



CVE-2018-8453

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Summary

CVE	CVE-2018-8453
State	PUBLIC
Assigner	secure@microsoft.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2018-10-10 13:29:00 UTC
Updated	2019-10-03 00:03:00 UTC
Description	An elevation of privilege vulnerability exists in Windows when the Win32k component fails to properly handle objects in mer

Risk And Classification

EPSS: 0.813250000 probability, percentile 0.991800000 (date 2026-05-08)

CISA KEV: Listed on 2022-01-21; due 2022-07-21; ransomware use Known

Problem Types: CWE-404

CISA Known Exploited Vulnerability

Vendor	Microsoft
Product	Win32k
Name	Microsoft Win32k Privilege Escalation Vulnerability
Required Action	Apply updates per vendor instructions.
Notes	https://nvd.nist.gov/vuln/detail/CVE-2018-8453

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Microsoft	Windows 10	-	All	All	All
Operating System	Microsoft	Windows 10	1607	All	All	All
Operating System	Microsoft	Windows 10	1703	All	All	All
Operating System	Microsoft	Windows 10	1709	All	All	All
Operating System	Microsoft	Windows 10	1803	All	All	All
Operating System	Microsoft	Windows 10	1809	All	All	All
Operating System	Microsoft	Windows 10	-	All	All	All
Operating System	Microsoft	Windows 10	1607	All	All	All

Operating System	Microsoft	Windows 10	1703	All	All	All
Operating System	Microsoft	Windows 10	1709	All	All	All
Operating System	Microsoft	Windows 10	1803	All	All	All
Operating System	Microsoft	Windows 10	1809	All	All	All
Operating System	Microsoft	Windows 7	-	sp1	All	All
Operating System	Microsoft	Windows 7	-	sp1	All	All
Operating System	Microsoft	Windows 8.1	All	All	All	All
Operating System	Microsoft	Windows 8.1	All	All	All	All
Operating System	Microsoft	Windows Rt 8.1	-	All	All	All
Operating System	Microsoft	Windows Rt 8.1	-	All	All	All
Operating System	Microsoft	Windows Server 2008	-	sp2	All	All
Operating System	Microsoft	Windows Server 2008	r2	sp1	All	All
Operating System	Microsoft	Windows Server 2008	-	sp2	All	All
Operating System	Microsoft	Windows Server 2008	r2	sp1	All	All
Operating System	Microsoft	Windows Server 2012	-	All	All	All
Operating System	Microsoft	Windows Server 2012	r2	All	All	All
Operating System	Microsoft	Windows Server 2012	-	All	All	All
Operating System	Microsoft	Windows Server 2012	r2	All	All	All
Operating System	Microsoft	Windows Server 2016	-	All	All	All
Operating System	Microsoft	Windows Server 2016	1709	All	All	All
Operating System	Microsoft	Windows Server 2016	1803	All	All	All
Operating System	Microsoft	Windows Server 2016	-	All	All	All
Operating System	Microsoft	Windows Server 2016	1709	All	All	All
Operating System	Microsoft	Windows Server 2016	1803	All	All	All
Operating System	Microsoft	Windows Server 2019	-	All	All	All
Operating System	Microsoft	Windows Server 2019	-	All	All	All

References						
Reference				Source	Link	
Microsoft Windows Kernel 'Win32k.sys' CVE-2018-8453 Local Privilege Escalation Vulnerability				BID	www.securityfocus.com	
Windows Kernel Lets Local Users Gain Elevated Privileges - SecurityTracker				SECTRAK	www.securitytracker.com	
portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2018-8453				CONFIRM	portal.msrc.microsoft.com	
Microsoft Windows NtUserSetWindowFNID Win32k User Callback ≈ Packet Storm				MISC	packetstormsecurity.com	
Zero-day exploit (CVE-2018-8453) used in targeted attacks Securelist				MISC	securelist.com	
CVE Program record				CVE.ORG	www.cve.org	

NVD vulnerability detail	NVD	nvd.nist.gov
CISA Known Exploited Vulnerabilities catalog	CISA	www.cisa.gov

No vendor comments have been submitted for this CVE.

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

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