



CVE-2021-42521

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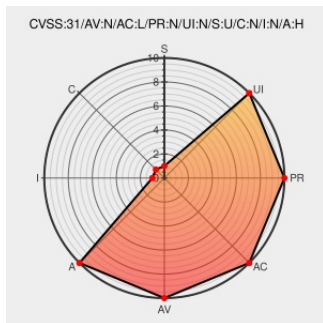
CVE-2021-42521

[Source: Mitre](#)

[Source: NIST](#)

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Certain versions of [Vtk](#) from [Vtk](#) contain the following vulnerability:

There is a NULL pointer dereference vulnerability in VTK before 9.2.5, and it lies in IO/Infovis/vtkXMLTreeReader.cxx. The vendor didn't check the return value of libxml2 API 'xmlDocGetRootElement', and try to dereference it. It is unsafe as the return value can be NULL and that NULL pointer dereference may crash the application.

CVE-2021-42521 has been assigned by patrick@puiterwijk.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.5 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	NONE	NONE	HIGH

CVE References

Description	Tags	Link
Potential NULL pointer dereference : forgetting to check the return value of libxml2 API xmlDocGetRootElement (#17818) · Issues · VTK / VTK · GitLab	gitlab.kitware.com text/html	gitlab.kitware.com/vtk/vtk/issues/17818
[SECURITY] Fedora 37 Update: vtk-9.1.0-18.fc37 - package-announce - Fedora Mailing-Lists	lists.fedoraproject.org text/html	FEDORA FEDORA-2023-2cf9dd7d52
VTK 9.2.5 is out - Announcements - VTK	discourse.vtk.org text/html	CONFIRM discourse.vtk.org/t/vtk-9-2-5-is-out/10549

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Related OIDs Numbers

Related GID Numbers

283972 Fedora Security Update for vtk (FEDORA-2023-2cf9dd7d52)


Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Vtk	Vtk	All	All	All	All

cpe:2.3:a:vtk:vtk:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2021-42521 : There is a NULL pointer dereference vulnerability in VTK, and it lies in IO/Infovis/vtkXMLTreeRead... twitter.com/i/web/status/1...	2022-08-25 18:10:14
 /r/netcve	CVE-2021-42521	2022-08-25 19:01:28

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