



# CVE-2022-40536

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## Summary

<b>CVE</b>	CVE-2022-40536
<b>State</b>	PUBLIC
<b>Assigner</b>	product-security@qualcomm.com
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2023-06-06 08:15:00 UTC
<b>Updated</b>	2023-06-10 02:08:00 UTC
<b>Description</b>	Transient DOS due to improper authentication in modem while receiving plain TLB OTA request message from network.

## Risk And Classification

**Problem Types:** CWE-287

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	<a href="#">Qualcomm</a>	<a href="#">315 5g lot Modem</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">315 5g lot Modem Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Ar8035</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Ar8035 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Qca6390</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Qca6390 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Qca6391</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Qca6391 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Qca6421</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Qca6421 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Qca6426</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Qca6426 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Qca6431</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Qca6431 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Qca6436</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Qca6436 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Qca6574a</a>	-	All	All	All

Hardware	Qualcomm	Qca6574au	-	All	All	All
Operating System	Qualcomm	Qca6574au Firmware	-	All	All	All
Operating System	Qualcomm	Qca6574a Firmware	-	All	All	All
Hardware	Qualcomm	Qca6595au	-	All	All	All
Operating System	Qualcomm	Qca6595au Firmware	-	All	All	All
Hardware	Qualcomm	Qca6696	-	All	All	All
Operating System	Qualcomm	Qca6696 Firmware	-	All	All	All
Hardware	Qualcomm	Qca6698aq	-	All	All	All
Operating System	Qualcomm	Qca6698aq Firmware	-	All	All	All
Hardware	Qualcomm	Qca8081	-	All	All	All
Operating System	Qualcomm	Qca8081 Firmware	-	All	All	All
Hardware	Qualcomm	Qca8337	-	All	All	All
Operating System	Qualcomm	Qca8337 Firmware	-	All	All	All
Hardware	Qualcomm	Qcm4490	-	All	All	All
Operating System	Qualcomm	Qcm4490 Firmware	-	All	All	All
Hardware	Qualcomm	Qcm6490	-	All	All	All
Operating System	Qualcomm	Qcm6490 Firmware	-	All	All	All
Hardware	Qualcomm	Qcn6024	-	All	All	All
Operating System	Qualcomm	Qcn6024 Firmware	-	All	All	All
Hardware	Qualcomm	Qcn9024	-	All	All	All
Operating System	Qualcomm	Qcn9024 Firmware	-	All	All	All
Hardware	Qualcomm	Qcs4490	-	All	All	All
Operating System	Qualcomm	Qcs4490 Firmware	-	All	All	All
Hardware	Qualcomm	Qcs6490	-	All	All	All
Operating System	Qualcomm	Qcs6490 Firmware	-	All	All	All
Hardware	Qualcomm	Qcs8550	-	All	All	All
Operating System	Qualcomm	Qcs8550 Firmware	-	All	All	All
Hardware	Qualcomm	Sd855	-	All	All	All
Operating System	Qualcomm	Sd855 Firmware	-	All	All	All
Hardware	Qualcomm	Sd865 5g	-	All	All	All
Operating System	Qualcomm	Sd865 5g Firmware	-	All	All	All
Hardware	Qualcomm	Sd888	-	All	All	All
Operating System	Qualcomm	Sd888 Firmware	-	All	All	All
Hardware	Qualcomm	Sdx55	-	All	All	All
Operating System	Qualcomm	Sdx55 Firmware	-	All	All	All
Hardware	Qualcomm	Sdx57m	-	All	All	All

Hardware	<a href="#">Qualcomm</a>	<a href="#">Sdx57m</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sdx57m Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm4350</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm4350-ac</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm4350-ac Firmware</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm4350 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm4375</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm4375 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm4450</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm4450 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm6350</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm6350 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm6375</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm6375 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm7225</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm7225 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm7250-aa</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm7250-aa Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm7250-ab</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm7250-ab Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm7250-ac</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm7250-ac Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm7250p</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm7250p Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm7315</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm7315 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm7325</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm7325-ae</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm7325-ae Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm7325-af</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm7325-af Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm7325p</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm7325p Firmware</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm7325 Firmware</a>	-	All	All	All
Hardware	<a href="#">Qualcomm</a>	<a href="#">Sm7350-ab</a>	-	All	All	All
Operating System	<a href="#">Qualcomm</a>	<a href="#">Sm7350-ab Firmware</a>	-	All	All	All

Hardware	Qualcomm	Sm8150	-	All	All	All
Hardware	Qualcomm	Sm8150-ac	-	All	All	All
Operating System	Qualcomm	Sm8150-ac Firmware	-	All	All	All
Operating System	Qualcomm	Sm8150 Firmware	-	All	All	All
Hardware	Qualcomm	Sm8250	-	All	All	All
Hardware	Qualcomm	Sm8250-ab	-	All	All	All
Operating System	Qualcomm	Sm8250-ab Firmware	-	All	All	All
Hardware	Qualcomm	Sm8250-ac	-	All	All	All
Operating System	Qualcomm	Sm8250-ac Firmware	-	All	All	All
Operating System	Qualcomm	Sm8250 Firmware	-	All	All	All
Hardware	Qualcomm	Sm8350	-	All	All	All
Hardware	Qualcomm	Sm8350-ac	-	All	All	All
Operating System	Qualcomm	Sm8350-ac Firmware	-	All	All	All
Operating System	Qualcomm	Sm8350 Firmware	-	All	All	All
Hardware	Qualcomm	Sm8450	-	All	All	All
Operating System	Qualcomm	Sm8450 Firmware	-	All	All	All
Hardware	Qualcomm	Sm8475	-	All	All	All
Operating System	Qualcomm	Sm8475 Firmware	-	All	All	All
Hardware	Qualcomm	Snapdragon 7c Gen 3 Compute	-	All	All	All
Operating System	Qualcomm	Snapdragon 7c Gen 3 Compute Firmware	-	All	All	All
Hardware	Qualcomm	Snapdragon Auto 5g Modem-rf	-	All	All	All
Operating System	Qualcomm	Snapdragon Auto 5g Modem-rf Firmware	-	All	All	All
Hardware	Qualcomm	Snapdragon X55 5g Modem-rf System	-	All	All	All
Operating System	Qualcomm	Snapdragon X55 5g Modem-rf System Firmware	-	All	All	All
Hardware	Qualcomm	Snapdragon X65 5g Modem-rf System	-	All	All	All
Operating System	Qualcomm	Snapdragon X65 5g Modem-rf System Firmware	-	All	All	All
Hardware	Qualcomm	Snapdragon X70 Modem-rf System	-	All	All	All
Operating System	Qualcomm	Snapdragon X70 Modem-rf System Firmware	-	All	All	All
Hardware	Qualcomm	Snapdragon Xr2 5g Platform	-	All	All	All
Operating System	Qualcomm	Snapdragon Xr2 5g Platform Firmware	-	All	All	All
Hardware	Qualcomm	Sxr2130	-	All	All	All
Operating System	Qualcomm	Sxr2130 Firmware	-	All	All	All
Hardware	Qualcomm	Wcd9341	-	All	All	All
Operating System	Qualcomm	Wcd9341 Firmware	-	All	All	All
Hardware	Qualcomm	Wcd9360	-	All	All	All

Operating System	Qualcomm	Wcd9360 Firmware	-	All	All	All
Hardware	Qualcomm	Wcd9370	-	All	All	All
Operating System	Qualcomm	Wcd9370 Firmware	-	All	All	All
Hardware	Qualcomm	Wcd9375	-	All	All	All
Operating System	Qualcomm	Wcd9375 Firmware	-	All	All	All
Hardware	Qualcomm	Wcd9380	-	All	All	All
Operating System	Qualcomm	Wcd9380 Firmware	-	All	All	All
Hardware	Qualcomm	Wcd9385	-	All	All	All
Operating System	Qualcomm	Wcd9385 Firmware	-	All	All	All
Hardware	Qualcomm	Wcn3950	-	All	All	All
Operating System	Qualcomm	Wcn3950 Firmware	-	All	All	All
Hardware	Qualcomm	Wcn3988	-	All	All	All
Operating System	Qualcomm	Wcn3988 Firmware	-	All	All	All
Hardware	Qualcomm	Wcn3991	-	All	All	All
Operating System	Qualcomm	Wcn3991 Firmware	-	All	All	All
Hardware	Qualcomm	Wcn3998	-	All	All	All
Operating System	Qualcomm	Wcn3998 Firmware	-	All	All	All
Hardware	Qualcomm	Wcn6740	-	All	All	All
Operating System	Qualcomm	Wcn6740 Firmware	-	All	All	All
Hardware	Qualcomm	Wcn6750	-	All	All	All
Operating System	Qualcomm	Wcn6750 Firmware	-	All	All	All
Hardware	Qualcomm	Wcn685x-1	-	All	All	All
Operating System	Qualcomm	Wcn685x-1 Firmware	-	All	All	All
Hardware	Qualcomm	Wcn685x-5	-	All	All	All
Operating System	Qualcomm	Wcn685x-5 Firmware	-	All	All	All
Hardware	Qualcomm	Wcn785x-1	-	All	All	All
Operating System	Qualcomm	Wcn785x-1 Firmware	-	All	All	All
Hardware	Qualcomm	Wcn785x-5	-	All	All	All
Operating System	Qualcomm	Wcn785x-5 Firmware	-	All	All	All
Hardware	Qualcomm	Wsa8810	-	All	All	All
Operating System	Qualcomm	Wsa8810 Firmware	-	All	All	All
Hardware	Qualcomm	Wsa8815	-	All	All	All
Operating System	Qualcomm	Wsa8815 Firmware	-	All	All	All
Hardware	Qualcomm	Wsa8830	-	All	All	All
Operating System	Qualcomm	Wsa8830 Firmware	-	All	All	All
Hardware	Qualcomm	Wsa8832	-	All	All	All

Hardware	Qualcomm	Wsa8832	-	All	All	All
Operating System	Qualcomm	Wsa8832 Firmware	-	All	All	All
Hardware	Qualcomm	Wsa8835	-	All	All	All
Operating System	Qualcomm	Wsa8835 Firmware	-	All	All	All

## References

Reference	Source	Link	Tags
Qualcomm Documentation	MISC	<a href="http://www.qualcomm.com">www.qualcomm.com</a>	
CVE Program record	CVE.ORG	<a href="http://www.cve.org">www.cve.org</a>	canonical
NVD vulnerability detail	NVD	<a href="http://nvd.nist.gov">nvd.nist.gov</a>	canonical, analysis

No vendor comments have been submitted for this CVE.

## Legacy QID Mappings

<a href="#">610494</a> Google Android July 2023 Security Patch Missing for Samsung
<a href="#">610503</a> Google Android Devices June 2023 Security Patch Missing

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