CVE-2020-8899

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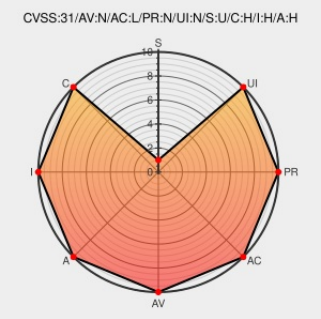
CVE-2020-8899

Source: Mitre | Source: NIST | CVE.ORG | Print: PDF



Certain versions of Android from Google contain the following vulnerability:

There is a buffer overwrite vulnerability in the Quram qmg library of Samsung's Android OS versions O(8.x), P(9.0) and Q(10.0). An unauthenticated, unauthorized attacker sending a specially crafted MMS to a vulnerable phone can trigger a heap-based buffer overflow in the Quram image codec leading to an arbitrary remote code execution (RCE) without any user interaction. The Samsung ID is SVE-2020-16747.

CVE-2020-8899 has been assigned by security@google.com to track the vulnerability - currently rated as CRITICAL severity.

Affected Vendor/Software: **Samsung** - **Android OS** version **>= 8.x**

Affected Vendor/Software: **Samsung** - **Android OS** version **= 9.0**

Affected Vendor/Software: **Samsung** - **Android OS** version **= 10.0**

CVSS3 Score: 9.8 - CRITICAL

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

CVSS2 Score: 10 - HIGH

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
COMPLETE	COMPLETE	COMPLETE

CVE References

Description	Tags	Link
2002 - project-zero - Project Zero - Monorail	Exploit Third Party Advisory bugs.chromium.org text/html	CONFIRM bugs.chromium.org/p/project-zero/issues/detail?id=2002
VU#366027 - Samsung Qmage codec for Android Skia library does not properly validate image files	www.kb.cert.org text/html	CERT-VN VU#366027
Samsung Android Remote Code Execution ≈ Packet Storm	packetstormsecurity.com text/html	MISC packetstormsecurity.com/files/157620/Samsung-Android-Remote-Code-Execution.html
Samsung Mobile Security	Vendor Advisory security.samsungmobile.com text/html	CONFIRM security.samsungmobile.com/securityUpdate.smsb

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Google	Android	10.0	All	All	All
Operating System	Google	Android	8.0	All	All	All
Operating System	Google	Android	8.1	All	All	All
Operating System	Google	Android	9.0	All	All	All
Operating System	Google	Android	10.0	All	All	All
Operating System	Google	Android	8.0	All	All	All
Operating System	Google	Android	8.1	All	All	All
Operating System	Google	Android	9.0	All	All	All

cpe:2.3:o:google:android:10.0:*:*:*:*:*:*:*:

cpe:2.3:o:google:android:8.0:*:*:*:*:*:*:*:

cpe:2.3:o:google:android:8.1:*:*:*:*:*:*:*:

cpe:2.3:o:google:android:9.0:*:*:*:*:*:*:*:

cpe:2.3:o:google:android:10.0:*:*:*:*:*:*:*:

cpe:2.3:o:google:android:8.0:*:*:*:*:*:*:*:

cpe:2.3:o:google:android:8.1:*:*:*:*:*:*:*:

cpe:2.3:o:google:android:9.0:*:*:*:*:*:*:*:

Discovery Credit

Mateusz Jurczyk of Google Project Zero

Social Mentions

Source	Title	Posted (UTC)
@RemotelyAlerts	Severity: ??? | There is a buffer overwrite vulnerabilit... | CVE-2020-8899 | Link for more: alerts.remotelyrmm.com/CVE-2020-8899	2022-10-07 01:32:15

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