



# Bug 2257691 (CVE-2023-6816) - CVE-2023-6816 xorg-x11-server: Heap buffer overflow in DeviceFocusEvent and ProcXQueryPointer

**Keywords:** Security

**Reported:** 2024-01-10 14:02 UTC by Patrick Del Bello

**Status:** NEW

**Modified:** 2025-08-04 16:33 UTC ([History](#))

**Alias:** CVE-2023-6816

**CC List:** 1 user ([show](#))

**Product:** Security Response

**Fixed In Version:** xorg-server-21.1.11, xwayland-23.2.4

**Component:** vulnerability

**Clone Of:**

**Version:** unspecified

**Environment:**

**Hardware:** All

**Last Closed:**

**OS:** Linux

**Embargoed:**

**Priority:** high

**Severity:** high

**Target Milestone:** ---

**Assignee:** Product Security

**QA Contact:**

**Docs Contact:**

**URL:**

**Whiteboard:**

**Depends On:** [2258926](#) [2258927](#)

**Blocks:** [2256538](#)

**TreeView+** [depends on](#) / [blocked](#)

<b>Attachments</b>	<a href="#">(Terms of Use)</a>
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### Links

System	ID	Private	Priority	Status	Summary	Last Updated
Red Hat Product Errata	<a href="#">RHSA-2024:0320</a>	0	None	None	None	2024-01-22 13:43:33 UTC
Red Hat Product Errata	<a href="#">RHSA-2024:0557</a>	0	None	None	None	2024-01-30 10:56:25 UTC
Red Hat Product Errata	<a href="#">RHSA-2024:0558</a>	0	None	None	None	2024-01-30 11:00:00 UTC

Red Hat Product Errata	<a href="#">RHSA-2024:0597</a>	0	None	None	None	2024-01-30 14:10:02 UTC
Red Hat Product Errata	<a href="#">RHSA-2024:0607</a>	0	None	None	None	2024-01-30 14:53:45 UTC
Red Hat Product Errata	<a href="#">RHSA-2024:0614</a>	0	None	None	None	2024-01-30 15:21:27 UTC
Red Hat Product Errata	<a href="#">RHSA-2024:0617</a>	0	None	None	None	2024-01-31 07:07:38 UTC
Red Hat Product Errata	<a href="#">RHSA-2024:0621</a>	0	None	None	None	2024-01-30 16:07:42 UTC
Red Hat Product Errata	<a href="#">RHSA-2024:0626</a>	0	None	None	None	2024-01-31 08:31:21 UTC
Red Hat Product Errata	<a href="#">RHSA-2024:0629</a>	0	None	None	None	2024-01-31 08:43:44 UTC
Red Hat Product Errata	<a href="#">RHSA-2024:2169</a>	0	None	None	None	2024-04-30 09:43:34 UTC
Red Hat Product Errata	<a href="#">RHSA-2024:2170</a>	0	None	None	None	2024-04-30 09:43:22 UTC
Red Hat Product Errata	<a href="#">RHSA-2024:2996</a>	0	None	None	None	2024-05-22 09:32:59 UTC
Red Hat Product Errata	<a href="#">RHSA-2025:12751</a>	0	None	None	None	2025-08-04 16:33:40 UTC

Patrick Del Bello 2024-01-10 14:02:10 UTC

[Description](#)

Both DeviceFocusEvent and the XIQueryPointer reply contain a bit for each logical button currently down. Buttons can be arbitrarily mapped to any value up to 255 but the X.Org Server was only allocating space for the device's number of buttons, leading to a heap overflow if a bigger value

was used.

Sandipan Roy 2024-01-18 04:15:49 UTC

[Comment 3](#)

Created tigervnc tracking bugs for this issue:

Affects: fedora-all [ [bug-2258927](#) ]

Created xorg-x11-server tracking bugs for this issue:

Affects: fedora-all [ [bug-2258926](#) ]

errata-xmlrpc 2024-01-22 13:43:32 UTC

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This issue has been addressed in the following products:

Red Hat Enterprise Linux 7

Via RHSA-2024:0320 <https://access.redhat.com/errata/RHSA-2024:0320>

errata-xmlrpc 2024-01-30 10:56:24 UTC

[Comment 5](#)

This issue has been addressed in the following products:

Red Hat Enterprise Linux 9

Via RHSA-2024:0557 <https://access.redhat.com/errata/RHSA-2024:0557>

errata-xmlrpc 2024-01-30 10:59:59 UTC

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This issue has been addressed in the following products:

Red Hat Enterprise Linux 8.4 Advanced Mission Critical Update Support

Red Hat Enterprise Linux 8.4 Update Services for SAP Solutions

Red Hat Enterprise Linux 8.4 Telecommunications Update Service

Via RHSA-2024:0558 <https://access.redhat.com/errata/RHSA-2024:0558>

errata-xmlrpc 2024-01-30 14:10:01 UTC

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This issue has been addressed in the following products:

Red Hat Enterprise Linux 8.8 Extended Update Support

Via RHSA-2024:0597 <https://access.redhat.com/errata/RHSA-2024:0597>

errata-xmlrpc 2024-01-30 14:53:45 UTC

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This issue has been addressed in the following products:

Red Hat Enterprise Linux 8

Via RHSA-2024:0607 <https://access.redhat.com/errata/RHSA-2024:0607>

errata-xmlrpc 2024-01-30 15:21:24 UTC

[Comment 9](#)

This issue has been addressed in the following products:

Red Hat Enterprise Linux 9.0 Extended Update Support

Via RHSA-2024:0614 <https://access.redhat.com/errata/RHSA-2024:0614>

errata-xmlrpc 2024-01-30 16:07:41 UTC

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This issue has been addressed in the following products:

Red Hat Enterprise Linux 8.6 Extended Update Support

Via RHSA-2024:0621 <https://access.redhat.com/errata/RHSA-2024:0621>

errata-xmlrpc 2024-01-31 07:07:37 UTC

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This issue has been addressed in the following products:

Red Hat Enterprise Linux 8.2 Advanced Update Support  
Red Hat Enterprise Linux 8.2 Update Services for SAP  
Solutions  
Red Hat Enterprise Linux 8.2 Telecommunications Update  
Service

Via RHSA-2024:0617 <https://access.redhat.com/errata/RHSA-2024:0617>

errata-xmlrpc 2024-01-31 08:31:20 UTC

[Comment 12](#)

This issue has been addressed in the following products:

Red Hat Enterprise Linux 9.2 Extended Update Support

Via RHSA-2024:0626 <https://access.redhat.com/errata/RHSA-2024:0626>

errata-xmlrpc 2024-01-31 08:43:43 UTC

[Comment 13](#)

This issue has been addressed in the following products:

Red Hat Enterprise Linux 7

Via RHSA-2024:0629 <https://access.redhat.com/errata/RHSA-2024:0629>

errata-xmlrpc 2024-04-30 09:43:21 UTC

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This issue has been addressed in the following products:

Red Hat Enterprise Linux 9

Via RHSA-2024:2170 <https://access.redhat.com/errata/RHSA-2024:2170>

errata-xmlrpc 2024-04-30 09:43:33 UTC

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This issue has been addressed in the following products:

Red Hat Enterprise Linux 9

Via RHSA-2024:2169 <https://access.redhat.com/errata/RHSA-2024:2169>

errata-xmlrpc 2024-05-22 09:32:58 UTC

[Comment 17](#)

This issue has been addressed in the following products:

Red Hat Enterprise Linux 8

Via RHSA-2024:2996 <https://access.redhat.com/errata/RHSA-2024:2996>

errata-xmlrpc 2025-08-04 16:33:39 UTC

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This issue has been addressed in the following products:

Red Hat Enterprise Linux 6 Extended Lifecycle Support -  
EXTENSION

Via RHSA-2025:12751 <https://access.redhat.com/errata/RHSA-2025:12751>

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