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**Owner:**[jinsu...@chromium.org](#)**CC:**

[pnoland@chromium.org](#)  
[adetaylor@chromium.org](#)  
[twell...@chromium.org](#)  
🕒 [wylieb@chromium.org](#)  
[jinsu...@chromium.org](#)  
[fgor...@chromium.org](#)  
[foolip@chromium.org](#)  
[amyressler@chromium.org](#)  
[ender@google.com](#)

**Status:**Fixed (*Closed*)**Components:**

[UI>Browser>Omnibox](#)  
[Blink>Fullscreen](#)  
[UI>Browser>FullScreen](#)

**Modified:**

Jul 29, 2022

**Backlog-Rank:**

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**Editors:**

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**EstimatedDays:**

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**NextAction:**

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**OS:**[Android](#)**Pri:**

1

**Type:**[Bug-Security](#)

Hotlist-Merge-Review  
reward-3000  
Security\_Severity-High  
allpublic  
reward-inprocess  
CVE\_description-submitted  
external\_security\_report  
M-98  
Target-98  
FoundIn-98  
Security\_Impact-Extended  
merge-merged-4896  
merge-merged-100  
Release-0-M100  
CVE-2022-1129

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## Issue 1300253: Security: Chrome for Android Cancel Enter Fullscreen able to Hide Omnibox

Reported by [susah...@gmail.com](#) on Wed, Feb 23, 2022, 2:22 PM EST

[↪](#) [Code](#)

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When requestFullscreen then canceled by append fullscreen element into <html> element using canvas.toBlob to help achieve appropriate timing, surprisingly the omnibox will be hidden instead of restore to visible state.

### VERSION

- Chrome 98.0.4758.101 on Mi 9T; Android 11
- Chrome 98.0.4758.101 on SM-J500F; Android 11
- Chrome Beta 99.0.4844.35 on Mi 9T; Android 11
- Chrome Beta 99.0.4843.35 on SM-J500F; Android 11
- Chrome Beta 99.0.4844.35 on Android Emulator; Android 10 x86\_64
- Chrome Dev 100.0.4891.2 on Mi 9T; Android 11
- Chrome Dev 100.0.4891.2 on SM-J500F; Android 11
- Chrome Dev 100.0.4891.2 on Android Emulator; Android 10 x86

### REPRODUCTION CASE

1. Download and extract hideomniboxspoofer.zip
2. Open terminal in extract directory
3. Run "python -m http.server 8000"
4. On Chrome for Android visit python webserver ipaddress:8000/iframe.html (i.e. 127.0.0.1:8000/iframe.html)
5. Tap subfolder
6. Tap testcase.html
7. Tap "Tap Here" select element
8. Omnibox will be hidden then spoofed with spoof omnibox.

(If omnibox is not hidden as on PoC video, try press back then repeat from step 6)

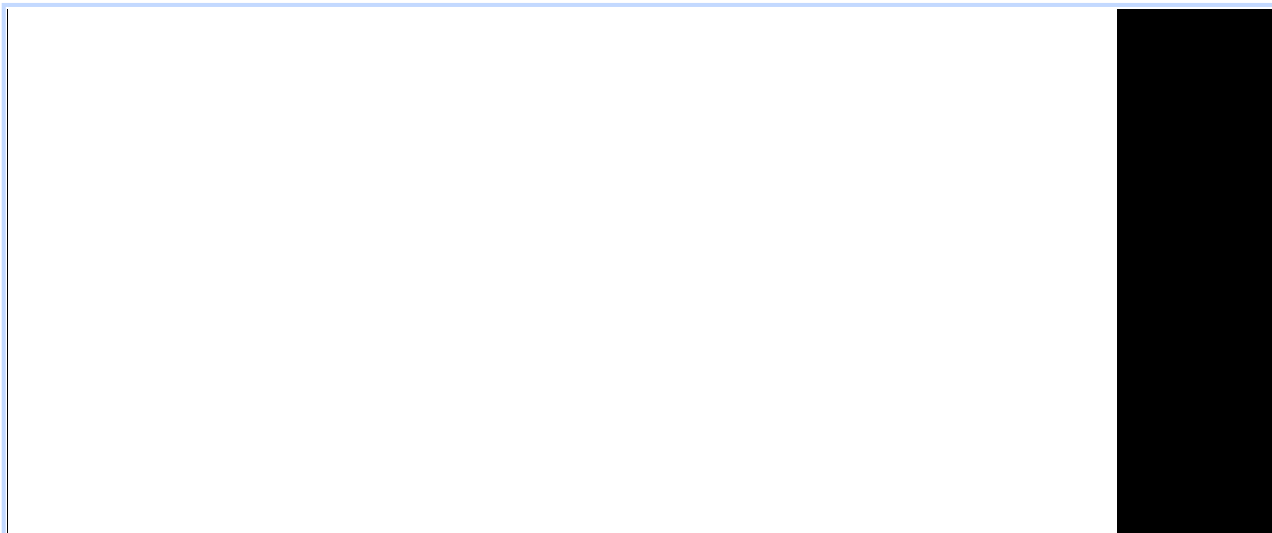
### CREDIT INFORMATION

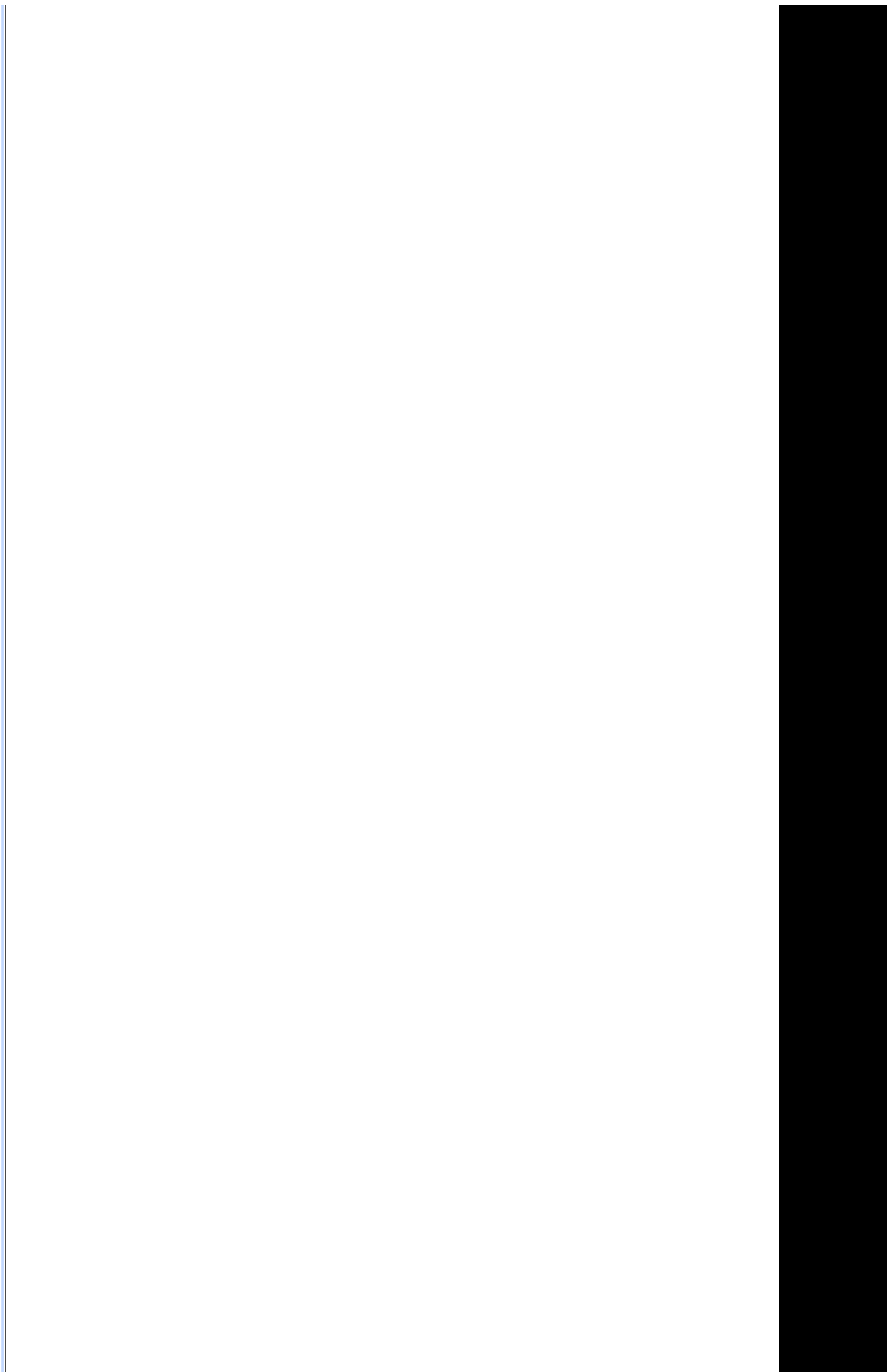
Reporter credit: Irvan Kurniawan (sourc7)

[Deleted] [hideomniboxspoofer.zip](#)

[hideomnibox demonstration on Mi 9T.mp4](#)

3.9 MB [View](#) [Download](#)





0:00 / 0:11

**Comment 1** by [susah...@gmail.com](#) on Wed, Feb 23, 2022, 2:31 PM EST

**hideomniboxspoof.zip**

14.8 KB [Download](#)

**Comment 2** by [sheriffbot](#) on Wed, Feb 23, 2022, 2:34 PM EST Project Member

**Labels:** external\_security\_report

**Comment 3** by [danakj@chromium.org](#) on Wed, Feb 23, 2022, 3:04 PM EST Project Member

**Status:** Assigned (was: Unconfirmed)

**Owner:** foolip@chromium.org

**Labels:** Security\_Severity-High OS-Android Pri-1

**Components:** UI>Browser>FullScreen Blink>Fullscreen

Unable to repro as I have no android device. => fullscreen owners

**Comment 4** by [susah...@gmail.com](#) on Wed, Feb 23, 2022, 8:50 PM EST

@danakj @foolip I think we can also cc [jinsukkim@chromium.org](#) which previously fixed similar hide omnibox [issue 4270593](#)

**Comment 5** by [amyressler@chromium.org](#) on Thu, Mar 3, 2022, 4:38 PM EST Project Member

**Cc:** jinsu...@chromium.org twell...@chromium.org pnoland@chromium.org wylieb@chromium.org

**Components:** UI>Browser>Omnibox

Hi jinsukkim@ and twellington@, not sure if foolip@ was the correct owner for this one so cc'ing y'all and others that have recently tackled other fullscreen issues

**Comment 6** by [amyressler@chromium.org](#) on Thu, Mar 3, 2022, 4:39 PM EST Project Member

**Cc:** fgor...@chromium.org

adding fgorski@ just in case wrt to omnibox

**Comment 7** by [twell...@chromium.org](#) on Thu, Mar 3, 2022, 6:29 PM EST Project Member

**Owner:** jinsu...@chromium.org

**Cc:** foolip@chromium.org

This seems similar to issue 956338 which was fixed in 97.0.4692.102 by reshowing the omnibox when fullscreen is cancelled.

Jinsuk, do you mind taking this one too?

**Comment 8** by [jinsu...@chromium.org](#) on Fri, Mar 4, 2022, 11:45 AM EST Project Member

**Status:** Started (was: Assigned)

Comment 9 by [jinsu...@chromium.org](#) on Fri, Mar 4, 2022, 3:37 PM EST Project Member

What this issue has in common with [Issue 1270593](#) is that an exit-fullscreen request coming immediately after enter-fullscreen puts Chrome fullscreen state in an inconsistent state.

IUUC, this time fullscreen mode is entered without any problem, but the exit-fullscreen coming too soon somehow prevented `LayoutChangeListener[1]` for enter-fullscreen from being invoked at all. This turns some internal states (in terms of layout) different from what we see on screen - we're already in fullscreen, but layout height doesn't seem to get updated - it still is a height of normal screen.

Later when exit-fullscreen's own `LayoutChangeListener[2]` is invoked, it cannot detect any different in layout height and skips `|TabBrowserControlsConstraintsHelper.update(mTab, BrowserControlsState.SHOWN, true)|`, which makes it fail to show omnibox again.

I haven't figured out graceful ways to fix this. One workaround would be to invoke `|TabBrowserControlsConstraintsHelper.update(BrowserControlsState.SHOWN)|` at exit-fullscreen always i.e. even if there is not layout height changes. As far as I can tell, we're supposed to restore the omnibox anyway whenever fullscreen mode is exited. <https://crrev.com/c/3499699>

[1]  
<https://source.chromium.org/chromium/chromium/src/+main:chrome/android/java/src/org/chromium/chrome/browser/fullscreen/FullscreenHtmlApiHandler.java;l=480;drc=9126f59e3fe456c8bad83424bab74ec514380e79>

[2]  
<https://source.chromium.org/chromium/chromium/src/+main:chrome/android/java/src/org/chromium/chrome/browser/fullscreen/FullscreenHtmlApiHandler.java;l=427;drc=9126f59e3fe456c8bad83424bab74ec514380e79>

Comment 10 by [fgor...@chromium.org](#) on Fri, Mar 4, 2022, 6:02 PM EST Project Member

Cc: [ender@google.com](mailto:ender@google.com) [adetaylor@chromium.org](mailto:adetaylor@chromium.org)

I don't have a good idea. But adding ender and Adrian. (The former to generate ideas with other folks, the latter because I am seeing warnings about security labels).

Comment 11 by [adetaylor@chromium.org](#) on Fri, Mar 4, 2022, 6:38 PM EST Project Member

[jinsukkim@fgorski@](#) with regards to security labels - all we need to know is whether this is a regression introduced since M98 (and if so, which milestone?) or if it's existed before that. Please let me know and I'll add the appropriate labels to get the warnings to go away.

Comment 12 by [jinsu...@chromium.org](#) on Fri, Mar 4, 2022, 8:50 PM EST Project Member

I think it has been around for a long time, just waiting to be discovered. So not a regression.

Comment 13 by [adetaylor@chromium.org](#) on Sat, Mar 5, 2022, 12:03 AM EST Project Member

**Labels:** FoundIn-98

Thanks!

Comment 14 by [sheriffbot](#) on Sat, Mar 5, 2022, 12:03 AM EST Project Member

**Labels:** Security\_Impact-Extended

Comment 15 by [sheriffbot](#) on Sat, Mar 5, 2022, 12:46 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 16** by [Git Watcher](#) on Thu, Mar 10, 2022, 6:14 PM EST Project Member

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src/+37d6456a8fcc12e8719f13470aabf71c7a8ac3cb>

commit [37d6456a8fcc12e8719f13470aabf71c7a8ac3cb](#)

Author: Jinsuk Kim <[jinsukkim@chromium.org](mailto:jinsukkim@chromium.org)>

Date: Thu Mar 10 23:13:01 2022

Android: Ensure restoring omnibox upon exiting fullscreen mode

The process of enter-fullscreen consists of a few steps which can be stopped in the middle by an immediately following exit-fullscreen event, leaving the internal and visible states inconsistent. This can lead to an incomplete UI when exit-fullscreen request is completed i.e. omnibox is not restored.

This CL triggers omnibox restoration logic when fullscreen state falls in this inconsistent state in which the internal state indicates omnibox is shown, while actually it is not. This can deal with other (yet to be found) cases where the fullscreen end up in a mismatched state. The restoration logic will be a no-op if everything is correct, so does no harm.

**Bug-1300253**

Change-Id: I1a9bc6bec10d11bbb6fbd03866a39e0f96b187fa

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3499699>

Reviewed-by: Theresa Sullivan <[twellington@chromium.org](mailto:twellington@chromium.org)>

Commit-Queue: Jinsuk Kim <[jinsukkim@chromium.org](mailto:jinsukkim@chromium.org)>

Cr-Commit-Position: refs/heads/main@{#980005}

[modify]

<https://crrev.com/37d6456a8fcc12e8719f13470aabf71c7a8ac3cb/chrome/android/java/src/org/chromium/chrome/browser/fullscreen/FullscreenHtmlApiHandler.java>

**Comment 17** by [xinghuilu@chromium.org](#) on Thu, Mar 17, 2022, 8:31 PM EDT Project Member

Hi, please mark this bug as fixed if all fixes have been landed. Thanks!

**Comment 18** by [jinsu...@chromium.org](#) on Fri, Mar 18, 2022, 10:07 AM EDT Project Member

**Status:** Fixed (was: Started)

**Comment 19** by [sheriffbot](#) on Fri, Mar 18, 2022, 12:41 PM EDT Project Member

**Labels:** reward-topanel

**Comment 20** by [sheriffbot](#) on Fri, Mar 18, 2022, 1:41 PM EDT Project Member

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

[Comment 21](#) by [sheriffbot](#) on Fri, Mar 18, 2022, 2:01 PM EDT Project Member

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

Requesting merge to extended stable M98 because latest trunk commit (980005) appears to be after extended stable branch point (950365).

Requesting merge to stable M99 because latest trunk commit (980005) appears to be after stable branch point (961656).

Requesting merge to beta M100 because latest trunk commit (980005) appears to be after beta branch point (972766).

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

[Comment 22](#) by [sheriffbot](#) on Fri, Mar 18, 2022, 2:02 PM EDT 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 23](#) by [sheriffbot](#) on Fri, Mar 18, 2022, 2:02 PM EDT 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.

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

Owners: benmason (Android), narrysouders (iOS), ced (ChromeOS), pbomma (Desktop)

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

**Comment 24** by [sheriffbot](#) on Fri, Mar 18, 2022, 2:02 PM EDT 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 25** by [jinsu...@chromium.org](#) on Fri, Mar 18, 2022, 2:10 PM EDT Project Member

1. Why does your merge fit within the merge criteria for these milestones?

A patch to a critical security issue

2. What changes specifically would you like to merge? Please link to Gerrit.

<https://chromium-review.googlesource.com/c/chromium/src/+3499699>

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.

N/A



Comment 26 by gov...@chromium.org on Fri, Mar 18, 2022, 2:55 PM EDT Project Member

Cc: amyressler@chromium.org

+Amy (Security TPM) for merge review. Thank you.

Comment 27 by amyressler@chromium.org on Fri, Mar 18, 2022, 6:45 PM EDT Project Member

**Labels:** -Merge-Review-98 -Merge-Review-99 -Merge-Review-100 Merge-Approved-100

M100 merge approved, please merge this fix to branch 4896 NTL 12p PDT, Monday, 21 March so this fix can be included in the M100 stable cut

merge-na M98 and M99 as there are no further planned releases of M99 stable or M98 ES

Comment 28 by Git Watcher on Fri, Mar 18, 2022, 8:52 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/+56470daf4aa89711328c2476403b468ea8adcc17>

commit [56470daf4aa89711328c2476403b468ea8adcc17](#)

Author: Jinsuk Kim <[jinsukkim@chromium.org](mailto:jinsukkim@chromium.org)>

Date: Sat Mar 19 00:51:29 2022

Android: Ensure restoring omnibox upon exiting fullscreen mode

The process of enter-fullscreen consists of a few steps which can be stopped in the middle by an immediately following exit-fullscreen event, leaving the internal and visible states inconsistent. This can lead to an incomplete UI when exit-fullscreen request is completed i.e. omnibox is not restored.

This CL triggers omnibox restoration logic when fullscreen state falls in this inconsistent state in which the internal state indicates omnibox is shown, while actually it is not. This can deal with other (yet to be found) cases where the fullscreen end up in a mismatched state. The restoration logic will be a no-op if everything is correct, so does no harm.

(cherry picked from commit [37d6456a8fcc12e8719f13470aabf71c7a8ac3cb](#))

~~Bug-1300253~~

Change-Id: I1a9bc6bec10d11bbb6fbd03866a39e0f96b187fa

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3499699>

Reviewed-by: Theresa Sullivan <[twellington@chromium.org](mailto:twellington@chromium.org)>

Commit-Queue: Jinsuk Kim <[jinsukkim@chromium.org](mailto:jinsukkim@chromium.org)>

Cr-Original-Commit-Position: refs/heads/main@{#980005}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+3536637>

Auto-Submit: Jinsuk Kim <[jinsukkim@chromium.org](mailto:jinsukkim@chromium.org)>

Commit-Queue: Theresa Sullivan <[twellington@chromium.org](mailto:twellington@chromium.org)>

Cr-Commit-Position: refs/branch-heads/4896@{#691}

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

[modified]

<https://crrev.com/56470daf4aa89711328c2476403b468ea8adcc17/chrome/android/java/src/org/chromium/chrome/browser/fullscreen/FullscreenHtmlApiHandler.java>

**Comment 29** by [amyressler@google.com](mailto:amyressler@google.com) on Wed, Mar 23, 2022, 3:46 PM EDT Project Member

**Labels:** -reward-topanel reward-unpaid reward-3000

\*\*\* Boilerplate reminders! \*\*\*

Please do NOT publicly disclose details until a fix has been released to all our users. Early public disclosure may cancel the provisional reward. Also, please be considerate about disclosure when the bug affects a core library that may be used by other products. Please do NOT share this information with third parties who are not directly involved in fixing the bug. Doing so may cancel the provisional reward. Please be honest if you have already disclosed anything publicly or to third parties. Lastly, we understand that some of you are not interested in money. We offer the option to donate your reward to an eligible charity. If you prefer this option, let us know and we will also match your donation - subject to our discretion. Any rewards that are unclaimed after 12 months will be donated to a charity of our choosing.

Please contact [security-vrp@chromium.org](mailto:security-vrp@chromium.org) with any questions.

\*\*\*\*\*

**Comment 30** by [amyressler@chromium.org](mailto:amyressler@chromium.org) on Wed, Mar 23, 2022, 3:54 PM EDT Project Member

Congratulations, Irvan. The VRP Panel has decided to award you \$3,000 for this report. Thank you for your efforts and nice work!

**Comment 31** by [amyressler@google.com](mailto:amyressler@google.com) on Fri, Mar 25, 2022, 4:55 PM EDT Project Member

**Labels:** -reward-unpaid reward-inprocess

**Comment 32** by [amyressler@chromium.org](mailto:amyressler@chromium.org) on Mon, Mar 28, 2022, 5:54 PM EDT Project Member

**Labels:** Release-0-M100

**Comment 33** by [amyressler@google.com](mailto:amyressler@google.com) on Tue, Mar 29, 2022, 1:13 PM EDT Project Member

**Labels:** CVE-2022-1129 CVE\_description-missing

**Comment 34** by [sheriffbot](#) on Fri, Jun 24, 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 35** by [amyressler@google.com](mailto:amyressler@google.com) on Fri, Jul 22, 2022, 7:36 PM EDT Project Member

**Labels:** CVE\_description-submitted -CVE\_description-missing

**Comment 36** by [amyressler@chromium.org](mailto:amyressler@chromium.org) on Fri, Jul 29, 2022, 5:26 PM EDT Project Member

**Labels:** -CVE\_description-missing --CVE\_description-missing

