



# CVE-2023-20558

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## Summary

<b>CVE</b>	CVE-2023-20558
<b>State</b>	PUBLIC
<b>Assigner</b>	psirt@amd.com
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2023-04-02 21:15:00 UTC
<b>Updated</b>	2023-11-07 04:06:00 UTC
<b>Description</b>	Insufficient control flow management in AmdCpmOemSmm may allow a privileged attacker to tamper with the SMM handle

## Risk And Classification

**Problem Types:** NVD-CWE-Other

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	<a href="#">Amd</a>	<a href="#">Athlon Gold 3150u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Athlon Gold 3150u Firmware</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Athlon Silver 3050u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Athlon Silver 3050u Firmware</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 3 2200u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 3 2200u Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 3 2300u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 3 2300u Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 3 3200u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 3 3200u Firmware</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 3 3250u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 3 3250u Firmware</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 3 3300u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 3 3300u Firmware</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 3 3300x</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 3 3300x Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 3 3350u</a>	-	All	All	All

Operating System	Amd	Ryzen 3 3350u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3450u	-	All	All	All
Operating System	Amd	Ryzen 3 3450u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3500c	-	All	All	All
Operating System	Amd	Ryzen 3 3500c Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3500u	-	All	All	All
Operating System	Amd	Ryzen 3 3500u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3550h	-	All	All	All
Operating System	Amd	Ryzen 3 3550h Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3580u	-	All	All	All
Operating System	Amd	Ryzen 3 3580u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3700c	-	All	All	All
Operating System	Amd	Ryzen 3 3700c Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3700u	-	All	All	All
Operating System	Amd	Ryzen 3 3700u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3750h	-	All	All	All
Operating System	Amd	Ryzen 3 3750h Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3780u	-	All	All	All
Operating System	Amd	Ryzen 3 3780u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 4300g	-	All	All	All
Hardware	Amd	Ryzen 3 4300ge	-	All	All	All
Operating System	Amd	Ryzen 3 4300ge Firmware	All	All	All	All
Operating System	Amd	Ryzen 3 4300g Firmware	All	All	All	All
Hardware	Amd	Ryzen 3 5125c	-	All	All	All
Operating System	Amd	Ryzen 3 5125c Firmware	All	All	All	All
Hardware	Amd	Ryzen 3 5300g	-	All	All	All
Hardware	Amd	Ryzen 3 5300ge	-	All	All	All
Operating System	Amd	Ryzen 3 5300ge Firmware	All	All	All	All
Operating System	Amd	Ryzen 3 5300g Firmware	All	All	All	All
Hardware	Amd	Ryzen 3 5400u	-	All	All	All
Operating System	Amd	Ryzen 3 5400u Firmware	All	All	All	All
Hardware	Amd	Ryzen 3 5425c	-	All	All	All
Operating System	Amd	Ryzen 3 5425c Firmware	All	All	All	All
Hardware	Amd	Ryzen 3 5425u	-	All	All	All
Operating System	Amd	Ryzen 3 5425u Firmware	All	All	All	All

Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 2500u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 2500u Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 2600</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 2600h</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 2600h Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 2600x</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 2600x Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 2600 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 2700</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 2700x</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 2700x Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 2700 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 3500</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 3500x</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 3500x Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 3500 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 3600</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 3600x</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 3600xt</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 3600xt Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 3600x Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 3600 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 4600g</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 4600ge</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 4600ge Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 4600g Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 5560u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 5560u Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 5600g</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 5600ge</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 5600ge Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 5600g Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 5600h</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 5600hs</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 5600hs Firmware</a>	All	All	All	All

Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 5600h Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 5600u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 5600u Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 5625c</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 5625c Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 5 5625u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 5 5625u Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 2700</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 2700u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 2700u Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 2700x</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 2700x Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 2700 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 2800h</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 2800h Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 3700x</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 3700x Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 3800x</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 3800xt</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 3800xt Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 3800x Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 4700g</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 4700ge</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 4700ge Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 4700g Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 5700g</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 5700ge</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 5700ge Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 5700g Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 5800h</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 5800hs</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 5800hs Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 5800h Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 5800u</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Ryzen 7 5800u Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Ryzen 7 5825c</a>	-	All	All	All

Operating System	Amd	Ryzen 7 5825c Firmware	All	All	All	All
Hardware	Amd	Ryzen 7 5825u	-	All	All	All
Operating System	Amd	Ryzen 7 5825u Firmware	All	All	All	All
Hardware	Amd	Ryzen 9 3900	-	All	All	All
Hardware	Amd	Ryzen 9 3900x	-	All	All	All
Hardware	Amd	Ryzen 9 3900xt	-	All	All	All
Operating System	Amd	Ryzen 9 3900xt Firmware	All	All	All	All
Operating System	Amd	Ryzen 9 3900x Firmware	All	All	All	All
Operating System	Amd	Ryzen 9 3900 Firmware	All	All	All	All
Hardware	Amd	Ryzen 9 3950x	-	All	All	All
Operating System	Amd	Ryzen 9 3950x Firmware	All	All	All	All
Hardware	Amd	Ryzen 9 5900hs	-	All	All	All
Operating System	Amd	Ryzen 9 5900hs Firmware	All	All	All	All
Hardware	Amd	Ryzen 9 5900hx	-	All	All	All
Operating System	Amd	Ryzen 9 5900hx Firmware	All	All	All	All
Hardware	Amd	Ryzen 9 5980hs	-	All	All	All
Operating System	Amd	Ryzen 9 5980hs Firmware	All	All	All	All
Hardware	Amd	Ryzen 9 5980hx	-	All	All	All
Operating System	Amd	Ryzen 9 5980hx Firmware	All	All	All	All
Hardware	Amd	Ryzen 9 Pro 3900	-	All	All	All
Operating System	Amd	Ryzen 9 Pro 3900 Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper 2920x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2920x Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper 2950x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2950x Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper 2970wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2970wx Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper 2990wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2990wx Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper 3960x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 3960x Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper 3970x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 3970x Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper 3990x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 3990x Firmware	All	All	All	All

Hardware	Amd	Ryzen Threadripper Pro 3795wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 3795wx Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 3945wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 3945wx Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 3955wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 3955wx Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 3975wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 3975wx Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 3995wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 3995wx Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5945wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5945wx Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5955wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5955wx Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5965wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5965wx Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5975wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5975wx Firmware	All	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5995wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5995wx Firmware	All	All	All	All

## References

Reference	Source	Link	Tags
<a href="http://www.amd.com/en/resources/product-security/bulletin/amd-sb-1027.html">www.amd.com/en/resources/product-security/bulletin/amd-sb-1027.html</a>	MISC	<a href="http://www.amd.com">www.amd.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.

There are currently no legacy QID mappings associated with this CVE.

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