



# Xorg: xwayland: buffer overflow in xkbchangetypesofkey()

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF](#)

## Summary

<b>CVE</b>	CVE-2025-26597
<b>State</b>	PUBLISHED
<b>Assigner</b>	redhat
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2025-02-25 16:15:38 UTC
<b>Updated</b>	2026-04-06 13:17:15 UTC
<b>Description</b>	A buffer overflow flaw was found in X.Org and Xwayland. If XkbChangeTypesOfKey() is called with a 0 group, it will resize t

## Risk And Classification

**Primary CVSS:** v3.1 7.8 HIGH from nvd@nist.gov

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

**EPSS:** 0.000210000 probability, percentile 0.057310000 (date 2026-04-07)

**Problem Types:** CWE-119 | CWE-119 Improper Restriction of Operations within the Bounds of a Memory Buffer

Version	Source	Type	Score	Severity	Vector
3.1	nvd@nist.gov	Primary	7.8	HIGH	CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H
3.1	secalert@redhat.com	Secondary	7.8	HIGH	CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H
3.1	CNA	CVSS	7.8	HIGH	CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H

## CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Unchanged

Confidentiality

High

Integrity

High

Availability

High

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

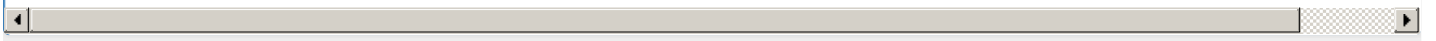
### NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Redhat	Enterprise Linux	7.0	All	All	All
Operating System	Redhat	Enterprise Linux	8.0	All	All	All
Operating System	Redhat	Enterprise Linux	9.0	All	All	All
Application	Tigervnc	Tigervnc	-	All	All	All
Application	X.org	Xwayland	All	All	All	All
Application	X.org	X Server	All	All	All	All

### Vendor Declared Affected Products

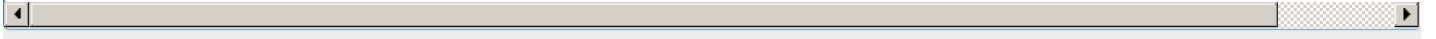
Source	Vendor	Product	Version	Platform
CNA	Red Hat	Red Hat Enterprise Linux 10	unaffected 0:24.1.5-3.el10_0 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 6 Extended Lifecycle Support - EXTENSION	unaffected 0:1.1.0-25.el6_10 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 7 Extended Lifecycle Support	unaffected 0:1.8.0-36.el7_9 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 7 Extended Lifecycle Support	unaffected 0:1.20.4-30.el7_9 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 8	unaffected 0:1.13.1-15.el8_10 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 8.2 Advanced Update Support	unaffected 0:1.9.0-15.el8_2.13 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 8.4 Advanced Mission Critical Update Support	unaffected 0:1.11.0-8.el8_4.12 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 8.4 Telecommunications Update Service	unaffected 0:1.11.0-8.el8_4.12 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 8.4 Update Services For SAP Solutions	unaffected 0:1.11.0-8.el8_4.12 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 8.6 Advanced Mission Critical Update Support	unaffected 0:1.12.0-6.el8_6.13 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 8.6 Telecommunications Update Service	unaffected 0:1.12.0-6.el8_6.13 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 8.6 Update Services For SAP Solutions	unaffected 0:1.12.0-6.el8_6.13 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 8.8 Extended Update Support	unaffected 0:1.12.0-15.el8_8.12 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 9	unaffected 0:1.14.1-1.el9_5.1 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 9	unaffected 0:1.20.11-28.el9_6 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 9	unaffected 0:23.2.7-3.el9_6 * rpm	Not s
CNA	Red Hat	Red Hat Enterprise Linux 9.0 Update Services For SAP Solutions	unaffected 0:1.11.0-22.el9_0.13 * rpm	Not s

CNA	Red Hat	<a href="#">Red Hat Enterprise Linux 9.2 Extended Update Support</a>	unaffected 0:1.12.0-14.el9_2.10 * rpm	Not s
CNA	Red Hat	<a href="#">Red Hat Enterprise Linux 9.4 Extended Update Support</a>	unaffected 0:1.13.1-8.el9_4.5 * rpm	Not s
CNA	Red Hat	<a href="#">Red Hat Enterprise Linux 6</a>	Not specified	Not s
CNA	Red Hat	<a href="#">Red Hat Enterprise Linux 8</a>	Not specified	Not s
CNA	Red Hat	<a href="#">Red Hat Enterprise Linux 8</a>	Not specified	Not s



## References

Reference	Source	Link	Tags
<a href="https://access.redhat.com/errata/RHSA-2025:2879">access.redhat.com/errata/RHSA-2025:2879</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	Third Party
<a href="https://access.redhat.com/errata/RHSA-2025:3976">access.redhat.com/errata/RHSA-2025:3976</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	
<a href="https://access.redhat.com/security/cve/CVE-2025-26597">access.redhat.com/security/cve/CVE-2025-26597</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	Third Party
<a href="https://bugzilla.redhat.com/show_bug.cgi">bugzilla.redhat.com/show_bug.cgi</a>	secalert@redhat.com	<a href="https://bugzilla.redhat.com">bugzilla.redhat.com</a>	Issue Trac
<a href="https://access.redhat.com/errata/RHSA-2025:7163">access.redhat.com/errata/RHSA-2025:7163</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	
<a href="https://access.redhat.com/errata/RHSA-2025:7165">access.redhat.com/errata/RHSA-2025:7165</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	
<a href="https://access.redhat.com/errata/RHSA-2025:2502">access.redhat.com/errata/RHSA-2025:2502</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	Third Party
<a href="https://access.redhat.com/errata/RHSA-2025:2861">access.redhat.com/errata/RHSA-2025:2861</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	Third Party
<a href="https://access.redhat.com/errata/RHSA-2025:2874">access.redhat.com/errata/RHSA-2025:2874</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	Third Party
<a href="https://access.redhat.com/errata/RHSA-2025:2862">access.redhat.com/errata/RHSA-2025:2862</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	Third Party
<a href="https://lists.debian.org/debian-lts-announce/2025/02/msg00036.html">lists.debian.org/debian-lts-announce/2025/02/msg00036.html</a>	af854a3a-2127-422b-91ae-364da2661108	<a href="https://lists.debian.org">lists.debian.org</a>	
<a href="https://access.redhat.com/errata/RHSA-2025:2866">access.redhat.com/errata/RHSA-2025:2866</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	Third Party
<a href="https://access.redhat.com/errata/RHSA-2025:2873">access.redhat.com/errata/RHSA-2025:2873</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	Third Party
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<a href="https://access.redhat.com/errata/RHSA-2025:2500">access.redhat.com/errata/RHSA-2025:2500</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	Third Party
<a href="https://access.redhat.com/errata/RHSA-2025:2880">access.redhat.com/errata/RHSA-2025:2880</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	Third Party
<a href="https://access.redhat.com/errata/RHSA-2025:7458">access.redhat.com/errata/RHSA-2025:7458</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	
<a href="https://access.redhat.com/errata/RHSA-2025:2875">access.redhat.com/errata/RHSA-2025:2875</a>	secalert@redhat.com	<a href="https://access.redhat.com">access.redhat.com</a>	Third Party
CVE Program record	CVE.ORG	<a href="https://www.cve.org">www.cve.org</a>	canonical
NVD vulnerability detail	NVD	<a href="https://nvd.nist.gov">nvd.nist.gov</a>	canonical,



No vendor comments have been submitted for this CVE.

## Additional Advisory Data

Source	Time	Event
CNA	2025-02-12T14:15:01.517Z	Reported to Red Hat.
CNA	2025-02-25T00:00:00.000Z	Made public.

## Workarounds

**CNA:** Mitigation for this issue is either not available or the currently available options don't meet the Red Hat Product Security criteria comprising ease of use and deployment, applicability to widespread installation base or stability.

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

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