



CVE-2019-2310

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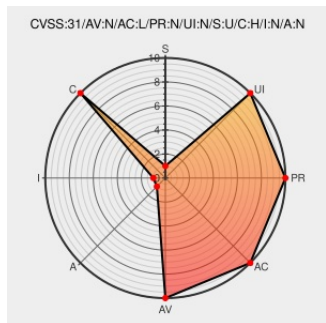
CVE-2019-2310

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF



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

Out of bound read would occur while trying to read action category and action ID without validating the action length of the Rx Frame body in Snapdragon Auto, Snapdragon Consumer Electronics Connectivity, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon IoT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon

Wearables in APQ8009, APQ8017, APQ8053, APQ8096AU, APQ8098, MDM9206, MDM9207C, MDM9607, MDM9640, MDM9650, MSM8909, MSM8917, MSM8920, MSM8937, MSM8940, MSM8953, MSM8996AU, MSM8998, QCA6174A, QCA6574AU, QCA9377, QCA9379, QCN7605, QCS605, SDA660, SDA845, SDM450, SDM630, SDM636, SDM660, SDM670, SDM710, SDM845, SDX20, SM8150

CVE-2019-2310 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 IoT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wearables version APQ8009, APQ8017, APQ8053, APQ8096AU, APQ8098, MDM9206, MDM9207C, MDM9607, MDM9640, MDM9650, MSM8909, MSM8917, MSM8920, MSM8937, MSM8940, MSM8953, MSM8996AU, MSM8998, QCA6174A, QCA6574AU, QCA9377, QCA9379, QCN7605, QCS605, SDA660, SDA845, SDM450, SDM630, SDM636, SDM660, SDM670, SDM710, SDM845, SDX20, SM8150

CVSS3 Score: **7.5 - HIGH**

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

CVSS2 Score: **5 - MEDIUM**

Access Vector	Access Complexity	Authentication
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NETWORK	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	NONE	NONE

CVE References

Description	Tags	Link
November Security Bulletin 2019 Qualcomm	Patch Vendor Advisory www.qualcomm.com text/html	CONFIRM www.qualcomm.com/company/product-security/bulletins/november-2019-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	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	Apq8096au	-	All	All	All
Hardware 	Qualcomm	Apq8096au	-	All	All	All
Operating	Qualcomm	Apq8096au Firmware	-	All	All	All

System						
Operating System	Qualcomm	Apq8096au 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	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	Mdm9207c	-	All	All	All
Hardware  	Qualcomm	Mdm9207c	-	All	All	All
Operating System	Qualcomm	Mdm9207c Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9207c 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	Msm8909	-	All	All	All

Hardware  	Qualcomm	Msm8909	-	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	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	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	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	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	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	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	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	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	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	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:apq8009:-:~::~:							
cpe:2.3:h:qualcomm:apq8009:-:~::~:							
cpe:2.3:o:qualcomm:apq8009_firmware:-:~::~:							
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:-:~::~:							

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cpe:2.3:o:qualcomm:apq8017_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:apq8053:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:apq8053:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:apq8053_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:apq8053_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:apq8096au:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:apq8096au:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:apq8096au_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:apq8096au_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:apq8098:-:*:*:*:*:*:

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cpe:2.3:h:qualcomm:apq8098:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:apq8098_firmware:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:apq8098_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:mdm9206:-:*:*:*:*:*:*:

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

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cpe:2.3:o:qualcomm:mdm9206_firmware:-:*:*:*:*:*:*
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cpe:2.3:o:qualcomm:mdm9206_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:mdm9207c:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:mdm9207c:-:*:*:*:*:*:

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cpe:2.3:o:qualcomm:mdm9207c_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:mdm9207c_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:mdm9607:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:mdm9607:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:mdm9607_firmware:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:mdm9607_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:mdm9640:-:*:*:*:*:*:*:

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

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cpe:2.3:o:qualcomm:mdm9640_firmware:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:mdm9640_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:mdm9650:-:*:*:*:*:*:*:

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

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cpe:2.3:o:qualcomm:mdm9650_firmware:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:mdm9650_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8909:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8909:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8909_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8909_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8917:-:*:*:*:*:*:*:

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

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cpe:2.3:o:qualcomm:msm8917_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8917_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8920:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8920:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8920_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8920_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8937:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8937:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:msm8937_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8937_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8940:-:*:*:*:*:*:

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cpe:2.3:h:qualcomm:msm8940:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8940_firmware:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8940_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8953:-:*:*:*:*:*:*:

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

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cpe:2.3:o:qualcomm:msm8953_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8953_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8996au:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8996au:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8996au_firmware:-:*:*:*:*:*.*
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cpe:2.3:o:qualcomm:msm8996au_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8998:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8998:-:*:*:*:*:*:
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```
cpe:2.3:o:qualcomm:msm8998_firmware:-:*:*:*:*:*:*:
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```
cpe:2.3:o:qualcomm:msm8998_firmware:-:*:*:*:*:*.*
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cpe:2.3:h:qualcomm:gca6174a:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:gca6174a:-:*:*:*:*:*:

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cpe:2.3:o:qualcomm:gca6174a firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:qca6174a_firmware:-:*:*:*:*:*.*
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cpe:2.3:h:qualcomm:qca6574au:-:*:*:*:*:*:

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

```
cpe:2.3:o:qualcomm:qca6574au_firmware:-:*:*:*:*:*.*
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cpe:2.3:o:qualcomm:qca6574au_firmware:-:*:*:*:*:*.*
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cpe:2.3:h:qualcomm:gca9377:-:*:*:*:*:*:*:

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

```
cpe:2.3:o:qualcomm:gca9377 firmware:-:*:*:*:*:*:*
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cpe:2.3:o:qualcomm:gca9377 firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:gca9379:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:qca9379:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:qca9379 firmware:-:*:*:*:*:*:*
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cpe:2.3:o:qualcomm:qca9379 firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:gcn7605:-:*~*~*~*~*~*

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cpe:2.3:h:qualcomm:gcn7605:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:gcn7605 firmware:-:~::~::~:
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```
cpe:2.3:o:qualcomm:qcn7605 firmware:-:*:*:*:*:*:*
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cpe:2.3:h:qualcomm:gcs605:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:gcs605:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:qcs605_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:qcs605_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sda660:-:*:*:*:*:*:*:

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

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cpe:2.3:o:qualcomm:sda660_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sda660 firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sda845:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sda845:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:sda845_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sda845_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdm450:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdm450:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm450_firmware:-:*:*:*:*:*:
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```
cpe:2.3:o:qualcomm:sdm450 firmware:-:*:*:*:*:*.*
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cpe:2.3:h:qualcomm:sdm630:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdm630:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm630_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm630_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sdm636:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:sdm636:-:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sdm636_firmware:-:*:*:*:*:*:
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```
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:-:*:*:*:*:*:
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```
cpe:2.3:o:qualcomm:sdm660_firmware:-:*:*:*:*:*:
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00002 2-h:au:elcom:adm670. .*. *. *. *. *. *. *. *

