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Owner:

[liber...@chromium.org](#)

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[boliu@chromium.org](#)

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[steimel@chromium.org](#)

🕒 [haraken@chromium.org](#)

[dcheng@chromium.org](#)

[rsch...@chromium.org](#)

Status:

Fixed (*Closed*)

Components:

[Blink>Layout](#)

[Internals>Media](#)

Modified:

Jul 21, 2022

Backlog-Rank:

Editors:

EstimatedDays:

NextAction:

OS:

[Android](#)

Pri:

0

Type:

[Bug-Security](#)

[Hotlist-Merge-Review](#)

[Security_Severity-Critical](#)

[Hotlist-Merge-Approved](#)

[allpublic](#)

[CVE_description-submitted](#)

[M-98](#)

[Target-98](#)

[FoundIn-96](#)

[Security_Impact-Extended](#)

[merge-merged-4758](#)

[merge-merged-98](#)

[merge-merged-4844](#)

[merge-merged-99](#)

[merge-merged-4896](#)

[merge-merged-100](#)

[Release-1-M99](#)

[CVE-2022-0971](#)

Issue 1299422: Security: heap-use-after-free in content::DisplayCutoutHostImpl::SendSafeAreaToFrame

Reported by glazunov@google.com on Mon, Feb 21, 2022, 8:56 AM EST

Project Member

 Code

SUMMARY

A use-after-free issue exists in Chrome 100 and earlier versions. Processing maliciously crafted web content may lead to arbitrary code execution in the browser process.

VULNERABILITY DETAILS

...

```
void DisplayCutoutHostImpl::DidFinishNavigation(
    NavigationHandle* navigation_handle) {
    // If the navigation is not in the main frame or if we are a same document
    // navigation then we should stop now.
    if (!navigation_handle->IsInPrimaryMainFrame() ||
        navigation_handle->IsSameDocument()) {
        return;
    }

    // If we finish a main frame navigation and the |WebDisplayMode| is
    // fullscreen then we should make the main frame the current
    // |RenderFrameHost|.
    blink::mojom::DisplayMode mode = web_contents_impl_->GetDisplayMode();
    if (mode == blink::mojom::DisplayMode::kFullscreen)
        SetCurrentRenderFrameHost(web_contents_impl_->GetMainFrame());
}
```

```
void DisplayCutoutHostImpl::RenderFrameDeleted(RenderFrameHost* rfh) {
    values_.erase(rfh);

    // If we were the current |RenderFrameHost| then we should clear that.
    if (current_rfh_ == rfh)
        SetCurrentRenderFrameHost(nullptr);
}
```

```
void DisplayCutoutHostImpl::SetCurrentRenderFrameHost(RenderFrameHost* rfh) {
    if (current_rfh_ == rfh)
        return;

    // If we had a previous frame then we should clear the insets on that frame.
    if (current_rfh_)
        SendSafeAreaToFrame(current_rfh_, gfx::Insets());

    // Update the |current_rfh_| with the new frame.
    current_rfh_ = rfh;
```

```
[...]
}
```

...

This is yet another issue caused by the error-prone frame state tracking design that has been discussed in <https://crbug.com/1260007>.

`DisplayCutoutHostImpl` subscribes to `RenderFrameDeleted` notifications so that it can clear the raw pointer field `current_rfh_` when the frame host gets destroyed. Unfortunately, the `DidFinishNavigation` method, which sets the pointer, may be called after the frame host has been put into the "deleted" (meaning `RenderFrameDeleted` has been called) state, for example, if the associated renderer process crashes before the navigation can complete. Since `RenderFrameDeleted` can't be called twice on the same object, `DisplayCutoutHostImpl` won't be notified, and `current_rfh_` will be left dangling.

`SetCurrentRenderFrameHost` should be modified to check whether the new frame host is alive to fix the issue.

VERSION

Note that `DisplayCutoutHostImpl` is only enabled for Android, so other OSes are not affected.

Google Chrome 98.0.4758.101 (Official Build) (64-bit)
100.0.4893.0 (Developer Build) (64-bit)

REPRODUCTION CASE

1. Apply the attached patch to enable `DisplayCutoutHostImpl` for Linux.
2. Run the custom web server script.
3. Start Chrome: `/path/to/chrome --js-flags="--allow-natives-syntax" <http://localhost:8000/repro.html>`. The repro case calls a V8 native function to crash the renderer. Of course, any other way would work as well.

CREDIT INFORMATION

Sergei Glazunov of Google Project Zero

This bug is subject to a 90-day disclosure deadline. If a fix for this issue is made available to users before the end of the 90-day deadline, this bug report will become public 30 days after the fix was made available. Otherwise, this bug report will become public at the deadline. The scheduled deadline is 2022-05-22.

asan.log

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

patch.diff

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

repro.html

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

server.py

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

[Comment 2](#) by [danakj@chromium.org](#) on Tue, Feb 22, 2022, 5:59 PM EST Project Member

Status: Assigned (was: Unconfirmed)

Owner: dalec...@chromium.org

Cc: creis@chromium.org mcnee@chromium.org

Labels: Security_Severity-Critical OS-Android OS-Chrome OS-Fuchsia OS-Linux OS-Mac OS-Windows OS-iOS OS-Lacros Pri-1

Components: Internals>Media

dalecurtis@ could you please triage?

It seems the authors of this class no longer work here.

And the OWNERS file here, and in a couple other places, points to a 404.

[https://source.chromium.org/search?](https://source.chromium.org/search?ss=chromium%2Fchromium%2Fsrc&q=chrome%2Fandroid%2Fjava%2Fsrc%2Forg%2Fchromium%2Fchrome%2Fbrowser%2Fdisplay_cutout%2FOWNERS)

[ss=chromium%2Fchromium%2Fsrc&q=chrome%2Fandroid%2Fjava%2Fsrc%2Forg%2Fchromium%2Fchrome%2Fbrowser%2Fdisplay_cutout%2FOWNERS](https://source.chromium.org/search?ss=chromium%2Fchromium%2Fsrc&q=chrome%2Fandroid%2Fjava%2Fsrc%2Forg%2Fchromium%2Fchrome%2Fbrowser%2Fdisplay_cutout%2FOWNERS)

In general: outliving a document and tracking the RenderFrameHost* is very problematic. Using a raw pointer is extra bad:

https://docs.google.com/document/d/1oopBPfX88thk6Ax79h_UbaoNQ416t7iNjrF38veuSg/edit?resourcekey=0-A4afoylSzgiyd667or1Xmw

If a class wants to outlive a document it should track the FrameTreeNode (or WebContents) rather than the RenderFrameHost.

[Comment 3](#) by [danakj@chromium.org](#) on Tue, Feb 22, 2022, 6:00 PM EST Project Member

Labels: FoundIn-96

All the code here is > 1 year old so would be in M96 .

[Comment 4](#) by [sheriffbot](#) on Tue, Feb 22, 2022, 6:05 PM EST Project Member

Labels: Security_Impact-Extended

[Comment 5](#) by [dalec...@chromium.org](#) on Tue, Feb 22, 2022, 6:12 PM EST Project Member

Owner: liber...@chromium.org

Cc: steimel@chromium.org

=>Frank to triage since this was previously owned by Chrome Media UX (beccahughes@, mlamouri@)

[Comment 6](#) by [liberato@google.com](#) on Tue, Feb 22, 2022, 6:31 PM EST Project Member

Status: Started (was: Assigned)

this looks like more fun than perf. putting together a CL now.

[Comment 7](#) by [dcheng@chromium.org](#) on Tue, Feb 22, 2022, 8:52 PM EST Project Member

Status: Assigned (was: Started)

Owner: dalec...@chromium.org

Components: Blink>Layout

I've filed [issue 1300030](#) since this component does not appear to have any active OWNERS.

We did cover this implementation class in a previous audit however we made the incorrect assumption that

we did cover this implementation class in a previous audit; however, we made the incorrect assumption that DidFinishNavigation() is not called after RenderFrameDeleted().

In general, this is a super error prone way of handling lifetimes: we don't provide any easy way to automatically scope lifetimes, so code ends up having to listen for these notifications.

+dalecurtis, can you help find an OWNER for this? I guess this is ostensibly a 'media' feature, though I don't really know who works in this area anymore: mlamouri and beccahughes were the only two OWNERS, and both have moved off Chrome. The short-term fix (to simply add a liveness check) should be easy to implement.

Critical, because this does not require a compromised renderer to trigger the memory corruption. Blink>Layout because that's what the only DIR_METADATA I could find claims.

Comment 8 by dcheng@chromium.org on Tue, Feb 22, 2022, 8:53 PM EST Project Member

Status: Started (was: Assigned)

Owner: liber...@chromium.org

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

Oh, I should have refreshed. Fixing OWNERS assignment.

(I am removing the OS labels except for Android though; this is only reachable on Android)

Comment 9 by liberato@google.com on Wed, Feb 23, 2022, 12:57 AM EST Project Member

<https://chromium-review.googlesource.com/c/chromium/src/+3482540>

Comment 10 by liberato@google.com on Wed, Feb 23, 2022, 12:58 AM EST Project Member

also, thank you for the detailed repro steps.

Comment 11 by [sheriffbot](#) on Thu, Feb 24, 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 12 by [sheriffbot](#) on Thu, Feb 24, 2022, 1:13 PM EST Project Member

Labels: -Pri-1 Pri-0

Setting Pri-0 to match security severity Critical. If this is incorrect, please reset the priority. Sheriffbot won't make this change again.

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

Comment 13 by creis@chromium.org on Tue, Mar 1, 2022, 11:39 AM EST Project Member

Cc: boliu@chromium.org

liberato@ / danakj@ / dcheng@ / boliu@: What's the status of this? Can we unblock the CL and get it landed, given the critical severity rating? Thanks!

Comment 14 by liberato@google.com on Tue, Mar 1, 2022, 12:01 PM EST Project Member

the CL [1] is coming along.

¹<https://chromium-review.googlesource.com/c/chromium/src/+3482540>

[1] <https://chromium-review.googlesource.com/c/chromium/src/+3482540>

Comment 15 by [Git Watcher](#) on Tue, Mar 1, 2022, 3:03 PM EST Project Member

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src/+4d71d571302a75192f26d9e1122150ae5c600abb>

commit [4d71d571302a75192f26d9e1122150ae5c600abb](#)

Author: liberato@chromium.org <liberato@chromium.org>

Date: Tue Mar 01 20:02:12 2022

Don't use a deleted RenderFrameHost.

Since we do not check for frame liveness, a RenderFrameHost might be deleted (in the use-after-free sense) without another call to RenderFrameDeleted. So, WeakPtr it to avoid these cases.

[Bug-1299422](#)

Change-Id: [Ie4fe85f88ef80f4e4c3d0452397c0e5050ed881c](#)

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3482540>

Reviewed-by: Bo Liu <boliu@chromium.org>

Commit-Queue: Frank Liberato <liberato@chromium.org>

Auto-Submit: Frank Liberato <liberato@chromium.org>

Cr-Commit-Position: refs/heads/main@{#976357}

[modify]

https://crrev.com/4d71d571302a75192f26d9e1122150ae5c600abb/content/browser/display_cutout/display_cutout_host_impl.h

[modify]

https://crrev.com/4d71d571302a75192f26d9e1122150ae5c600abb/content/browser/display_cutout/display_cutout_host_impl.cc

Comment 16 by liberato@google.com on Tue, Mar 1, 2022, 7:34 PM EST Project Member

Status: Fixed (was: Started)

Comment 17 by [sheriffbot](#) on Wed, Mar 2, 2022, 1:41 PM EST Project Member

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

Comment 18 by [sheriffbot](#) on Wed, Mar 2, 2022, 2:01 PM EST Project Member

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

Requesting merge to extended stable M98 because latest trunk commit (976357) appears to be after extended stable branch point (950365).

Requesting merge to stable M99 because latest trunk commit (976357) appears to be after stable branch point (961656).

Requesting merge to dev M100 because latest trunk commit (976357) appears to be after dev branch point (972766).

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

Comment 19 by [sheriffbot](#) on Wed, Mar 2, 2022, 3:04 PM EST Project Member

Labels: -Merge-Request-100 Merge-Approved-100 Hotlist-Merge-Approved

Merge approved: your change passed merge requirements and is auto-approved for M100. Please go ahead and merge the CL to branch 4896 (refs/branch-heads/4896) manually. Please contact milestone owner if you have questions.

Merge instructions:

https://chromium.googlesource.com/chromium/src.git/+refs/heads/main/docs/process/merge_request.md

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 Wed, Mar 2, 2022, 3:04 PM EST Project Member

Labels: -Merge-Request-99 Hotlist-Merge-Review 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.

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 Wed, Mar 2, 2022, 3:04 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 liberato@google.com on Wed, Mar 2, 2022, 3:53 PM EST Project Member

re c#19: cherry-pick to M100 is at <https://chromium-review.googlesource.com/c/chromium/src/+3498952>

[Comment 23](#) by [sheriffbot](#) on Mon, Mar 7, 2022, 12:22 PM EST Project Member

This issue has been approved for a merge. Please merge the fix to any appropriate branches as soon as possible!

If all merges have been completed, please remove any remaining Merge-Approved labels from this issue.

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 24](#) by amyressler@chromium.org on Mon, Mar 7, 2022, 12:58 PM EST Project Member

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

M99 merge approved, please merge to branch 4844 before noon PST, Thursday, 10 March so this fix can be included in the next stable security refresh

M98 merge approved, please merge to branch 4758 so this fix can be included in Extended stable support

[Comment 25](#) by liberato@google.com on Mon, Mar 7, 2022, 1:35 PM EST Project Member

M99: <https://chromium-review.googlesource.com/c/chromium/src/+3508293>

M98: <https://chromium-review.googlesource.com/c/chromium/src/+3508294>

[Comment 26](#) by [Git Watcher](#) on Mon, Mar 7, 2022, 3:14 PM EST Project Member

Labels: -merge-approved-98 merge-merged-4758 merge-merged-98

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src/+cebad8ef22dc7b07430fed392518726a62bd25d4>

commit [cebad8ef22dc7b07430fed392518726a62bd25d4](https://chromium.googlesource.com/chromium/src/+cebad8ef22dc7b07430fed392518726a62bd25d4)

Author: liberato@chromium.org <liberato@chromium.org>

Date: Mon Mar 07 20:13:16 2022

[M98] Don't use a deleted RenderFrameHost.

Since we do not check for frame liveness, a RenderFrameHost might be deleted (in the use-after-free sense) without another call to RenderFrameDeleted. So, WeakPtr it to avoid these cases.

(cherry picked from commit [4d71d571302a75192f26d9e1122150ae5c600abb](https://chromium.googlesource.com/chromium/src/+4d71d571302a75192f26d9e1122150ae5c600abb))

[Bug: 1299422](#)

Change-Id: [Ie4fe85f88ef80f4e4c3d0452397c0e5050ed881c](https://chromium-review.googlesource.com/c/chromium/src/+4d71d571302a75192f26d9e1122150ae5c600abb)

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3482540>

Reviewed-by: Bo Liu <boliu@chromium.org>

Commit-Queue: Frank Liberato <liberato@chromium.org>

Auto-Submit: Frank Liberato <liberato@chromium.org>

Cr-Original-Commit-Position: refs/heads/main@{#976357}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3508294>

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

Commit-Queue: Bo Liu <boliu@chromium.org>

Commit-Queue: Bo Liu <boliu@chromium.org>

Cr-Commit-Position: refs/branch-heads/4758@{#1232}

Cr-Branched-From: [4a2cf4baf90326df19c3ee70ff987960d59a386e](#)-refs/heads/main@{#950365}

[modify]

https://crrev.com/cebad8ef22dc7b07430fed392518726a62bd25d4/content/browser/display_cutout/display_cutout_host_impl.h

[modify]

https://crrev.com/cebad8ef22dc7b07430fed392518726a62bd25d4/content/browser/display_cutout/display_cutout_host_impl.cc

Comment 27 by [Git Watcher](#) on Mon, Mar 7, 2022, 3:18 PM EST Project Member

Labels: -merge-approved-99 merge-merged-4844 merge-merged-99

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src/+e3e7862718bce4eb785c59d96359a35ca64c6ac5>

commit [e3e7862718bce4eb785c59d96359a35ca64c6ac5](#)

Author: liberato@chromium.org <liberato@chromium.org>

Date: Mon Mar 07 20:17:13 2022

[M99] Don't use a deleted RenderFrameHost.

Since we do not check for frame liveness, a RenderFrameHost might be deleted (in the use-after-free sense) without another call to RenderFrameDeleted. So, WeakPtr it to avoid these cases.

(cherry picked from commit [4d71d571302a75192f26d9e1122150ae5c600abb](#))

~~Bug: 1299422~~

Change-Id: [Ie4fe85f88ef80f4e4c3d0452397c0e5050ed881c](#)

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3482540>

Reviewed-by: Bo Liu <boliu@chromium.org>

Commit-Queue: Frank Liberato <liberato@chromium.org>

Auto-Submit: Frank Liberato <liberato@chromium.org>

Cr-Original-Commit-Position: refs/heads/main@{#976357}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3508293>

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

Commit-Queue: Bo Liu <boliu@chromium.org>

Cr-Commit-Position: refs/branch-heads/4844@{#997}

Cr-Branched-From: [007241ce2e6c8e5a7b306cc36c730cd07cd38825](#)-refs/heads/main@{#961656}

[modify]

https://crrev.com/e3e7862718bce4eb785c59d96359a35ca64c6ac5/content/browser/display_cutout/display_cutout_host_impl.h

[modify]

https://crrev.com/e3e7862718bce4eb785c59d96359a35ca64c6ac5/content/browser/display_cutout/display_cutout_host_impl.cc

Comment 28 by eakpobaro@google.com on Tue, Mar 8, 2022, 9:38 AM EST Project Member

[Bulk edit]

This has been approved for merge - please merge ASAP

This has been approved for merge, please merge ASAP

Comment 29 by [Git Watcher](#) on Tue, Mar 8, 2022, 5:56 PM EST 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/+db880005f1f0b17ee1702629c225a8044ccc9d3b](https://chromium.googlesource.com/chromium/src/+/db880005f1f0b17ee1702629c225a8044ccc9d3b)

commit [db880005f1f0b17ee1702629c225a8044ccc9d3b](#)

Author: liberato@chromium.org <liberato@chromium.org>

Date: Tue Mar 08 22:55:06 2022

[M100] Don't use a deleted RenderFrameHost.

Since we do not check for frame liveness, a RenderFrameHost might be deleted (in the use-after-free sense) without another call to RenderFrameDeleted. So, WeakPtr it to avoid these cases.

(cherry picked from commit [4d71d571302a75192f26d9e1122150ae5c600abb](#))

~~Bug-1299422~~

Change-Id: [Ie4fe85f88ef80f4e4c3d0452397c0e5050ed881c](#)

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3482540>

Reviewed-by: Bo Liu <boliu@chromium.org>

Commit-Queue: Frank Liberato <liberato@chromium.org>

Auto-Submit: Frank Liberato <liberato@chromium.org>

Cr-Original-Commit-Position: refs/heads/main@{#976357}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3498952>

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

Cr-Commit-Position: refs/branch-heads/4896@{#398}

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

[modify]

https://crrev.com/db880005f1f0b17ee1702629c225a8044ccc9d3b/content/browser/display_cutout/display_cutout_host_impl.h

[modify]

https://crrev.com/db880005f1f0b17ee1702629c225a8044ccc9d3b/content/browser/display_cutout/display_cutout_host_impl.cc

Comment 30 by amyressler@chromium.org on Fri, Mar 11, 2022, 3:24 PM EST Project Member

Labels: Release-1-M99

Comment 31 by amyressler@google.com on Mon, Mar 14, 2022, 6:13 PM EDT Project Member

Labels: CVE-2022-0971 CVE_description-missing

Comment 32 by adetaylor@google.com on Tue, Mar 15, 2022, 2:46 PM EDT Project Member

Cc: rsch...@chromium.org

Comment 33 by [sheriffbot](#) on Wed, Jun 8, 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.

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 34 by lukasza@chromium.org on Thu, Jun 30, 2022, 10:47 AM EDT Project Member

Cc: haraken@chromium.org bartekn@chromium.org

Comment 35 by amyressler@google.com on Thu, Jul 21, 2022, 5:06 PM EDT Project Member

Labels: CVE_description-submitted -CVE_description-missing

Comment 36 by amyressler@chromium.org on Thu, Jul 21, 2022, 6:13 PM EDT Project Member

Labels: -CVE_description-missing --CVE_description-missing

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