



CVE-2020-28601

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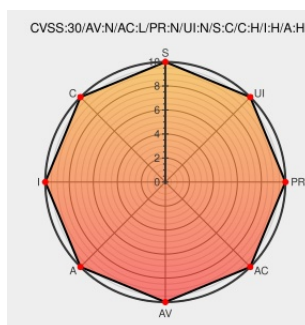
CVE-2020-28601

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF



Certain versions of [Computational Geometry Algorithms Library](#) from [Cgal](#) contain the following vulnerability:

A code execution vulnerability exists in the Nef polygon-parsing functionality of CGAL libcgcal CGAL-5.1.1. An oob read vulnerability exists in Nef_2/PM_io_parser.h PM_io_parser::read_vertex() Face_of[] OOB read. An attacker can provide malicious input to trigger this vulnerability.

CVE-2020-28601 has been assigned by [talos-cna@cisco.com](#) to track the vulnerability - currently rated as **CRITICAL** severity.

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: **7.5 - HIGH**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
[SECURITY] [DLA 3226-1] cgal security update	lists.debian.org text/html	MLIST [debian-lts-announce] 20221206 [SECURITY] [DLA 3226-1] cgal security update
[SECURITY] Fedora 33 Update: CGAL 5.1.3-1.fc33 -	lists.fedoraproject.org	FEDORA FEDORA-2021-9de542ab4c

[SECURITY] Fedora 34 Update: CGAL 5.10.1.fc34 package-announce - Fedora Mailing-Lists	lists.fedoraproject.org text/html	 FEDORA FEDORA-2021-0d42c7cb33
[SECURITY] Fedora 34 Update: CGAL 5.10.1.fc34 - package-announce - Fedora Mailing-Lists	lists.fedoraproject.org text/html	 FEDORA FEDORA-2021-0d42c7cb33
TALOS-2020-1225 Cisco Talos Intelligence Group - Comprehensive Threat Intelligence	Technical Description Third Party Advisory talosintelligence.com text/html	 MISC talosintelligence.com/vulnerability_reports/TALOS-2020-1225
[SECURITY] [DLA 2649-1] cgal security update	lists.debian.org text/html	 MLIST [debian-lts-announce] 20210505 [SECURITY] [DLA 2649-1] cgal security update
CGAL: Multiple Vulnerabilities (GLSA 202305-34) — Gentoo security	security.gentoo.org text/html	 GENTOO GLSA-202305-34

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Related QID Numbers

- [178595](#) Debian Security Update for cgal (DLA 2649-1)
- [181304](#) Debian Security Update for cgal (DLA 3226-1)
- [281708](#) Fedora Security Update for CGAL (FEDORA-2021-9de542ab4c)
- [281709](#) Fedora Security Update for CGAL (FEDORA-2021-0d42c7cb33)
- [710741](#) Gentoo Linux CGAL Multiple Vulnerabilities (GLSA 202305-34)

Exploit/POC from Github

This repository contains a collection of data files on known Common Vulnerabilities and Exposures (CVEs). Each file i...

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Cgal	Computational Geometry Algorithms Library	5.1.1	All	All	All
Application	Cgal	Computational Geometry Algorithms Library	5.1.1	All	All	All
Operating System	Debian	Debian Linux	10.0	All	All	All
Operating System	Debian	Debian Linux	9.0	All	All	All
Operating System	Fedoraproject	Fedora	33	All	All	All
Operating System	Fedoraproject	Fedora	34	All	All	All
cpe:2.3:a:cgal:computational_geometry_algorithms_library:5.1.1:****:*:*:						
cpe:2.3:a:cgal:computational_geometry_algorithms_library:5.1.1:****:*:*:						

cpe:2.3:a:cgat:computational_geometry_algorithm:_library:0.1.1:..:..:..:..
cpe:2.3:o:debian:debian_linux:10.0:*:*:*:*:*:
cpe:2.3:o:debian:debian_linux:9.0:*:*:*:*:*:
cpe:2.3:o:fedoraproject:fedora:33:*:*:*:*:*:
cpe:2.3:o:fedoraproject:fedora:34:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @vigilance_fr	Vigil@nce #Vulnérabilité de CGAL : quatre vulnérabilités. vigilance.fr/vulnerabilite/... Références : #CVE-2020-28601,... twitter.com/i/web/status/1...	2021-03-29 10:09:03
 @vigilance_en	Vigil@nce #Vulnerability of CGAL: four vulnerabilities. vigilance.fr/vulnerability/... Identifiers: #CVE-2020-28601, #CVE-... twitter.com/i/web/status/1...	2021-03-29 10:09:04

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