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Fix reconnections on single media permission changes #7034

[Merged](#)

nickvergessen merged 12 commits into `master` from `fix-reconnections-on-single-media-permission-changes` on Apr 4

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danxuliu commented on Mar 21 • edited ▾

Member

Fixes [#7048](#)

Until now the WebUI code treated audio and video permissions as a combined permission: either both were enabled or both were disabled. This was inherited from the initial implementation, but it is no longer the case; it is possible to have audio permissions without video permissions and the other way around.

Besides that this pull request also fixes some other related issues.

Unfortunately there are a lot of possible combinations between permissions and devices, as can be seen by the scenarios below (which only include those that currently fail, there are even more 🤖).

Pending:

- ☒ Call `setAudioAllowed` and `setVideoAllowed` depending on the permission change
- ☐ Test without HPB

How to test (scenario 1a)

- Setup the HPB
- Remove audio and video permissions by default in a conversation
- Start a call as a moderator
- In a private window, open the conversation as a guest
- Join the call with both audio and video (although both will be blocked once joined)
- In the original window, grant video permissions to the guest

Result with this pull request

In the private window a forced reconnection was triggered, and if the video is enabled it will be visible in the original window

Result without this pull request

In the private window a forced reconnection was triggered, but the participant is not able to establish the connection again

How to test (scenario 1b)

- Setup the HPB
- Remove audio and video permissions by default in a conversation
- Start a call as a moderator
- In a private window, open the conversation as a guest
- Join the call with audio but not video (although audio will be blocked once joined)
- In the original window, grant video permissions to the guest

Result with this pull request

In the private window nothing happened

Result without this pull request

In the private window a forced reconnection was triggered, but the participant is not able to establish the connection again

How to test (scenario 1c)

- Setup the HPB
- Remove video permissions by default in a conversation
- Start a call as a moderator
- In a private window, open the conversation as a guest
- Join the call with both audio and video (although the video will be blocked once joined)
- In the original window, grant video permissions to the guest

Result with this pull request

In the private window a forced reconnection was triggered, and if the video is enabled it will be visible in the original window

Result without this pull request

In the private window nothing happened

How to test (scenario 1d)

- Setup the HPB
- Remove video permissions by default in a conversation
- Start a call as a moderator
- In a private window, open the conversation as a guest
- Join the call with video but not audio (although the video will be blocked once joined)
- In the original window, grant video permissions to the guest

Result with this pull request

In the private window a forced reconnection was triggered, and if the video is enabled it will be visible in the original window

Result without this pull request

In the private window nothing happened

How to test (scenario 2)

- Setup the HPB
- Remove video permissions by default in a conversation
- Start a call as a moderator
- In a private window, open the conversation as a guest
- Join the call without audio nor video devices
- Open the device settings and select a camera

Result with this pull request

Nothing happens

Result without this pull request

In the private window a forced reconnection is triggered, although the connection is prevented by the HPB and never finishes

How to test (scenario 3a)

- Setup the HPB
- Enable audio and video permissions by default in a conversation
- Start a call as a moderator

- In a private window, open the conversation as a guest
- Join the call with both audio and video
- In the original window, revoke video permissions for the guest

Result with this pull request

In the private window a forced reconnection was triggered and video is no longer sent
(`OCA.Talk.SimpleWebRTC.webrtc.peers[0].pc.getSenders()` returns sender only for audio)

Result without this pull request

In the private window a forced reconnection is triggered, although the connection never finishes; *This track is already set on a sender* error is printed to browser console

How to test (scenario 3b)

- Setup the HPB
- Enable audio and video permissions by default in a conversation
- Start a call as a moderator
- In a private window, open the conversation as a guest
- Join the call with audio but not video
- In the original window, revoke video permissions for the guest

Result with this pull request

In the private window nothing happened

Result without this pull request

In the private window a forced reconnection is triggered, although the connection never finishes; *This track is already set on a sender* error is printed to browser console

How to test (scenario 3c)

- Setup the HPB
- Enable audio and video permissions by default in a conversation
- Start a call as a moderator
- In a private window, open the conversation as a guest
- Join the call with video but not audio
- In the original window, revoke video permissions for the guest

Result with this pull request

In the private window a forced reconnection was triggered and video is no longer sent
(OCA.Talk.SimpleWebRTC.webrtc.peers[0].pc.getSenders() is empty)

Result without this pull request

In the private window a forced reconnection is triggered, although the connection never finishes; *This track is already set on a sender* error is printed to browser console

How to test (scenario 4a)

- Setup the HPB
- Disable video permissions by default in a conversation
- Start a call as a moderator
- In a private window, open the conversation as a guest
- Join the call with both audio and video (although the video will be blocked once joined)
- In the original window, revoke audio permissions but grant video permissions for the guest

Result with this pull request

In the private window a forced reconnection was triggered, audio is no longer sent but video is

Result without this pull request

In the private window a forced reconnection is triggered, although the connection never finishes; *This track is already set on a sender* error is printed to browser console

How to test (scenario 4b)

- Setup the HPB
- Disable video permissions by default in a conversation
- Start a call as a moderator
- In a private window, open the conversation as a guest
- Join the call with audio but not video
- In the original window, revoke audio permissions but grant video permissions for the guest

Result with this pull request

In the private window a forced reconnection was triggered, audio is no longer sent

Result without this pull request

In the private window a forced reconnection is triggered, although the connection never finishes; *This track is already set on a sender* error is printed to browser console

How to test (scenario 4c)

- Setup the HPB
- Disable video permissions by default in a conversation
- Start a call as a moderator
- In a private window, open the conversation as a guest
- Join the call with video but not audio (although the video will be blocked once joined)
- In the original window, revoke audio permissions but grant video permissions for the guest

Result with this pull request

In the private window a forced reconnection was triggered, audio is no longer sent but video is

Result without this pull request

In the private window a forced reconnection is triggered, although the connection never finishes; *This track is already set on a sender* error is printed to browser console

How to test (scenario 5)

- Start a call with audio and video
- Open the device settings and select no microphone and no camera
- In a private window, join the call
- In the original window, select a microphone or camera

Result with this pull request

A forced reconnection is triggered in the original window and the original participant can be heard or seen in the private window

Result without this pull request

Nothing happens and the original participant can not be heard or seen in the private window

  danxuliu added 2. developing bug feature: frontend  feature: call  labels on Mar 21

  danxuliu added this to the  Next Major (24) milestone on Mar 21

danxuliu commented on Mar 21

Member

Author

/backport to stable23




  **backportbot-nextcloud** bot added the `backport-request` label on Mar 21



  **danxuliu** mentioned this pull request on Mar 29

Connection can not be established without camera permission #7048

 Closed

  Remove unused "constraints" parameters from events ...

97c8703

  **danxuliu** force-pushed the `fix-reconnections-on-single-media-permission-changes` branch from `50898c9` to `650baf0` 8 months ago

[Compare](#)

  **danxuliu** requested a review from **nickvergessen** 8 months ago

  **danxuliu** added `3. to review` and removed `2. developing` labels on Mar 31

  **danxuliu** marked this pull request as ready for review 8 months ago

nickvergessen approved these changes on Mar 31

[View changes](#)



nickvergessen left a comment

Member

Seems to work in general and fix the issues mentioned

Ivansss commented on Mar 31

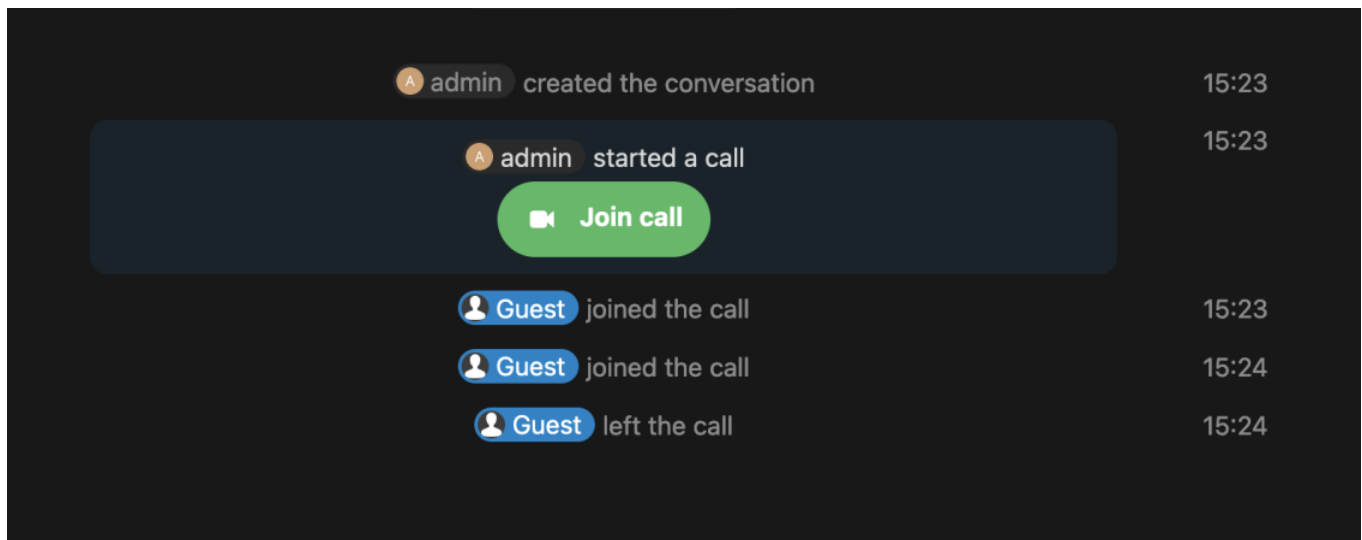
Member

Didn't work for me.

Test I did:

- Create a conversation and set restricted permissions
- Start the call with moderator
- Join with as a guest
- Give microphone permissions to everyone

- Guest did not rejoin the call



nickvergessen commented on Mar 31

Member

That was without HPB, might be related

danxuliu commented on Mar 31

Member

Author











Didn't work for me.

I have tested those steps with and without HPB and in both cases it worked as expected.

While working on this pull request I noticed that, sometimes, a guest failed to connect again after a forced reconnection. Apparently it only happened with guests, but I checked and it also happened before this pull request; I am not sure if I saw it only without HPB or also with HPB. I was not able to find yet why it happens, though, but it is very likely that your issue is that one, and therefore unrelated to the changes here.

Independently of that I added a last fixup to add back some code that I was too eager to remove (the event handler still needs to be executed in case of an error to remove the event handler for the successful start).

 danxuliu added 11 commits 8 months ago

-   Add unit tests for MediaDevicesSource ... ab5b6c9
-   Generate actual constraints from the available tracks ... 8665c32
-   Replace constraints when starting the node with "setXXXAllowed" methods ... ea71724
-   Update tracks based on changes in the allowed media ... 0c52760
-   Expose methods to allow or disallow media ... c91ebaa

- Add getters to check if media is allowed or disallowed ... a7a9e83
- Fix reconnections on single media permission changes ... 0cc75c5
- Disable media when disallowed ... c39e3a0
- Update call flags if needed after joining a call ... 41c9186
- Fix forced reconnections when replacing tracks ... 82236e6
- Remove no longer used "startedWithMedia" variable ... b511244

danxuliu force-pushed the `fix-reconnections-on-single-media-permission-changes` branch from `495440e` to `b511244` 8 months ago

[Compare](#)

nickvergessen merged commit `a6f26b2` into `master` on Apr 4
14 checks passed

[View details](#)

nickvergessen deleted the `fix-reconnections-on-single-media-permission-changes` branch
8 months ago

backportbot-nextcloud bot mentioned this pull request on Apr 4

[stable23] Fix reconnections on single media permission changes #7092

Merged

backportbot-nextcloud bot removed the `backport-request` label on Apr 4

Reviewers

nickvergessen



Assignees

No one assigned

Labels

3. to review bug feature: call feature: frontend

Projects

None yet

Milestone

v14.0.0-beta.1

Development

Successfully merging this pull request may close these issues.

- ✔ Connection can not be established without camera permission
-

3 participants

