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To: mchehab@kernel.org
Cc: Hyunwoo Kim <imv4bel@gmail.com>,
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Subject: [PATCH 4/4] media: ttusb-dec: Fix memory leak in ttusb_dec_exit_dvb()
Date: Tue, 15 Nov 2022 05:18:22 -0800 [thread overview]
Message-ID: <20221115131822.6640-5-imv4bel@gmail.com> (raw)
In-Reply-To: <20221115131822.6640-1-imv4bel@gmail.com>

From: Hyunwoo Kim <imv4bel@gmail.com>

Since dvb_frontend_detach() is not called in ttusb_dec_exit_dvb(),
which is called when the device is disconnected, dvb_frontend_free()
is not finally called.

This causes a memory leak just by repeatedly plugging and
unplugging the device.

Fix this issue by adding dvb_frontend_detach() to ttusb_dec_exit_dvb().

Signed-off-by: Hyunwoo Kim <imv4bel@gmail.com>

```
---
drivers/media/usb/ttusb-dec/ttusb_dec.c | 3 +--
1 file changed, 1 insertion(+), 2 deletions(-)

diff --git a/drivers/media/usb/ttusb-dec/ttusb_dec.c b/drivers/media/usb/ttusb-dec/ttusb_dec.c
index 38822cedd93a..c4474d4c44e2 100644
--- a/drivers/media/usb/ttusb-dec/ttusb_dec.c
+++ b/drivers/media/usb/ttusb-dec/ttusb_dec.c
@@ -1544,8 +1544,7 @@ static void ttusb_dec_exit_dvb(struct ttusb_dec *dec)
     dvb_dmx_release(&dec->demux);
     if (dec->fe) {
         dvb_unregister_frontend(dec->fe);
-        if (dec->fe->ops.release)
-            dec->fe->ops.release(dec->fe);
+        dvb_frontend_detach(dec->fe);
     }
     dvb_unregister_adapter(&dec->adapter);
 }
--
2.25.1
```

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2022-11-15 13:18 [PATCH 0/4] Fix multiple race condition vulnerabilities in dvb-core and device driver imv4bel
2022-11-15 13:18 ` [PATCH 1/4] media: dvb-core: Fix use-after-free due to race condition occurring in dvb_frontend imv4bel
2022-11-15 13:18 ` [PATCH 2/4] media: dvb-core: Fix use-after-free due to race condition occurring in dvb_net imv4bel
2022-11-15 13:18 ` [PATCH 3/4] media: dvb-core: Fix use-after-free due to race condition occurring in dvb_register_device() imv4bel
2022-11-17 4:16 ` Dan Carpenter
2022-11-15 13:18 ` **imv4bel [this message]**

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https://en.wikipedia.org/wiki/Posting_style#Interleaved_style

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```
git send-email \
  --in-reply-to=20221115131822.6640-5-imv4bel@gmail.com \
  --to=imv4bel@gmail.com \
  --cc=cai.huqing@linux.dev \
  --cc=kernel@tuxforce.de \
  --cc=linux-media@vger.kernel.org \
  --cc=linux-usb@vger.kernel.org \
  --cc=mchehab@kernel.org \
  --cc=tiwai@suse.de \
  /path/to/YOUR_REPLY
```

<https://kernel.org/pub/software/scm/git/docs/git-send-email.html>

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as well as URLs for NNTP newsgroup(s).