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commit 3ebac7cf0a184a8102821a7a00203f02bebda83c (patch)  
tree cc418878ad818c8b539f01f480939441e018b6a3  
parent d751c89df8024899eb9e6c320f9745baee5240d2 (diff)  
download [linux-3ebac7cf0a184a8102821a7a00203f02bebda83c.tar.gz](#)

**diff options**

context: 3  
space: include  
mode: unified

**net/smc: fix NULL sndbuf\_desc in smc\_cdc\_tx\_handler()**

[ Upstream commit 22a825c541d775c1dbe7b2402786025acad6727b ]

When performing a stress test on SMC-R by rmmmod mlx5\_ib driver during the wrk/nginx test, we found that there is a probability of triggering a panic while terminating all link groups.

This issue dues to the race between smc\_smcr\_terminate\_all() and smc\_buf\_create().

```
smc_smcr_terminate_all

smc_buf_create
/* init */
conn->sndbuf_desc = NULL;
...

    __smc_lgr_terminate
        smc_conn_kill
            smc_close_abort
                smc_cdc_get_slot_and_msg_send

    __softirqentry_text_start
        smc_wr_tx_process_cqe
            smc_cdc_tx_handler
                READ(conn->sndbuf_desc->len);
                /* panic dues to NULL sndbuf_desc */

conn->sndbuf_desc = xxx;
```

This patch tries to fix the issue by always to check the sndbuf\_desc before send any cdc msg, to make sure that no null pointer is seen during cqe processing.

Fixes: 0b29ec643613 ("net/smc: immediate termination for SMCR link groups")

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Link: <https://lore.kernel.org/r/1678263432-17329-1-git-send-email-alibuda@linux.alibaba.com>

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## Diffstat

```
-rw-r--r-- net-smc/smc_cdc.c 3
```

1 files changed, 3 insertions, 0 deletions

```
diff --git a/net/smc/smc_cdc.c b/net/smc/smc_cdc.c
index 53f63bfbaf5f92..89105e95b4523f 100644
--- a/net/smc/smc_cdc.c
+++ b/net/smc/smc_cdc.c
@@ -114,6 +114,9 @@ int smc_cdc_msg_send(struct smc_connection *conn,
    union smc_host_cursor cfed;
    int rc;

+   if (unlikely(!READ_ONCE(conn->sndbuf_desc)))
+       return -ENOBUFS;
+
    smc_cdc_add_pending_send(conn, pend);

    conn->tx_cdc_seq++;
```

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