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Owner: tbergquist@chromium.org

CC: adetaylor@chromium.org
janag...@google.com
connily@chromium.org
adetaylor@google.com

Status: Fixed (Closed)

Components: ----

Modified: May 14, 2021

Backlog-Rank: ----

Editors: ----

EstimatedDays: ----

NextAction: ----

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

Pri: 1

Type: [Bug-Security](#)

[Security_Impact-Stable](#)
[Security_Severity-High](#)
[ReleaseBlock-Stable](#)
[allpublic](#)
[CVE_description-submitted](#)
[M-90](#)
[Target-90](#)
[merge-merged-4240](#)
[merge-merged-86](#)
[LTR-Merged-86](#)
[LTS-Security-86](#)
[merge-merged-4324](#)
[merge-merged-88](#)
[merge-merged-89](#)
[Release-3-M88](#)
[CVE-2021-21154](#)

Issue 1173269: Security: heap-buffer-overflow in TabStripModel

Reported by [abalg...@microsoft.com](#) on Mon, Feb 1, 2021, 6:55 PM EST

🔗 Code

VULNERABILITY DETAILS

Please provide a brief explanation of the security issue.

VERSION

Chrome Version: 90.0.4406.0 (Developer Build) (64-bit)
Operating System: Windows 10 OS Version 1909 (Build 18363.1316)

REPRODUCTION CASE

1. Host attached PoC and run:

`./chrome.exe --user-data-dir=C:\asan\qtabs --no-first-run --disable-popup-blocking http://localhost/tabs.html`

2. Once you see 3 tabs, hold down shift and click on the main tab (to the left) in order to select all tabs

3. Start dragging the group of tabs and crash will occur.

Only tested on Windows 10, see attached video for demo of steps.

FOR CRASHES, PLEASE INCLUDE THE FOLLOWING ADDITIONAL INFORMATION

Type of crash: browser
Crash State: See attached ASAN log

CREDIT INFORMATION

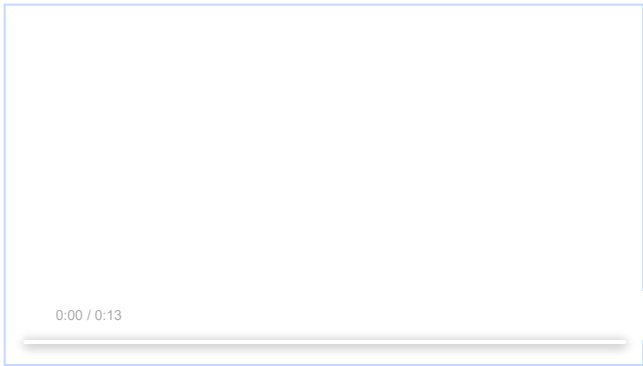
Reporter credit: Abdulrahman Alqabandi, Microsoft Browser Vulnerability Research

tabsasan.txt

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

tabs.mp4

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



tabs.html

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

Comment 1 by [tsepez@chromium.org](#) on Tue, Feb 2, 2021, 1:04 PM EST Project Member

Status: Assigned (was: Unconfirmed)

Owner: [connily@chromium.org](#)

Labels: Security_Impact-Head Security_Severity-High OS-Chrome OS-Fuchsia OS-Linux OS-Mac OS-Windows Pri-1

Components: UI>Browser>TabStrip

connily - related to the work done in

<https://chromium-review.googlesource.com/c/chromium/src/+2020908> ?

Setting sev-high (would be critical for overflow in browser but mitigated by the user-interaction required).

Per the linked CL, I believe this only affects head, but let us know if you believe this goes further back.

Likely to apply to all desktop platforms.

Thanks!

Comment 2 by [connily@chromium.org](#) on Tue, Feb 2, 2021, 1:14 PM EST Project Member

I don't think this is related to the CL linked in [comment #1](#), but the repro steps look very similar to <https://bugs.chromium.org/p/chromium/issues/detail?id=1151799>

However, that bug should be fixed at head. I'll try the repro again, as well as the one in this bug.

Comment 3 by [sheriffbot](#) on Tue, Feb 2, 2021, 1:21 PM EST Project Member

Labels: ReleaseBlock-Stable

This is a serious security regression. If you are not able to fix this quickly, please revert the change that introduced it.

If this doesn't affect a release branch, or has not been properly classified for severity, please update the Security_Impact or Security_Severity labels, and remove the ReleaseBlock label. To disable this altogether, apply ReleaseBlock-NA.

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

Comment 4 by [sheriffbot](#) on Wed, Feb 3, 2021, 12:54 PM EST Project Member

Labels: M-90 Target-90

Setting milestone and target because of Security_Impact=Head and high severity.

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

Comment 5 by [connily@chromium.org](#) on Wed, Feb 3, 2021, 2:23 PM EST Project Member

Owner: [tbergquist@chromium.org](#)

Cc: [connily@chromium.org](#)

+Taylor has kindly agreed to help take a look here, as I'm not sure I can address these in a reasonable timeframe.

Taylor, these all look pretty similar to each other and to <https://bugs.chromium.org/p/chromium/issues/detail?id=1151799>, but with slightly different repros and stack traces. Please feel free to grab some time with me to go over them, or just chat asynchronously.

Thank you!!

Comment 6 by [connily@chromium.org](#) on Thu, Feb 4, 2021, 12:48 PM EST Project Member

Fix for this bug should be in <https://chromium-review.googlesource.com/c/chromium/src/+2673973> (we had the wrong bug attached to the CL).

Comment 7 by [tbergquist@chromium.org](#) on Thu, Feb 4, 2021, 7:44 PM EST Project Member

Status: Fixed (was: Assigned)

Requester, can I ask you to verify the issue is resolved with <https://chromium-review.googlesource.com/c/chromium/src/+2673973> ?

Comment 8 by [abalq...@microsoft.com](#) on Fri, Feb 5, 2021, 9:49 AM EST

LGTM

Comment 9 by [sheriffbot](#) on Fri, Feb 5, 2021, 1:57 PM EST Project Member

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

Comment 10 by [tsepez@chromium.org](#) on Tue, Feb 9, 2021, 6:50 PM EST Project Member

Labels: -Security_Impact-Head Security_Impact-Stable

Comment 11 by [adetaylor@google.com](#) on Tue, Feb 9, 2021, 6:50 PM EST Project Member

Labels: Merge-Request-88 Merge-Approved-89

After discussion with Taylor we consider that this impacts Stable. Applying suitable merge approval to M89 (branch 4389) and a request for M88 merge to be considered later.

Comment 12 by [adetaylor@chromium.org](#) on Wed, Feb 10, 2021, 4:23 PM EST Project Member

Labels: -Merge-Request-88 Merge-Approved-88

Approving merge also to M88, branch 4324.

Comment 13 by [bugdroid](#) on Wed, Feb 10, 2021, 6:17 PM EST Project Member

Labels: -merge-approved-88 merge-merged-4324 merge-merged-88

The following revision refers to this bug:
<https://chromium.googlesource.com/chromium/src/+732093c0526299a24ed4e3fa14f8000ca2f7c39d>

commit 732093c0526299a24ed4e3fa14f8000ca2f7c39d

Author: Taylor Bergquist <tbergquist@chromium.org>

Date: Wed Feb 10 23:16:50 2021

Fix crash when reverting a drag if the source tabstrip changed during the drag.

(cherry picked from commit [88be7f3b2b017c2f7b904db368391182e296b11e](#))

(cherry picked from commit [13d703e9b199942e1241ccf395a8e51619b01597](#))

~~Bug-4473260~~

Change-Id: [Ic6a6faa554c0ef1d6082e98a04a58ccfb5c5cac5](#)

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+2673973>

Reviewed-by: Connie Wan <connily@chromium.org>

Commit-Queue: Taylor Bergquist <tbergquist@chromium.org>

Cr-Original-Original-Commit-Position: refs/heads/master@{#850424}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+2685424>

Auto-Submit: Taylor Bergquist <tbergquist@chromium.org>

Commit-Queue: Connie Wan <connily@chromium.org>

Cr-Original-Commit-Position: refs/branch-heads/4389@{#898}

Cr-Original-Branch-From: [9251c5db2b6d5a59fe4eac7aafa5fed37c139bb7](#)-refs/heads/master@{#843830}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+2688310>

Cr-Commit-Position: refs/branch-heads/4324@{#2164}

Cr-Branch-From: [c73b5a651d37a6c4d0b8e3262cc4015a5579c6c8](#)-refs/heads/master@{#827102}

[modify] https://crrev.com/732093c0526299a24ed4e3fa14f8000ca2f7c39d/chrome/browser/ui/tabs/tab_strip_model.h

[modify] https://crrev.com/732093c0526299a24ed4e3fa14f8000ca2f7c39d/chrome/browser/ui/tabs/tab_strip_model.cc

Comment 14 by [adetaylor@google.com](#) on Fri, Feb 12, 2021, 7:35 PM EST Project Member

Labels: Release-3-M88

Comment 15 by [sheriffbot](#) on Mon, Feb 15, 2021, 12:14 PM EST Project Member

Cc: adetaylor@google.com adetaylor@chromium.org

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 16 by [janag...@google.com](#) on Mon, Feb 15, 2021, 12:15 PM EST Project Member

Cc: janag...@google.com

Labels: LTS-Security-86 Merge-Request-86-LTS

Comment 17 by [gianluca@google.com](#) on Tue, Feb 16, 2021, 3:43 AM EST Project Member

Labels: Merge-Approved-86-LTS

Comment 18 by [bugdroid](#) on Wed, Feb 17, 2021, 6:00 AM EST Project Member

Labels: merge-merged-4240 merge-merged-86

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src/+0c76a72c4db232b57e7367a6287a53ca6e4904b2>

commit 0c76a72c4db232b57e7367a6287a53ca6e4904b2

Author: Taylor Bergquist <tbergquist@chromium.org>

Date: Wed Feb 17 10:59:09 2021

Fix crash when reverting a drag if the source tabstrip changed during the drag.

(cherry picked from commit [88be7f3b2b017c2f7b904db368391182e296b11e](#))

(cherry picked from commit [13d703e9b199942e1241ccf395a8e51619b01597](#))

(cherry picked from commit [732093c0526299a24ed4e3fa14f8000ca2f7c39d](#))

~~Bug-4473260~~

Change-Id: [Ic6a6faa554c0ef1d6082e98a04a58ccfb5c5cac5](#)

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+2673973>

Reviewed-by: Connie Wan <connily@chromium.org>

Commit-Queue: Taylor Bergquist <tbergquist@chromium.org>

Cr-Original-Original-Original-Commit-Position: refs/heads/master@{#850424}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+2685424>

Auto-Submit: Taylor Bergquist <tbergquist@chromium.org>

Commit-Queue: Connie Wan <connily@chromium.org>

Cr-Original-Original-Commit-Position: refs/branch-heads/4389@{#898}

Cr-Original-Original-Branch-From: [9251c5db2b6d5a59fe4eac7aafa5fed37c139bb7](#)-refs/heads/master@{#843830}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+2688310>

Cr-Original-Commit-Position: refs/branch-heads/4324@{#2164}

Cr-Original-Branch-From: [c73b5a651d37a6c4d0b8e3262cc4015a5579c6c8](#)-refs/heads/master@{#827102}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+2693623>

Reviewed-by: Victor-Gabriel Savu <vsavu@google.com>

Reviewed-by: Taylor Bergquist <tbergquist@chromium.org>

Commit-Queue: Jana Grill <janagrill@chromium.org>

Cr-Commit-Position: refs/branch-heads/4240@{#1543}

Cr-Branch-From: [f297677702651916bbf65e59c0d4bbd4ce57d1ee](#)-refs/heads/master@{#800218}

[modify] https://crrev.com/0c76a72c4db232b57e7367a6287a53ca6e4904b2/chrome/browser/ui/tabs/tab_strip_model.h

[modify] https://crrev.com/0c76a72c4db232b57e7367a6287a53ca6e4904b2/chrome/browser/ui/tabs/tab_strip_model.cc

Comment 19 by [janag...@google.com](#) on Wed, Feb 17, 2021, 7:58 AM EST Project Member

Labels: -Merge-Request-86-LTS -Merge-Approved-86-LTS LTR-Merged-86

Comment 20 by [pbommana@google.com](#) on Thu, Feb 18, 2021, 1:00 PM EST Project Member

The change was merged to M89 as part of <https://chromium-review.googlesource.com/c/chromium/src/+2685424>.

Taylor pinged me offline and informed that he got the bug_id wrong i.e., 1173629 instead of 1173269.

@adetaylor want to check if this exposed something, Since 1173629 is a public bug?

[Comment 21](#) by adetaylor@chromium.org on Thu, Feb 18, 2021, 1:03 PM EST Project Member

Labels: -Merge-Approved-89 merge-merged-89

No worries about the exposure. CLs are publicly visible in gerrit anyway. Thanks for checking though.

[Comment 22](#) by amyressler@google.com on Mon, Feb 22, 2021, 4:31 PM EST Project Member

Labels: CVE-2021-21154 CVE_description-missing

[Comment 23](#) by amyressler@google.com on Mon, Feb 22, 2021, 4:33 PM EST Project Member

Labels: -CVE_description-missing CVE_description-submitted

[Comment 24](#) by [sheriffbot](#) on Fri, May 14, 2021, 1:51 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