



CVE-2019-2278

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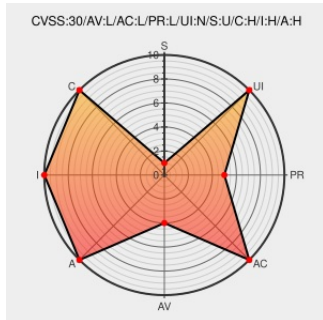
CVE-2019-2278

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[Source: NIST](#)

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Certain versions of [Mdm9607](#) from [Qualcomm](#) contain the following vulnerability:

User keystore signature is ignored in boot and can lead to bypass boot image signature verification in Snapdragon Auto, Snapdragon Consumer IOT, Snapdragon Mobile in MDM9607, MDM9640, SD 425, SD 427, SD 430, SD 435, SD 450, SD 625, SD 636, SD 712 / SD 710 / SD 670, SD 845 / SD 850, SDM660

CVE-2019-2278 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 IOT](#), [Snapdragon Mobile](#) version [MDM9607](#), [MDM9640](#), [SD 425](#), [SD 427](#), [SD 430](#), [SD 435](#), [SD 450](#), [SD 625](#), [SD 636](#), [SD 712 / SD 710 / SD 670](#), [SD 845 / SD 850](#), [SDM660](#)

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
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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	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	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	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

System						
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 636 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 710	-	All	All	All

Hardware		Sd 710	-	All	All	All
Operating System	Qualcomm	Sd 710 Firmware	-	All	All	All
Operating System	Qualcomm	Sd 710 Firmware	-	All	All	All
Hardware		Sd 712	-	All	All	All
Hardware		Sd 712	-	All	All	All
Operating System	Qualcomm	Sd 712 Firmware	-	All	All	All
Operating System	Qualcomm	Sd 712 Firmware	-	All	All	All
Hardware		Sd 845	-	All	All	All
Hardware		Sd 845	-	All	All	All
Operating System	Qualcomm	Sd 845 Firmware	-	All	All	All
Operating System	Qualcomm	Sd 845 Firmware	-	All	All	All
Hardware		Sd 850	-	All	All	All
Hardware		Sd 850	-	All	All	All
Operating System	Qualcomm	Sd 850 Firmware	-	All	All	All
Operating System	Qualcomm	Sd 850 Firmware	-	All	All	All
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: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: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:-:*:*:*:*:*:
```

one? 3'h annual comm'd 670-*.~*~*~*~*~*

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_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_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:-:*~::~

No vendor comments have been submitted for this CVE

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