



CVE-2019-13992

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CVE-2019-13992

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF



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

u'Out of bound memory access if stack push and pop operation are performed without doing a bound check on stack top' in Snapdragon Auto, Snapdragon Compute, Snapdragon Connectivity, Snapdragon Consumer Electronics Connectivity, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon Mobile, Snapdragon Voice &

Music, Snapdragon Wired Infrastructure and Networking in Bitra, IPQ6018, IPQ8074, MDM9205, Nicobar, QCA8081, QCN7605, QCS404, QCS405, QCS605, QCS610, Rennell, SA415M, SA6155P, Saipan, SC7180, SC8180X, SDA845, SDM670, SDM710, SDM845, SDM850, SDX20, SDX24, SDX55, SM6150, SM7150, SM8150, SM8250, SXR1130, SXR2130

CVE-2019-13992 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 Mobile, Snapdragon Voice & Music, Snapdragon Wired Infrastructure and Networking version Bitra, IPQ6018, IPQ8074, MDM9205, Nicobar, QCA8081, QCN7605, QCS404, QCS405, QCS605, QCS610, Rennell, SA415M, SA6155P, Saipan, SC7180, SC8180X, SDA845, SDM670, SDM710, SDM845, SDM850, SDX20, SDX24, SDX55, SM6150, SM7150, SM8150, SM8250, SXR1130, 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
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LOCAL	LOW	NONE				
Confidentiality Impact	Integrity Impact	Availability Impact				
COMPLETE	COMPLETE	COMPLETE				
CVE References						
Description	Tags	Link				
August 2020 Bulletin	Vendor Advisory www.qualcomm.com text/html	Q MISC www.qualcomm.com/company/product-security/bulletins/august-2020-security-bulletin				
August 2020 Security Bulletin Qualcomm	Broken Link www.qualcomm.com text/html	Q CONFIRM www.qualcomm.com/company/product-security/bulletins/august-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	Bitra	-	All	All	All
Hardware 	Qualcomm	Bitra	-	All	All	All
Operating System	Qualcomm	Bitra Firmware	-	All	All	All
Operating System	Qualcomm	Bitra Firmware	-	All	All	All
Hardware 	Qualcomm	lpq6018	-	All	All	All
Hardware 	Qualcomm	lpq6018	-	All	All	All
Operating System	Qualcomm	lpq6018 Firmware	-	All	All	All
Operating System	Qualcomm	lpq6018 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	Mdm9205	-	All	All	All

Hardware  	Qualcomm	Mdm9205	-	All	All	All
Operating System	Qualcomm	Mdm9205 Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9205 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	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	Qualcomm	Qcs605 Firmware	-	All	All	All

System							
Hardware  	Qualcomm	Qcs610	-	All	All	All	
Hardware  	Qualcomm	Qcs610	-	All	All	All	
Operating System	Qualcomm	Qcs610 Firmware	-	All	All	All	
Operating System	Qualcomm	Qcs610 Firmware	-	All	All	All	
Hardware  	Qualcomm	Rennell	-	All	All	All	
Hardware  	Qualcomm	Rennell	-	All	All	All	
Operating System	Qualcomm	Rennell Firmware	-	All	All	All	
Operating System	Qualcomm	Rennell Firmware	-	All	All	All	
Hardware  	Qualcomm	Sa415m	-	All	All	All	
Hardware  	Qualcomm	Sa415m	-	All	All	All	
Operating System	Qualcomm	Sa415m Firmware	-	All	All	All	
Operating System	Qualcomm	Sa415m 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	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	Sc7180	-	All	All	All	
Hardware  	Qualcomm	Sc7180	-	All	All	All	
Operating System	Qualcomm	Sc7180 Firmware	-	All	All	All	
Operating System	Qualcomm	Sc7180 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	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	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
Hardware  	Qualcomm	Sdx24	-	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
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	Sxr1130	-	All	All	All
Hardware  	Qualcomm	Sxr1130	-	All	All	All
Operating System	Qualcomm	Sxr1130 Firmware	-	All	All	All

Operating System	Qualcomm	Sxr1130 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:bitra:-:*:*:*:*:*:*:						
cpe:2.3:h:qualcomm:bitra:-:*:*:*:*:*:*:						
cpe:2.3:o:qualcomm:bitra_firmware:-:*:*:*:*:*:*:						
cpe:2.3:o:qualcomm:bitra_firmware:-:*:*:*:*:*:*:						
cpe:2.3:h:qualcomm:ipq6018:-:*:*:*:*:*:*:						
cpe:2.3:h:qualcomm:ipq6018:-:*:*:*:*:*:*:						
cpe:2.3:o:qualcomm:ipq6018_firmware:-:*:*:*:*:*:*:						
cpe:2.3:o:qualcomm:ipq6018_firmware:-:*:*:*:*:*:*:						
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:mdm9205:-:*:*:*:*:*:*:						
cpe:2.3:h:qualcomm:mdm9205:-:*:*:*:*:*:*:						
cpe:2.3:o:qualcomm:mdm9205_firmware:-:*:*:*:*:*:*:						
cpe:2.3:o:qualcomm:mdm9205_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: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:qcs610:-:*:*:*:*:*:*:

```
cpe:2.3:h:qualcomm:qcs610:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:qcs610_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:qcs610_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:sa415m:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:sa415m:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sa415m_firmware:-:*:*:*:*:*:*
```

```
cpe:2.3:o:qualcomm:sa415m_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: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:sc7180:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sc7180:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sc7180_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sc7180_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: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: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: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: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:-:*~::~:
cpe:2.3:h:qualcomm:sm7150:-:*~::~:
cpe:2.3:h:qualcomm:sm7150:-:*~::~:
cpe:2.3:o:qualcomm:sm7150_firmware:-:*~::~:
cpe:2.3:o:qualcomm:sm7150_firmware:-:*~::~:

cpe:2.3:h:qualcomm:sm8150:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sm8150:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sm8150_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sm8150_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sm8250:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sm8250:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sm8250_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sm8250_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sxr1130:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sxr1130:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sxr1130_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sxr1130_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sxr2130:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:h:qualcomm:sxr2130:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sxr2130_firmware:-:~::~~::~~::~~::~~::~~::~~:::
cpe:2.3:o:qualcomm:sxr2130_firmware:-:~::~~::~~::~~::~~::~~::~~:::

No vendor comments have been submitted for this CVE

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