



CVE-2020-3656

Published on: 09/09/2020 12:00:00 AM UTC

Last Modified on: 03/23/2021 11:23:39 PM UTC

CVE-2020-3656

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF



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

Out of bound access can happen in MHI command process due to lack of check of command channel id value received from MHI devices in Snapdragon Auto, Snapdragon Compute, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wearables in APQ8009, Kamorta, MDM9607,

MSM8917, MSM8953, Nicobar, QCM2150, QCS405, QCS605, QM215, Rennell, SA6155P, SA8155P, Saipan, SC8180X, SDM429, SDM429W, SDM439, SDM450, SDM632, SDM710, SDM845, SDX55, SM6150, SM7150, SM8150, SM8250, SXR2130

CVE-2020-3656 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 Consumer IOT, Snapdragon Industrial IOT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wearables version APQ8009, Kamorta, MDM9607, MSM8917, MSM8953, Nicobar, QCM2150, QCS405, QCS605, QM215, Rennell, SA6155P, SA8155P, Saipan, SC8180X, SDM429, SDM429W, SDM439, SDM450, SDM632, SDM710, SDM845, SDX55, SM6150, SM7150, SM8150, SM8250, SXR2130

CVSS3 Score: **7.8 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	LOW	NONE
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
September 2020 Security Bulletin Qualcomm	Patch Vendor Advisory www.qualcomm.com text/html	CONFIRM www.qualcomm.com/company/product-security/bulletins/september-2020-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	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	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	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	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	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	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	Qualcomm	Rennell Firmware	-	All	All	All

System						
Operating System	Qualcomm	Rennell 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	Sa8155p	-	All	All	All
Hardware  	Qualcomm	Sa8155p	-	All	All	All
Operating System	Qualcomm	Sa8155p Firmware	-	All	All	All
Operating System	Qualcomm	Sa8155p Firmware	-	All	All	All
Hardware  	Qualcomm	Saipan	-	All	All	All
Hardware  	Qualcomm	Saipan	-	All	All	All
Operating System	Qualcomm	Saipan Firmware	-	All	All	All
Operating System	Qualcomm	Saipan 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	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	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	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	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	Sm8250	-	All	All	All
Hardware 	Qualcomm	Sm8250	-	All	All	All
Operating System	Qualcomm	Sm8250 Firmware	-	All	All	All
Operating System	Qualcomm	Sm8250 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
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:kamorta:-:*~::~:						
cpe:2.3:h:qualcomm:kamorta:-:*~::~:						
cpe:2.3:o:qualcomm:kamorta_firmware:-:*~::~:						
cpe:2.3:o:qualcomm:kamorta_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: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: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: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: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: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:gcs605:-:*:*:*:*:*:*:

```
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:rennell:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:rennell:-:*:*:*:*:*:

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

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

cpe:2.3:h:qualcomm:sa6155p:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:sa6155p:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sa6155p_firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:o:qualcomm:sa6155p_firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sa8155p:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:sa8155p:-:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sa8155p_firmware:-:*:*:*:*:*.*
```

```
cpe:2.3:o:qualcomm:sa8155p_firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:saipan:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:saipan:-:*:*:*:*:*:*:

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

```
cpe:2.3:o:qualcomm:saipan_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:sdm429:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sdm429:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sdm429w:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:sdm429w:-:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sdm429w_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sdm429w firmware:-:*:*:*:*:*:*
```

```
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: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: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: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:sm6150:-:*****:
cpe:2.3:h:qualcomm:sm6150:-:*****:
cpe:2.3:o:qualcomm:sm6150_firmware:-:*****:
cpe:2.3:o:qualcomm:sm6150_firmware:-:*****:

