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commit [1dd27541aa2b95bde71bddd43d73f9c16d73272c](#) (patch)
tree [cf0d0fdcac30653240b5bf069cc7dab0e9ff3239](#)
parent [992e966caf57e00855edbd79f19d911809732a69](#) (diff)
download [linux-1dd27541aa2b95bde71bddd43d73f9c16d73272c.tar.gz](#)

diff options

context:
space:
mode:

dmaengine: ti: k3-udma-glue: fix memory leak when register device fail

[Upstream commit [ac2b9f34f02052709aea7b34bb2a165e1853eb41](#)]

If device_register() fails, it should call put_device() to give up reference, the name allocated in dev_set_name() can be freed in callback function kobject_cleanup().

Fixes: [5b65781d06ea](#) ("dmaengine: ti: k3-udma-glue: Add support for K3 PKTDMA")
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Diffstat

```
-rw-r--r-- drivers/dma/ti/k3-udma-glue.c 3
```

1 files changed, 3 insertions, 0 deletions

diff --git a/drivers/dma/ti/k3-udma-glue.c b/drivers/dma/ti/k3-udma-glue.c

index 4fdd9f06b72358..4f1aeb81e9c7f2 100644

--- a/drivers/dma/ti/k3-udma-glue.c

+++ b/drivers/dma/ti/k3-udma-glue.c

```
@@ -299,6 +299,7 @@ struct k3_udma_glue_tx_channel *k3_udma_glue_request_tx_chn(struct device *dev,  
    ret = device_register(&tx_chn->common.chan_dev);  
    if (ret) {  
        dev_err(dev, "Channel Device registration failed %d\n", ret);  
+        put_device(&tx_chn->common.chan_dev);  
        tx_chn->common.chan_dev.parent = NULL;  
        goto err;  
    }  
@@ -917,6 +918,7 @@ k3_udma_glue_request_rx_chn_priv(struct device *dev, const char *name,  
    ret = device_register(&rx_chn->common.chan_dev);  
    if (ret) {  
        dev_err(dev, "Channel Device registration failed %d\n", ret);  
+        put_device(&rx_chn->common.chan_dev);  
        rx_chn->common.chan_dev.parent = NULL;  
        goto err;  
    }  
@@ -1048,6 +1050,7 @@ k3_udma_glue_request_remote_rx_chn(struct device *dev, const char *name,  
    ret = device_register(&rx_chn->common.chan_dev);  
    if (ret) {  
        dev_err(dev, "Channel Device registration failed %d\n", ret);  
+        put_device(&rx_chn->common.chan_dev);
```

```
rx_chn->common.chan_dev.parent = NULL;  
goto err;
```

```
}
```