



# CVE-2019-20395

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF !\[\]\(003082e50e3009141f59bd5df831749f\_img.jpg\)](#)

## Summary

<b>CVE</b>	CVE-2019-20395
<b>State</b>	PUBLIC
<b>Assigner</b>	cve@mitre.org
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2020-01-22 22:15:00 UTC
<b>Updated</b>	2023-09-19 22:15:00 UTC
<b>Description</b>	A stack consumption issue is present in libyang before v1.0-r1 due to the self-referential union type containing leafrefs. App

## Risk And Classification

**Problem Types:** CWE-674

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Cesnet	Libyang	0.11	r1	All	All
Application	Cesnet	Libyang	0.11	r2	All	All
Application	Cesnet	Libyang	0.12	r1	All	All
Application	Cesnet	Libyang	0.12	r2	All	All
Application	Cesnet	Libyang	0.13	r1	All	All
Application	Cesnet	Libyang	0.13	r2	All	All
Application	Cesnet	Libyang	0.14	r1	All	All
Application	Cesnet	Libyang	0.15	r1	All	All
Application	Cesnet	Libyang	0.16	r1	All	All
Application	Cesnet	Libyang	0.16	r2	All	All
Application	Cesnet	Libyang	0.16	r3	All	All
Application	Cesnet	Libyang	0.11	r1	All	All
Application	Cesnet	Libyang	0.11	r2	All	All
Application	Cesnet	Libyang	0.12	r1	All	All
Application	Cesnet	Libyang	0.12	r2	All	All
Application	Cesnet	Libyang	0.13	r1	All	All
Application	Cesnet	Libyang	0.13	r2	All	All

Application	<a href="#">Cesnet</a>	<a href="#">Libyang</a>	0.14	r1	All	All
Application	<a href="#">Cesnet</a>	<a href="#">Libyang</a>	0.15	r1	All	All
Application	<a href="#">Cesnet</a>	<a href="#">Libyang</a>	0.16	r1	All	All
Application	<a href="#">Cesnet</a>	<a href="#">Libyang</a>	0.16	r2	All	All
Application	<a href="#">Cesnet</a>	<a href="#">Libyang</a>	0.16	r3	All	All

## References

Reference	Source
1793924 – (CVE-2019-20395) CVE-2019-20395 libyang: stack-overflow when parsing yang files with self-referential union types	MISC
Comparing v0.16-r3...v1.0-r1 · CESNET/libyang · GitHub	MISC
Segmentation fault due to self-referential union type containing leafrefs · Issue #724 · CESNET/libyang · GitHub	MISC
resolve BUGFIX handle cyclic typedefs with unions · CESNET/libyang@4e610cc · GitHub	MISC
[SECURITY] [DLA 3572-1] libyang security update	MLIST
CVE Program record	CVE.ORG
NVD vulnerability detail	NVD

No vendor comments have been submitted for this CVE.

## Legacy QID Mappings

[6000044](#) Debian Security Update for libyang (DLA 3572-1)

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