



Comment 3 by zhanj...@gmail.com on Sat, Apr 17, 2021, 9:11 AM EDT

asan2.txt

15.2 KB View Download

Comment 4 by est...@chromium.org on Mon, Apr 19, 2021, 4:49 PM EDT Project Member

Status: Assigned (was: Unconfirmed)

Owner: dewittj@chromium.org

Cc: dim...@chromium.org knollr@chromium.org peter@chromium.org

Labels: Security\_Severity-High Security\_Impact-Stable M-89 OS-Android OS-Chrome OS-Linux OS-Mac OS-Windows Pri-1

Components: UI>Notifications

Tentatively triaging as High assuming it's not possible to exploit this without a compromised renderer. (Also, even if it were possible, needing to grant notifications permission might still downgrade to High.)

Notifications owners, could you please take a look?

Comment 5 by est...@chromium.org on Mon, Apr 19, 2021, 4:52 PM EDT Project Member

Cc: mvano...@chromium.org

Comment 6 by dewittj@chromium.org on Mon, Apr 19, 2021, 5:55 PM EDT Project Member

After a quick look, I found that Blink normally populates an action icon image for each notification action, so this would require a compromised renderer.

Comment 7 by dewittj@chromium.org on Mon, Apr 19, 2021, 10:28 PM EDT Project Mo

Status: Started (was: Assigned)

CL in review: https://chromium-review.googlesource.com/c/chromium/src/+/2838205

Comment 8 by sheriffbot on Tue, Apr 20, 2021, 12:21 PM EDT Project Member

Labels: -M-89 M-90 Target-90

Comment 9 by Git Watcher on Fri, Apr 23, 2021, 3:16 PM EDT Project Member

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/3b28dc50187b22e080ad9c1e4e6c4f3b08f3136d

commit 3b28dc50187b22e080ad9c1e4e6c4f3b08f3136d Author: Justin DeWitt <dewittj@chromium.org>

Date: Fri Apr 23 19:15:56 2021

Notifications: crash if improper action icons sent from renderer.

Previously, the code only called DCHECK but as this data is from a

renderer we should probably crash the browser.

Change-ld: If4d9d48c8e18a3ed9c8bb3a50b952591259e0db5

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2838205

Commit-Queue: Justin DeWitt <dewittj@chromium.org> Reviewed-by: Peter Beverloo <peter@chromium.org> Cr-Commit-Position: refs/heads/master@{#875788}

[modify] https://crrev.com/3b28dc50187b22e080ad9c1e4e6c4f3b08f3136d/chrome/browser/notifications/platform\_notification\_service\_impl.cc [modify] https://crrev.com/3b28dc50187b22e080ad9c1e4e6c4f3b08f3136d/content/browser/notifications/blink\_notification\_service\_impl.cc

[modify] https://crrev.com/3b28dc50187b22e080ad9c1e4e6c4f3b08f3136d/content/browser/notifications/blink\_notification\_service\_impl.h

Comment 10 by dewittj@chromium.org on Fri, Apr 23, 2021, 6:06 PM EDT Project Member

Cc: est...@chromium.org

Emily, after this is verified on Canary, does security team want to merge to M90 or M91?

Comment 11 by est...@chromium.org on Fri, Apr 23, 2021, 8:14 PM EDT Project Men

This is High severity (memory corruption in browser process triggerable from a compromised renderer; see

https://chromium.googlesource.com/chromium/src/+/master/docs/security/severity-guidelines.md#TOC-High-severity) so it should be merged to current stable milestone

Comment 12 by dewittj@chromium.org on Tue, Apr 27, 2021, 7:56 PM EDT Project Member

Labels: Merge-Request-90 Merge-Request-91

Requesting merge. Canary does not see a spike in crashes in %notification\_service% so I think this is safe enough.

g=expanded custom data.ChromeCrashProto.channel%3D%27canary%27+AND+expanded custom data.ChromeCrashProto.magic signature 1.name+LIKE+%27%25n otification\_service%25%27#productname:1000,productversion:1020,

processtype, + magic signature: 100, magic signature: 50, stable signature: 50, product version by os: 20, device: 1000, day: 110, experiments: 10000 and 100000 and 10000 and 100000 and 10000 and 100000 and 10000 and 100000 and 10000 and 100000 and 10000 and 100000 and 10000 and 1000

Comment 13 by sheriffbot on Tue, Apr 27, 2021, 7:59 PM EDT Project Me

Labels: -Merge-Request-91 Hotlist-Merge-Review Merge-Review-91

This bug requires manual review: M91's targeted beta branch promotion date has already passed, so this requires manual review

Before a merge request will be considered, the following information is required to be added to this bug:

- 1. Does your merge fit within the Merge Decision Guidelines?
- Chrome: https://chromium.googlesource.com/chromium/src.git/+/master/docs/process/merge\_request.md#when-to-request-a-merge
- Chrome OS: https://goto.google.com/cros-release-branch-merge-guidelines
- 2. Links to the CLs you are requesting to merge
- Has the change landed and been verified on ToT?
- 4. Does this change need to be merged into other active release branches (M-1, M+1)?
- 5. Why are these changes required in this milestone after branch?
- 6. Is this a new feature?
- 7. If it is a new feature, is it behind a flag using finch?

## Chrome OS Only:

8. Was the change reviewed and approved by the Eng Prod Representative? See Eng Prod ownership by component: http://go/cros-engprodcomponents

Please contact the milestone owner if you have questions.

Owners: benmason@(Android), bindusuvarna@(iOS), kbleicher@(ChromeOS), pbommana@(Desktop)

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

Comment 14 by pbommana@google.com on Wed, Apr 28, 2021, 3:45 PM EDT Project Member

Cc: adetaylor@chromium.org pbomm...@chromium.org

dewittj@ please reply to the questions posted in comment#13, thank you.

+Adrian(Security TPM)

Comment 15 by adetaylor@chromium.org on Wed, Apr 28, 2021, 5:39 PM EDT Project Member

Labels: -Merge-Review-91 Merge-Approved-91

Please mark it as fixed if it is: https://chromium.googlesource.com/chromium/src/+/master/docs/security/security-labels.md#TOC-Merge-labels - then the merge process would have kick in automatically.

Assuming this is deemed a complete fix, approving merge to M91, branch 4472. Merges to M90 will be approved at a later date when we've got a release coming up.

Comment 16 by dewittj@google.com on Wed, Apr 28, 2021, 6:54 PM EDT Project Member

Status: Fixed (was: Started)

#15 - Apologies, this is different from the normal merge process.

Comment 17 by adetaylor@chromium.org on Wed, Apr 28, 2021, 7:36 PM EDT Project Member

Cc: josa...@google.com

Comment 18 by sheriffbot on Thu, Apr 29, 2021, 12:42 PM EDT Project Member

Labels: reward-topanel

Comment 19 by sheriffbot on Thu, Apr 29, 2021, 2:02 PM EDT Project Member

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

Comment 20 by Git Watcher on Thu, Apr 29, 2021, 4:48 PM EDT Project Member

Labels: -merge-approved-91 merge-merged-4472 merge-merged-91

The following revision refers to this bug:

ium/src/+/cdb8756d339fa80f1f7ad12b46ae9651bc4768d8 https://chromium.googlesource.com/chro

commit cdb8756d339fa80f1f7ad12b46ae9651bc4768d8

Author: Justin DeWitt <dewittj@chromium.org>

Date: Thu Apr 29 20:47:08 2021

Notifications: crash if improper action icons sent from renderer.

Previously, the code only called DCHECK but as this data is from a renderer we should probably crash the browser

(cherry picked from commit 3b28dc50187b22e080ad9c1e4e6c4f3b08f3136d)

Change-ld: lf4d9d48c8e18a3ed9c8bb3a50b952591259e0db5

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2838205

Commit-Queue: Justin DeWitt <dewittj@chromium.org> Reviewed-by: Peter Beverloo <peter@chromium.org

Cr-Original-Commit-Position: refs/heads/master@{#875788}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2860443

Owners-Override: Justin DeWitt <dewittj@chromium.org> Auto-Submit: Justin DeWitt <dewittj@chromium.org> Commit-Queue: Adrian Taylor <adetaylor@chromium.org>

Reviewed-by: Adrian Taylor <adetaylor@chromium.org> Cr-Commit-Position: refs/branch-heads/4472@{#577}

Cr-Branched-From: 3d60439cfb36485e76a1c5bb7f513d3721b20da1-refs/heads/master@{#870763}

[modify] https://crrev.com/cdb8756d339fa80f1f7ad12b46ae9651bc4768d8/chrome/browser/notifications/platform\_notification\_service\_implice [modify] https://crrev.com/cdb8756d339fa80f1f7ad12b46ae9651bc4768d8/content/browser/notifications/blink\_notification\_service\_impl.cc [modify] https://crrev.com/cdb8756d339fa80f1f7ad12b46ae9651bc4768d8/content/browser/notifications/blink\_notification\_service\_impl.h

Comment 21 by adetaylor@google.com on Tue, May 4, 2021, 12:56 PM EDT Project Me

Labels: -Merge-Request-90 Merge-Approved-90

Approving merge to M90, branch 4430. Please merge by EOD PST Thursday for inclusion in next week's security refresh.

Comment 22 by gov...@chromium.org on Tue, May 4, 2021, 2:11 PM EDT Project Member

Please merge your change to M90 branch 4430 ASAP so we can pick it up for next M90 respin. Thank you.

Comment 23 by Git Watcher on Tue, May 4, 2021, 5:47 PM EDT Project Member

Labels: -merge-approved-90 merge-merged-4430 merge-merged-90

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/4c448c7fa33f21361e816b5fed16ec1e36ec6f5d

commit 4c448c7fa33f21361e816b5fed16ec1e36ec6f5d Author: Justin DeWitt <dewitti@chromium.org>

Date: Tue May 04 21:46:15 2021

Notifications: crash if improper action icons sent from rendere

Previously, the code only called DCHECK but as this data is from a renderer we should probably crash the browse

(cherry picked from commit 3b28dc50187b22e080ad9c1e4e6c4f3b08f3136d)

Change-Id: If4d9d48c8e18a3ed9c8bb3a50b952591259e0db5

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2838205

Commit-Queue: Justin DeWitt <dewittj@chromium.org> Reviewed-by: Peter Beverloo <peter@chromium.org>

Cr-Original-Commit-Position: refs/heads/master@{#875788}

/c/chromium/src/+/2872493 Reviewed-on: https://chromium-review.googlesource.com

Auto-Submit: Justin DeWitt <dewitti@chromium.org> Commit-Queue: Krishna Govind <govind@chromium.org>

Reviewed-by: Adrian Taylor <adetaylor@chromium.org>

Reviewed-by: Krishna Govind <govind@chromium.org>

Owners-Override: Krishna Govind <govind@chromium.org>

Cr-Commit-Position: refs/branch-heads/4430@{#1394}

Cr-Branched-From: e5ce7dc4f7518237b3d9bb93cccca35d25216cbe-refs/heads/master@{#857950}

 $\label{lem:lemodify} \begin{tabular}{l} \textbf{Intered} & \textbf{$ [modify] https://crrev.com/4c448c7fa33f21361e816b5fed16ec1e36ec6f5d/content/browser/notifications/blink notification service impl.cr

[modify] https://crrev.com/4c448c7fa33f21361e816b5fed16ec1e36ec6f5d/content/browser/notifications/blink\_notification\_service\_impl.h

Labels: Release-3-M90

Comment 25 by vsavu@google.com on Mon, May 10, 2021, 9:24 AM EDT Project Me

Comment 24 by amyressler@chromium.org on Fri, May 7, 2021, 5:21 PM EDT Project Members

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

Comment 26 by amyressler@google.com on Mon, May 10, 2021, 9:54 AM EDT Project Member

Labels: CVE-2021-30512 CVE\_description-missing

Comment 27 by Git Watcher on Wed, May 12, 2021, 7:52 AM EDT Project Member

Labels: merge-merged-4430 101

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/df92940ea80e516cc741bfe19ee23b9687ac43b6

commit df92940ea80e516cc741bfe19ee23b9687ac43b6

Author: Justin DeWitt <dewittj@chromium.org>

Date: Wed May 12 11:51:09 2021

Notifications: crash if improper action icons sent from renderer.

Previously, the code only called DCHECK but as this data is from a renderer we should probably crash the browser.

(cherry picked from commit 3b28dc50187b22e080ad9c1e4e6c4f3b08f3136d)

(cherry picked from commit 4c448c7fa33f21361e816b5fed16ec1e36ec6f5d)

Change-Id: If4d9d48c8e18a3ed9c8bb3a50b952591259e0db5

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2838205 Commit-Queue: Justin DeWitt <dewittj@chromium.org>

Reviewed-by: Peter Beverloo <peter@chromium.org>

Cr-Original-Original-Commit-Position: refs/heads/master@{#875788} Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2872493

Auto-Submit: Justin DeWitt <dewittj@chromium.org>

Commit-Queue: Krishna Govind <govind@chromium.org> Reviewed-by: Adrian Taylor <adetaylor@chromium.org>

Reviewed-by: Krishna Govind <govind@chromium.org>

Owners-Override: Krishna Govind <govind@chromium.org

Cr-Original-Commit-Position: refs/branch-heads/4430@{#1394}

Cr-Original-Branched-From: e5ce7dc4f7518237b3d9bb93cccca35d25216cbe-refs/heads/master@{#857950}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2884075

Owners-Override: Victor-Gabriel Savu <vsavu@google.com>

Reviewed-by: Achuith Bhandarkar <achuith@chromium.org>

Commit-Queue: Victor-Gabriel Savu <vsavu@google.com

Cr-Commit-Position: refs/branch-heads/4430\_101@{#27} Cr-Branched-From: 3e9034a21f4b1f6707146b1309e001c3321ab48a-refs/branch-heads/4430@{#1364}

Cr-Branched-From: e5ce7dc4f7518237b3d9bb93cccca35d25216cbe-refs/heads/master@{#857950}

 $[\textbf{modify}] \ \textbf{https://crrev.com/df92940ea80e516cc741bfe19ee23b9687ac43b6/chrome/browser/notifications/platform\_notification\_service\_impl.cc$ [modify] https://crrev.com/df92940ea80e516cc741bfe19ee23b9687ac43b6/content/browser/notifications/blink\_notification\_service\_impl.cc [modify] https://crrev.com/df92940ea80e516cc741bfe19ee23b9687ac43b6/content/browser/notifications/blink\_notification\_service\_impl.h

Comment 28 by gianluca@google.com on Wed, May 12, 2021, 12:31 PM EDT Project Member Labels: -LTS-Merge-Request-86 LTS-Merge-Approved-86

Comment 29 by Git Watcher on Wed, May 12, 2021, 2:09 PM EDT Project Member

Labels: merge-merged-4240

The following revision refers to this bug:

https://chromium.googlesource.com/chromium/src/+/fb27b32078021c3ff911d90428e410c7f2efbafb

commit fb27b32078021c3ff911d90428e410c7f2efbafb

Author: Justin DeWitt <dewitti@chromium.org>

Date: Wed May 12 18:08:04 2021

Notifications: crash if improper action icons sent from renderer.

Previously, the code only called DCHECK but as this data is from a renderer we should probably crash the browser.

(cherry picked from commit 3b28dc50187b22e080ad9c1e4e6c4f3b08f3136d)

Change-Id: If4d9d48c8e18a3ed9c8bb3a50b952591259e0db5

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2838205

Commit-Queue: Justin DeWitt <dewittj@chromium.org>
Reviewed-by: Peter Beverloo <peter@chromium.org>

Cr-Original-Commit-Position: refs/heads/master@{#875788}

Reviewed-on: https://chromium-review.googlesource.com/c/chromium/src/+/2883723

Owners-Override: Victor-Gabriel Savu <vsavu@google.com> Reviewed-by: Achuith Bhandarkar <achuith@chromium.org> Commit-Queue: Victor-Gabriel Savu <vsavu@google.com> Cr-Commit-Position: refs/branch-heads/4240@(#1635)

Cr-Branched-From: f297677702651916bbf65e59c0d4bbd4ce57d1ee-refs/heads/master@{#800218}

[modify] https://crrev.com/fb27b32078021c3ff911d90428e410c7f2efbafb/chrome/browser/notifications/platform\_notification\_service\_impl.cc [modify] https://crrev.com/fb27b32078021c3ff911d90428e410c7f2efbafb/content/browser/notifications/blink\_notification\_service\_impl.cc [modify] https://crrev.com/fb27b32078021c3ff911d90428e410c7f2efbafb/content/browser/notifications/blink\_notification\_service\_impl.h

Comment 30 by danakj@chromium.org on Wed, May 12, 2021, 6:38 PM EDT Project Member

It looks like we have a separate list of NotificationActions and icons for those actions. The icons in NotificationResources should move to be inside each NotificationAction to prevent us from having 2 lists with dependent sizes in a mojorn.

I wonder if there's some way to prevent dependent lists like this.

Comment 31 by amyressler@google.com on Wed, May 12, 2021, 7:11 PM EDT Project Member

Labels: -reward-topanel reward-unpaid reward-20000

\*\*\* 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 with any questions.

\*\*\*\*\*\*\*\*\*\*

Comment 32 by amyressler@chromium.org on Wed, May 12, 2021, 7:27 PM EDT Project Member

Congratulations! The VRP Panel has decided to award you \$20,000 for this report. Very nice work!

Comment 33 by dcheng@chromium.org on Wed, May 12, 2021, 7:42 PM EDT Project Member

Cc: dcheng@chromium.org

Can we make a followup fix here? The current way the IPC is structured violates the Mojo guidelines. See

https://chromium.googlesource.com/chromium/src/+/refs/heads/main/docs/security/mojo.md#use-structured-types ("avoid parallel arrays of data")

Comment 34 by amyressler@google.com on Mon, May 17, 2021, 2:16 PM EDT Project Member

Labels: -reward-unpaid reward-inprocess

Comment 35 by amyressler@google.com on Fri, Jun 4, 2021, 7:23 PM EDT Project Member

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

Comment 36 by sheriffbot on Thu, Aug 19, 2021, 1:30 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

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