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Owner:[taku...@chromium.org](#)**CC:**[rzanoni@google.com](#)[jrw@chromium.org](#)[steimel@chromium.org](#)[muyaoxu@google.com](#)[mfoltz@chromium.org](#)[ahmedmoussa@google.com](#)[taku...@chromium.org](#)**Status:**Verified (*Closed*)**Components:**[Internals>Cast>UI](#)**Modified:**

Jul 29, 2022

Backlog-Rank:

Editors:

EstimatedDays:

NextAction:

OS:[Linux](#), [Windows](#), [Chrome](#), [Mac](#), [Fuchsia](#)**Pri:**

1

Type:[Bug-Security](#)[Hotlist-Merge-Review](#)[Security_Severity-High](#)[allpublic](#)[CVE_description-submitted](#)[M-98](#)[Target-98](#)[FoundIn-98](#)[Security_Impact-Extended](#)[merge-merged-4664](#)[LTS-Merge-Merged-96](#)[merge-merged-4896](#)[merge-merged-100](#)[Release-0-M100](#)[CVE-2022-1131](#)

Issue 1297404: Security: heap-use-after-free in global_media_controls::MediaItemManagerImpl::HidItem

Reported by [abalq...@microsoft.com](#) on Mon, Feb 14, 2022, 9:25 PM EST

 [Code](#)

VULNERABILITY DETAILS

Browser process crashes when hiding a specific type of media control.

VERSION

Chrome Version: 100.0.4890.0 (Developer Build) (64-bit)

Operating System: Windows 11 (dual monitor setup)

REPRODUCTION CASE

This seems to only trigger with dual monitor setup. So when the media control appears without dual monitors it does not show an extra option in the dialog that selects the screen. Somehow that button is important.

1. Download attached extension files into a folder like in 'C:/ext/' (run manually install)
2. Run:
./chrome.exe --user-data-dir="C:/profiles/poc" --disable-extensions-except="C:/ext/" --load-extension="C:/ext/" --no-first-run --enable-logging=stderr about:blank
3. Wait a few minutes and crash should occur

FOR CRASHES, PLEASE INCLUDE THE FOLLOWING ADDITIONAL INFORMATION

Type of crash: browser

Crash State: See attached ASAN log `mediasan.txt`

CREDIT INFORMATION

Reporter credit: Abdulrahman Alqabandi, Microsoft Browser Vulnerability Research

mediasan.txt

16.9 KB [View](#) [Download](#)

service_worker.js

10.1 KB [View](#) [Download](#)

manifest.json

388 bytes [View](#) [Download](#)

[Comment 1](#) by [abalq...@microsoft.com](#) on Mon, Feb 14, 2022, 9:38 PM EST

For step 1 of repro: "run manually install" supposed to be "or manually install"

[Comment 2](#) by [adetaylor@google.com](#) on Mon, Feb 14, 2022, 9:45 PM EST Project Member

Thanks for the report! I don't have a multi-monitor Windows setup so we'll take a look into this tomorrow.

[Comment 3](#) by [abalq...@microsoft.com](#) on Mon, Feb 14, 2022, 10:55 PM EST

I ran it again without dual monitor for good measure and it reproduced. Sorry its been a long day chasing this bug.

Comment 4 by adetaylor@google.com on Tue, Feb 15, 2022, 2:02 PM EST Project Member

Labels: FoundIn-98 Security_Severity-High Pri-1

Nice! Thanks for doing so much work on the repro! I was able to reproduce this on Windows first time using win32-release_x64_asan-win32-release_x64-950353.

As a browser process crash, this would be Critical severity, but mitigated down to High by the need for an extension.

Comment 5 by adetaylor@google.com on Tue, Feb 15, 2022, 2:04 PM EST Project Member

Owner: steimel@chromium.org

Cc: jrw@chromium.org

Labels: OS-Chrome OS-Fuchsia OS-Linux OS-Mac OS-Windows

Components: Internals>Cast>UI

steimel@, please could you take a look?

(Tagging with all desktop platforms - please adjust as necessary)

Comment 6 by [sheriffbot](#) on Tue, Feb 15, 2022, 2:05 PM EST Project Member

Labels: Security_Impact-Extended

Comment 7 by [sheriffbot](#) on Tue, Feb 15, 2022, 2:27 PM EST Project Member

Status: Assigned (was: Unconfirmed)

Comment 8 by [sheriffbot](#) on Wed, Feb 16, 2022, 12:47 PM EST Project Member

Labels: M-98 Target-98

Setting milestone and target because of high severity.

For more details visit <https://www.chromium.org/issue-tracking/autotriage> - Your friendly Sheriffbot

Comment 9 by steimel@chromium.org on Thu, Feb 17, 2022, 11:00 AM EST Project Member

Owner: taku...@chromium.org

Cc: steimel@chromium.org

Assigning to takumif@ to triage since it looks to be related to presentation requests

Comment 10 by [sheriffbot](#) on Tue, Mar 1, 2022, 12:21 PM EST Project Member

takumif: Uh oh! This issue still open and hasn't been updated in the last 14 days. This is a serious vulnerability, and we want to ensure that there's progress. Could you please leave an update with the current status and any potential blockers?

If you're not the right owner for this issue, could you please remove yourself as soon as possible or help us find the right one?

If the issue is fixed or you can't reproduce it, please close the bug. If you've started working on a fix, please set the status to Started.

Thanks for your time! To disable nags, add the Disable-Nags label.

For more details visit <https://www.chromium.org/issue-tracking/autotriage> - Your friendly Sheriffbot

Comment 11 by [taku...@chromium.org](#) on Thu, Mar 3, 2022, 1:08 PM EST Project Member

Status: Started (was: Assigned)

I haven't been able to repro on Linux and don't have a Windows workstation that has access to two monitors.
I however have a speculative fix up at <https://chromium-review.googlesource.com/c/chromium/src/+3499791>

Comment 12 by [Git Watcher](#) on Thu, Mar 3, 2022, 1:54 PM EST Project Member

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src/+4b4ba391d5ab114f2a4f06fabb307be86bf65eeb>

commit [4b4ba391d5ab114f2a4f06fabb307be86bf65eeb](#)

Author: Takumi Fujimoto <takumif@chromium.org>

Date: Thu Mar 03 18:52:55 2022

Hide media and cast dialogs before showing another

Ensure that HideDialog() gets called before creating a new dialog instance, so that cleanup gets done.

~~Bug: 1297404~~

Change-Id: I488938c381c7327fc1999a9ef0a3872fd6053907

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3499791>

Reviewed-by: Tommy Steinel <steinel@chromium.org>

Reviewed-by: Muyao Xu <muyaoxu@google.com>

Commit-Queue: Takumi Fujimoto <takumif@chromium.org>

Cr-Commit-Position: refs/heads/main@{#977216}

[modify]

https://crrev.com/4b4ba391d5ab114f2a4f06fabb307be86bf65eeb/chrome/browser/ui/views/media_router/cast_dialog_view.cc

[modify]

https://crrev.com/4b4ba391d5ab114f2a4f06fabb307be86bf65eeb/chrome/browser/ui/views/global_media_controls/media_dialog_view.cc

Comment 13 by [abalq...@microsoft.com](#) on Mon, Mar 7, 2022, 2:35 AM EST

It turns out you do not need dual monitors to repro on windows.

Comment 14 by [taku...@chromium.org](#) on Mon, Mar 7, 2022, 11:59 AM EST Project Member

The speculative fix in [comment 12](#) landed in 101.0.4923.0. Would you mind checking if it still repros on that version or later?

Comment 15 by [abalq...@microsoft.com](#) on Fri, Mar 11, 2022, 7:27 AM EST

Not able to repro on 101.0.4938.0 ASAN, did multiple runs and verified it still works on older build. So LGTM, nice patch!

Comment 16 by [taku...@google.com](#) on Fri, Mar 11, 2022, 9:48 AM EST Project Member

Status: Verified (was: Started)

Thank you for verifying!

Comment 17 by [sheriffbot](#) on Fri, Mar 11, 2022, 1:42 PM EST Project Member

Labels: -Restrict-View-SecurityTeam Restrict-View-SecurityNotify

Comment 18 by [sheriffbot](#) on Fri, Mar 11, 2022, 2:02 PM EST Project Member

Labels: Merge-Request-100 Merge-Request-98 Merge-Request-99

Requesting merge to extended stable M98 because latest trunk commit (977216) appears to be after extended stable branch point (950365).

Requesting merge to stable M99 because latest trunk commit (977216) appears to be after stable branch point (961656).

Requesting merge to beta M100 because latest trunk commit (977216) appears to be after beta branch point (972766).

For more details visit <https://www.chromium.org/issue-tracking/autotriage> - Your friendly Sheriffbot

Comment 19 by [sheriffbot](#) on Fri, Mar 11, 2022, 2:08 PM EST Project Member

Labels: -Merge-Request-100 Hotlist-Merge-Review Merge-Review-100

Merge review required: M100 is already shipping to beta.

Please answer the following questions so that we can safely process your merge request:

1. Why does your merge fit within the merge criteria for these milestones?
 - Chrome Browser: <https://chromiumdash.appspot.com/branches>
 - Chrome OS: <https://goto.google.com/cros-release-branch-merge-guidelines>
2. What changes specifically would you like to merge? Please link to Gerrit.
3. Have the changes been released and tested on canary?
4. Is this a new feature? If yes, is it behind a Finch flag and are experiments active in any release channels?
5. [Chrome OS only]: Was the change reviewed and approved by the Eng Prod Representative?
<https://goto.google.com/cros-engprodcomponents>
6. If this merge addresses a major issue in the stable channel, does it require manual verification by the test team? If so, please describe required testing.

Please contact the milestone owner if you have questions.

Owners: govind (Android), harrysouders (iOS), dgagnon (ChromeOS), srinivassista (Desktop)

For more details visit <https://www.chromium.org/issue-tracking/autotriage> - Your friendly Sheriffbot

Comment 20 by [sheriffbot](#) on Fri, Mar 11, 2022, 2:08 PM EST Project Member

Labels: -Merge-Request-99 Merge-Review-99

Merge review required: M99 is already shipping to stable.

Please answer the following questions so that we can safely process your merge request:

1. Why does your merge fit within the merge criteria for these milestones?
 - Chrome Browser: <https://chromiumdash.appspot.com/branches>
 - Chrome OS: <https://goto.google.com/cros-release-branch-merge-guidelines>
2. What changes specifically would you like to merge? Please link to Gerrit.
3. Have the changes been released and tested on canary?
4. Is this a new feature? If yes, is it behind a Finch flag and are experiments active in any release channels?
5. [Chrome OS only]: Was the change reviewed and approved by the Eng Prod Representative?
<https://goto.google.com/cros-engprodcomponents>
6. If this merge addresses a major issue in the stable channel, does it require manual verification by the test team? If so, please describe required testing.

Please contact the milestone owner if you have questions.

Please contact the milestone owner if you have questions.

Owners: benmason (Android), harrysouders (iOS), ceb (ChromeOS), pbommana (Desktop)

For more details visit <https://www.chromium.org/issue-tracking/autotriage> - Your friendly Sheriffbot

Comment 21 by [sheriffbot](#) on Fri, Mar 11, 2022, 2:08 PM EST Project Member

Labels: -Merge-Request-98 Merge-Review-98

Merge review required: M98 is already shipping to stable.

Please answer the following questions so that we can safely process your merge request:

1. Why does your merge fit within the merge criteria for these milestones?
- Chrome Browser: <https://chromiumdash.appspot.com/branches>
- Chrome OS: <https://goto.google.com/cros-release-branch-merge-guidelines>
2. What changes specifically would you like to merge? Please link to Gerrit.
3. Have the changes been released and tested on canary?
4. Is this a new feature? If yes, is it behind a Finch flag and are experiments active in any release channels?
5. [Chrome OS only]: Was the change reviewed and approved by the Eng Prod Representative?
<https://goto.google.com/cros-engprodcomponents>
6. If this merge addresses a major issue in the stable channel, does it require manual verification by the test team? If so, please describe required testing.

Please contact the milestone owner if you have questions.

Owners: govind (Android), harrysouders (iOS), matthewjoseph (ChromeOS), srinivassista (Desktop)

For more details visit <https://www.chromium.org/issue-tracking/autotriage> - Your friendly Sheriffbot

Comment 22 by [srinivassista@google.com](#) on Mon, Mar 14, 2022, 1:03 PM EDT Project Member

pls answer [comment #21](#) for merge review.

Comment 23 by [taku...@chromium.org](#) on Mon, Mar 14, 2022, 1:27 PM EDT Project Member

1. Why does your merge fit within the merge criteria for these milestones?
High-severity security issue
2. What changes specifically would you like to merge? Please link to Gerrit.
<https://chromium-review.googlesource.com/c/chromium/src/+3499791>
3. Have the changes been released and tested on canary?
Yes
4. Is this a new feature? If yes, is it behind a Finch flag and are experiments active in any release channels?
No
5. [Chrome OS only]: Was the change reviewed and approved by the Eng Prod Representative?
<https://goto.google.com/cros-engprodcomponents>
N/A
6. If this merge addresses a major issue in the stable channel, does it require manual verification by the test team? If so, please describe required testing.
No

Comment 24 by [srinivassista@google.com](#) on Tue, Mar 15, 2022, 1:16 PM EDT Project Member

Labels: -Merge-Review-100 Merge-Approved-100

Merge approved for M100 branch: please refer to [go/chrome-branches](#) for info

Please complete your merge by 2pm PST today so it can be included in this weeks beta release.

Comment 25 by [srinivassista@google.com](#) on Tue, Mar 15, 2022, 3:39 PM EDT Project Member

CP CL here - <https://chromium-review.googlesource.com/c/chromium/src/+3526619>

Please help land it

Comment 26 by [Git Watcher](#) on Tue, Mar 15, 2022, 5:06 PM EDT Project Member

Labels: -merge-approved-100 merge-merged-4896 merge-merged-100

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src/+f3c85fc8e436069633e0082cb3de060a2ff8db46>

commit [f3c85fc8e436069633e0082cb3de060a2ff8db46](#)

Author: Takumi Fujimoto <takumif@chromium.org>

Date: Tue Mar 15 21:05:56 2022

Hide media and cast dialogs before showing another

Ensure that HideDialog() gets called before creating a new dialog instance, so that cleanup gets done.

(cherry picked from commit [4b4ba391d5ab114f2a4f06fabb307be86bf65eeb](#))

Bug: [1297404](#)

Change-Id: [I488938c381c7327fc1999a9ef0a3872fd6053907](#)

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3499791>

Reviewed-by: Tommy Steimel <steimel@chromium.org>

Reviewed-by: Muyao Xu <muyaoxu@google.com>

Commit-Queue: Takumi Fujimoto <takumif@chromium.org>

Cr-Original-Commit-Position: refs/heads/main@{#977216}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3526619>

Bot-Commit: Rubber Stamper <rubber-stamper@appspot.gserviceaccount.com>

Reviewed-by: Takumi Fujimoto <takumif@chromium.org>

Cr-Commit-Position: refs/branch-heads/4896@{#572}

Cr-Branched-From: [1f63ff4bc27570761b35ffbc7f938f6586f7bee8](#)-refs/heads/main@{#972766}

[modify]

https://crrev.com/f3c85fc8e436069633e0082cb3de060a2ff8db46/chrome/browser/ui/views/media_router/cast_dialog_view.cc

[modify]

https://crrev.com/f3c85fc8e436069633e0082cb3de060a2ff8db46/chrome/browser/ui/views/global_media_controls/media_dialog_view.cc

Comment 27 by [sheriffbot](#) on Tue, Mar 15, 2022, 5:10 PM EDT Project Member

Labels: LTS-Merge-Candidate

LTS Milestone M96

This issue has been flagged as a merge candidate for Chrome OS LTS channel. If selected, our merge team will handle

This issue has been tagged as a merge candidate for Chrome OS LTS channel. If selected, our merge team will handle any additional merges. To help us determine if this issue requires a merge to LTS, please answer this short questionnaire:

1. Was this issue a regression for the milestone it was found in?
2. Is this issue related to a change or feature merged after the latest LTS Milestone?

For more details visit <https://www.chromium.org/issue-tracking/autotriage> - Your friendly Sheriffbot

Comment 28 by rzanoni@google.com on Wed, Mar 16, 2022, 5:09 AM EDT Project Member

Cc: rzanoni@google.com

Labels: LTS-Evaluating-96

Comment 29 by rzanoni@google.com on Thu, Mar 17, 2022, 8:55 AM EDT Project Member

Labels: -LTS-Evaluating-96 LTS-Merge-Request-96

Comment 30 by [sheriffbot](#) on Thu, Mar 17, 2022, 8:59 AM EDT Project Member

Labels: -LTS-Merge-Request-96 LTS-Merge-Review-96

This issue requires additional review before it can be merged to the LTS channel. Please answer the following questions to help us evaluate this merge:

1. Number of CLs needed for this fix and links to them.
2. Level of complexity (High, Medium, Low - Explain)
3. Has this been merged to a stable release? beta release?
4. Overall Recommendation (Yes, No)

For more details visit <https://www.chromium.org/issue-tracking/autotriage> - Your friendly Sheriffbot

Comment 31 by rzanoni@google.com on Thu, Mar 17, 2022, 9:03 AM EDT Project Member

1. Just <https://crrev.com/c/3528415>
2. Low, mostly conflicts missing methods in M96, simple to solve
3. 100
4. Yes

Comment 32 by gmpritchard@google.com on Thu, Mar 17, 2022, 10:42 AM EDT Project Member

Labels: LTS-Merge-Delayed-96

Delaying merge approval until it gets pushed on beta.

Comment 33 by amyressler@chromium.org on Thu, Mar 17, 2022, 1:05 PM EDT Project Member

Labels: -Merge-Review-98 -Merge-Review-99

no further planned releases of M99 stable or M98 extended stable

Comment 34 by gmpritchard@google.com on Fri, Mar 25, 2022, 9:43 AM EDT Project Member

Labels: -LTS-Merge-Candidate -LTS-Merge-Delayed-96 LTS-Merge-Approved-96

Comment 35 by [Git Watcher](#) on Sun, Mar 27, 2022, 9:11 PM EDT Project Member

Labels: merge-merged-4664

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src/+f2fdce105c82fb6b860309d0f0d49d65b3a24979>

commit [f2fdce105c82fb6b860309d0f0d49d65b3a24979](#)

Author: Takumi Fujimoto <takumif@chromium.org>

Date: Mon Mar 28 01:10:10 2022

[M96-LTS] Hide media and cast dialogs before showing another

M96 merge issues:

media_dialog_view.cc:

- conflicting declarations of MediaDialogView constructor

cast_dialog_view.cc:

ShowAccessCodeCastDialog() and MaybeShowAccessCodeCastButton()

not present in M96

Ensure that HideDialog() gets called before creating a new dialog instance, so that cleanup gets done.

(cherry picked from commit [4b4ba391d5ab114f2a4f06fabb307be86bf65eeb](#))

~~Bug-1297404~~

Change-Id: I488938c381c7327fc1999a9ef0a3872fd6053907

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3499791>

Commit-Queue: Takumi Fujimoto <takumif@chromium.org>

Cr-Original-Commit-Position: refs/heads/main@{#977216}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3528415>

Reviewed-by: Oleh Lamzin <lamzin@google.com>

Owners-Override: Oleh Lamzin <lamzin@google.com>

Commit-Queue: Roger Felipe Zandoni da Silva <rzanoni@google.com>

Cr-Commit-Position: refs/branch-heads/4664@{#1553}

Cr-Branched-From: [24dc4ee75e01a29d390d43c9c264372a169273a7](#)-refs/heads/main@{#929512}

[modify]

https://crrev.com/f2fdce105c82fb6b860309d0f0d49d65b3a24979/chrome/browser/ui/views/media_router/cast_dialog_view.cc

[modify]

https://crrev.com/f2fdce105c82fb6b860309d0f0d49d65b3a24979/chrome/browser/ui/views/global_media_controls/media_dialog_view.cc

Comment 36 by rzanoni@google.com on Mon, Mar 28, 2022, 5:32 AM EDT Project Member

Labels: -LTS-Merge-Approved-96 -LTS-Merge-Review-96 LTS-Merge-Merged-96

Comment 37 by amyressler@chromium.org on Mon, Mar 28, 2022, 5:55 PM EDT Project Member

Labels: Release-0-M100

Comment 38 by amyressler@google.com on Tue, Mar 29, 2022, 1:13 PM EDT Project Member

Labels: CVE-2022-1131 CVE_description-missing

[Comment 39](#) by [sheriffbot](#) on Fri, Jun 17, 2022, 1:31 PM EDT Project Member

Labels: -Restrict-View-SecurityNotify allpublic

This bug has been closed for more than 14 weeks. Removing security view restrictions.

For more details visit <https://www.chromium.org/issue-tracking/autotriage> - Your friendly Sheriffbot

[Comment 40](#) by [amyressler@google.com](#) on Fri, Jul 22, 2022, 7:36 PM EDT Project Member

Labels: CVE_description-submitted -CVE_description-missing

[Comment 41](#) by [amyressler@chromium.org](#) on Fri, Jul 29, 2022, 5:26 PM EDT Project Member

Labels: -CVE_description-missing --CVE_description-missing

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