

Closed Bug 1713259 (CVE-2021-29975) Opened 2 years ago Closed 2 years ago

Show form reportValidity validationMessage on any website

▼ Categories

Product: Toolkit ▾
Component: XUL Widgets ▾

Type: defect

Priority: **Not set** Severity: **--**

▼ Tracking

Status: RESOLVED FIXED
Milestone: 91 Branch

Tracking Flags:

	Tracking	Status
firefox-esr78	---	unaffected
firefox88	---	wontfix
firefox89	---	wontfix
firefox90	---	fixed
firefox91	---	fixed

► **People** (Reporter: sourc7, Assigned: enndeakin)

► **References** (Regression)

► **Details** (Keywords: csectype-spoof, regression, sec-moderate, Whiteboard: [reporter-external] [client-bounty-form] [verif?][adv-main90+])

▼ Attachments

[spooof.bundle.html](#)
2 years ago **Irvan Kurniawan (:sourc7)**
1.69 KB, text/html

Details

Firefox - Spoof reportValidity validationMessage on Twitter.mp4
2 years ago Irvan Kurniawan (:sourc7)
719.07 KB, video/mp4

Details

[spooof.bundle.cleanmessage.html](#)
2 years ago **Irvan Kurniawan (:sourc7)**
1.68 KB, text/html

Details

Firefox - Spoof reportValidity validationMessage on Twitter with Clean Message.mp4
2 years ago [Irvan Kurniawan \(:sourc7\)](#)
707.71 KB, video/mp4

Details

Bug 1713259, hide form validation popup when switching pages, r=gijs
2 years ago **Neil Deakin**
48 bytes, text/x-phabricator-request

jcristau : approval-mozilla-beta+

[Details](#) | [Review](#)

[advisory.txt](#)
2 years ago Tom Ritter [:tjr]
340 bytes, text/plain

Details

Bottom ▾ Tags ▾ Timeline ▾



Irvan Kurniawan (:sourc7) Reporter

Description • 2 years ago

Attached file [spoof.bundle.html](#) — Details

After set `reportValidity()` as `canvas.toBlob` callback and set `contenteditable` to `true`, the `reportValidity` `validationMessage` will persist even the tab was closed. As the `validationMessage` is persist on the screen, after the tab was closed the `validationMessage` still show to previous active tab.

In this report I demonstrate I able to spoof validationMessage on Twitter then overlap the Twitter button intent (which press enter also works) to retweet/like the tweet.

As the validationMessage is showed on secure domain, user will likely trust the message is from the website, and the validationMessage will overlap Twitter button intent message so user won't notice that press enter will retweet/like the tweet.

Mozregression show it is regression of [Bug 1684792](#), open form validation popup anchored at screen coordinate as datetime picker and select do so that it is positioned correctly in out of process iframes

Affected version:

- Firefox Nightly 90.0a1 (2021-05-27) (64-bit)
- Firefox Release 88.0.1 (64-bit)

Unaffected version:

- Firefox 78.10.1esr (64-bit)

Steps to Reproduce:

1. Visit attached spoof.bundle.html
2. Click "Spoof validationMessage" button
3. Validation message appear on Twitter website
4. If you're logged in then press Enter to like the tweet

Flags: sec-bounty?



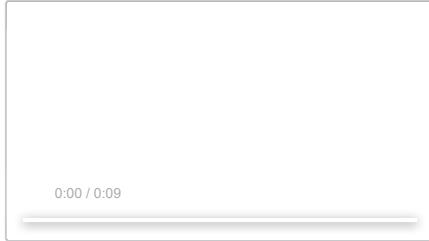
Irvan Kurniawan (:sourc7)

Reporter

Comment 1 • 2 years ago



Attached video [Firefox - Spoof reportValidity validationMessage on Twitter.mp4](#) — Details



Irvan Kurniawan (:sourc7)

Reporter

Comment 2 • 2 years ago



Attached file [spoof.bundle.cleanmessage.html](#) — Details



Hereby I attached the testcase with invisible unicode symbol on custom validationMessage.



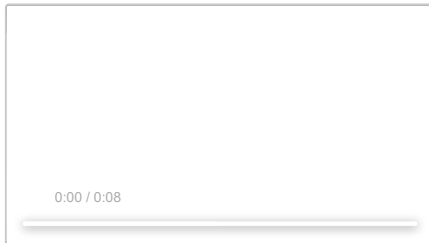
Irvan Kurniawan (:sourc7)

Reporter

Comment 3 • 2 years ago



Attached video [Firefox - Spoof reportValidity validationMessage on Twitter with Clean Message.mp4](#) — Details



Daniel Veditz [:dveditz]

Comment 4 • 2 years ago



I can confirm this. When I try it the validation panel doesn't cover the twitter "like" confirmation as in the video, but it's still present and that's the heart of the problem. I assume in a real attack the differences could be researched and accounted for (OS? site custom zoom level? fonts?), and even if not, the panel contents will be assumed to come from the visibly showing site and could be used for various other spoofs.

Type: task → defect

status-firefox88: --- → wontfix

status-firefox89: --- → affected

status-firefox90: --- → affected

status-firefox-esr78: --- → unaffected

Component: Security → XUL Widgets

Flags: needinfo?(enndeakin)

Keywords: csectype-spoof

Product: Firefox → Toolkit

Regressed by: [4694703](#)



BMO Automation

Updated • 2 years ago



Has Regression Range: --- → yes

Keywords: regression



Neil Deakin

Assignee

Comment 5 • 2 years ago



Attached file [Bug 1713259, hide form validation popup when switching pages, r=gijs](#) — Details



Phabricator Automation

Updated • 2 years ago



Assignee: nobody → enndeakin

Status: NEW → ASSIGNED













Irvan Kurniawan (:sourc7)





Reporter

Updated • 2 years ago



Summary: Show reportValidity validationMessage on any website → Show form reportValidity validationMessage on any website

<div>  <div> Neil Deakin Assignee </div> <div> Comment 6 • 2 years ago </div> </div> <div></div>	—
Gijs mentioned that the security severity needs to be set to land this.	
Flags: needinfo?(enndeakin) → needinfo?(dveditz)	
<div>  <div> Daniel Veditz [dveditz] </div> <div> Updated • 2 years ago </div> </div> <div></div>	—
Flags: needinfo?(dveditz) Keywords: sec-moderate	
<div>  <div> Sebastian Hengst [aryx] (needinfo me if it's about an intermittent or backout) </div> <div> Comment 7 • 2 years ago </div> </div> <div></div>	—
hide form validation popup when switching pages, r=Gijs https://hg.mozilla.org/integration/autoland/rev/7324f82612ca091548dc32f2b2756a22c0a3d6b5 https://hg.mozilla.org/mozilla-central/rev/7324f82612ca	
Group: firefox-core-security → core-security-release Status: ASSIGNED → RESOLVED Closed: 2 years ago status-firefox91 : --- → fixed Resolution: --- → FIXED Target Milestone: --- → 91 Branch	
<div>  <div> :Gijs (he/him) </div> <div> Comment 8 • 2 years ago </div> </div> <div></div>	—
Does this want uplift to 90? And have you put the test up in a separate bug somewhere so we can land that after we ship the fix? :-)	
Flags: needinfo?(enndeakin)	
<div>  <div> Ryan VanderMeulen [RyanVM] </div> <div> Updated • 2 years ago </div> </div> <div></div>	—
status-firefox89 : affected → wontfix	
<div>  <div> Neil Deakin Assignee </div> <div> Comment 9 • 2 years ago </div> </div> <div></div>	—
Comment on attachment 9224284 [details] Bug 1713259 , hide form validation popup when switching pages, r=gijs	
<h3>Beta/Release Uplift Approval Request</h3> <ul style="list-style-type: none"> User impact if declined: A page can popup up an invalid form with a custom message and then redirect to another page, possibly tricking the user into thinking they are on another page. Is this code covered by automated tests?: Yes Has the fix been verified in Nightly?: Yes Needs manual test from QE?: No If yes, steps to reproduce: Automated test will be in another bug. List of other uplifts needed: None Risk to taking this patch: Low Why is the change risky/not risky? (and alternatives if risky): String changes made/needed: None 	
Flags: needinfo?(enndeakin) Attachment #9224284 - Flags: approval-mozilla-beta?	
<div>  <div> Julien Cristau [jcristau] </div> <div> Comment 10 • 2 years ago </div> </div> <div></div>	—
Comment on attachment 9224284 [details] Bug 1713259 , hide form validation popup when switching pages, r=gijs approved for 90.0b5	
Attachment #9224284 - Flags: approval-mozilla-beta? → approval-mozilla-beta+	
<div>  <div> Julien Cristau [jcristau] </div> <div> Comment 11 • 2 years ago </div> </div> <div></div>	—
uplift	
https://hg.mozilla.org/releases/mozilla-beta/rev/2a5a6bc641a4	
status-firefox90 : affected → fixed	
Flags: in-testsuite?	
<div>  <div> Daniel Veditz [dveditz] </div> <div> Comment 12 • 2 years ago </div> </div> <div></div>	—
Severity is on the low end of moderate, but the combination is clever and we are awarding a bounty for it. In this particular example it's not entirely convincing due to the ugliness of the prompt, but it might just confuse people enough to work. "on top" elements strike again :-(
Flags: sec-bounty? → sec-bounty+	
<div>  <div> Cornel Ionce [noni] [Hubs QA] </div> </div> <div></div>	—

Updated • 2 years ago	
QA Whiteboard: [post-critsmash-triage] Flags: qe-verify-	
 Tom Ritter [tjr] Updated • 2 years ago	-
Whiteboard: [reporter-external] [client-bounty-form] [verif?] → [reporter-external] [client-bounty-form] [verif?][adv-main90+]	
 Tom Ritter [tjr] Comment 13 • 2 years ago	-
Attached file advisory.txt — Details <div></div>	
 Tom Ritter [tjr] Updated • 2 years ago	-
Alias: CVE-2021-29975	
 Daniel Veditz [dveditz] Updated • 1 year ago	-
Group: core-ecucity-release	

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