850_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: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:sm8150:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sm8150:-:~::~~::~~::~~::~~::~~::~~:::

