WinVerifyTrust Signature Validation Vulnerability

MITRE | NVD | CVE.ORG | JSON API | Print: PDF

Summary

CVE	CVE-2013-3900
State	PUBLISHED
Assigner	microsoft
Source Priority	CVE Program / NVD first with legacy fallback
Published	2013-12-11 00:55:03 UTC
Updated	2026-04-22 16:46:58 UTC
Description	Why is Microsoft republishing a CVE from 2013? We are republishing CVE-2013-3900 in the Security Update Guide to upd

Risk And Classification

Primary CVSS: v3.1 8.8 HIGH from nvd@nist.gov

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

EPSS: 0.780650000 probability, percentile 0.990180000 (date 2026-04-22)

CISA KEV: Listed on 2022-01-10; due 2022-07-10; ransomware use Unknown

Problem Types: CWE-347 | CWE-347 CWE-347: Improper Verification of Cryptographic Signature | CWE-347 CWE-347 Improper Verification of Cryptographic Signature

Version	Source	Type	Score	Severity	Vector
3.1	nvd@nist.gov	Secondary	8.8	HIGH	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H
3.1	ADP	DECLARED	8.8	HIGH	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H
3.1	secure@microsoft.com	Secondary	5.5	MEDIUM	CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:N/I:H/A:N
3.1	134c704f-9b21-4f2e-91b3-4a467353bcc0	Secondary	8.8	HIGH	CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H
3.1	CNA	CVSS	5.5	MEDIUM	CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:N/I:H/A:N/E:
2.0	nvd@nist.gov	Primary	7.6		AV:N/AC:H/Au:N/C:C/I:C/A:C

CVSS v3.1 Breakdown

Attack Vector

Network

Attack Complexity

Low

Privileges Required

None

User Interaction

Required

Scope

Unchanged

Confidentiality

High

Integrity

High

Availability

High

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

CVSS v2.0 Breakdown

Access Vector

Network

Access Complexity

High

Authentication

None

Confidentiality

Complete

Integrity

Complete

Availability

Complete

AV:N/AC:H/Au:N/C:C/I:C/A:C

CISA Known Exploited Vulnerability

Vendor	Microsoft
Product	WinVerifyTrust function
Name	Microsoft WinVerifyTrust function Remote Code Execution
Required Action	Apply updates per vendor instructions.
Notes	https://nvd.nist.gov/vuln/detail/CVE-2013-3900

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Microsoft	Windows 10 1507	-	All	All	All
Operating System	Microsoft	Windows 10 1607	-	All	All	All
Operating System	Microsoft	Windows 10 1607	-	All	All	All

Operating System	Microsoft	Windows 10 1809	-	All	All	All
Operating System	Microsoft	Windows 10 1809	-	All	All	All
Operating System	Microsoft	Windows 10 1809	-	All	All	All
Operating System	Microsoft	Windows 10 1909	-	All	All	All
Operating System	Microsoft	Windows 10 20h2	-	All	All	All
Operating System	Microsoft	Windows 10 21h1	-	All	All	All
Operating System	Microsoft	Windows 10 21h2	-	All	All	All
Operating System	Microsoft	Windows 10 22h2	-	All	All	All
Operating System	Microsoft	Windows 11 21h2	-	All	All	All
Operating System	Microsoft	Windows 11 21h2	-	All	All	All
Operating System	Microsoft	Windows 11 22h2	-	All	All	All
Operating System	Microsoft	Windows 11 22h2	-	All	All	All
Operating System	Microsoft	Windows 11 23h2	-	All	All	All
Operating System	Microsoft	Windows 11 23h2	-	All	All	All
Operating System	Microsoft	Windows 11 24h2	-	All	All	All
Operating System	Microsoft	Windows 11 24h2	-	All	All	All
Operating System	Microsoft	Windows 7	-	sp1	All	All
Operating System	Microsoft	Windows 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 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 2019	-	All	All	All
Operating System	Microsoft	Windows Server 2022	-	All	All	All
Operating System	Microsoft	Windows Server 2022 23h2	-	All	All	All
Operating System	Microsoft	Windows Server 2025	-	All	All	All

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	Microsoft	Windows 10 Version 1809	affected N/A	32-bit Systems, x64-based Systems
CNA	Microsoft	Windows 10 Version 1809	affected N/A	ARM64-based Systems
CNA	Microsoft	Windows Server 2019	affected N/A	x64-based Systems
CNA	Microsoft	Windows Server 2019 Server Core Installation	affected N/A	x64-based Systems
CNA	Microsoft	Windows Server 2022	affected N/A	x64-based Systems

CNA	Microsoft	Windows Server 2022	affected N/A	x64-based Systems
CNA	Microsoft	Windows 11 Version 21H2	affected N/A	x64-based Systems, ARM64-based
CNA	Microsoft	Windows 10 Version 21H2	affected N/A	32-bit Systems, ARM64-based Syste
CNA	Microsoft	Windows 11 Version 22H2	affected N/A	ARM64-based Systems, x64-based
CNA	Microsoft	Windows 10 Version 22H2	affected N/A	x64-based Systems, ARM64-based
CNA	Microsoft	Windows Server 2025 Server Core Installation	affected N/A	x64-based Systems
CNA	Microsoft	Windows 11 Version 22H3	affected N/A	ARM64-based Systems
CNA	Microsoft	Windows 11 Version 23H2	affected N/A	x64-based Systems
CNA	Microsoft	Windows Server 2022 23H2 Edition Server Core Installation	affected N/A	x64-based Systems
CNA	Microsoft	Windows 11 Version 24H2	affected N/A	ARM64-based Systems, x64-based
CNA	Microsoft	Windows Server 2025	affected N/A	x64-based Systems
CNA	Microsoft	Windows 10 Version 1507	affected N/A	32-bit Systems, x64-based Systems
CNA	Microsoft	Windows 10 Version 1607	affected N/A	32-bit Systems, x64-based Systems
CNA	Microsoft	Windows Server 2016	affected N/A	x64-based Systems
CNA	Microsoft	Windows Server 2016 Server Core Installation	affected N/A	x64-based Systems
CNA	Microsoft	Windows Server 2008 Service Pack 2	affected N/A	32-bit Systems
CNA	Microsoft	Windows Server 2008 Service Pack 2 Server Core Installation	affected N/A	32-bit Systems, x64-based Systems
CNA	Microsoft	Windows Server 2008 Service Pack 2	affected N/A	x64-based Systems
CNA	Microsoft	Windows Server 2008 R2 Service Pack 1	affected N/A	x64-based Systems
CNA	Microsoft	Windows Server 2008 R2 Service Pack 1 Server Core Installation	affected N/A	x64-based Systems
CNA	Microsoft	Windows Server 2012	affected N/A	x64-based Systems
CNA	Microsoft	Windows Server 2012 Server Core Installation	affected N/A	x64-based Systems
CNA	Microsoft	Windows Server 2012 R2	affected N/A	x64-based Systems
CNA	Microsoft	Windows Server 2012 R2 Server Core Installation	affected N/A	x64-based Systems

References

Reference	Source
Security Update Guide - Microsoft Security Response Center	af854a3a-2127-42
MS13-098: Update to enhance the security of Authenticode - Security Research & Defense - Site Home - TechNet Blogs	af854a3a-2127-42
www.cisa.gov/known-exploited-vulnerabilities-catalog	134c704f-9b21-4f2
Microsoft Security Bulletin MS13-098 - Critical | Microsoft Docs	af854a3a-2127-42
CVE Program record	CVE.ORG
NVD vulnerability detail	NVD
CISA Known Exploited Vulnerabilities catalog	CISA

No vendor comments have been submitted for this CVE.

Additional Advisory Data

Source	Time	Event
ADP	2022-01-10T00:00:00.000Z	CVE-2013-3900 added to CISA KEV

Legacy QID Mappings

378332 WinVerifyTrust Signature Validation Vulnerability