



I think this issue starts from the `nfa_hci_sys_disable` function in [https://android.googlesource.com/platform/system/nfc/+refs/heads/master/src/nfa/nfa\\_hci/nfa\\_hci\\_main.cc#664](https://android.googlesource.com/platform/system/nfc/+refs/heads/master/src/nfa/nfa_hci/nfa_hci_main.cc#664).

```
static void nfa_hci_sys_disable(void) {
    tNFA_HCI_EVT_DATA evt_data;
    nfa_sys_stop_timer(&nfa_hci_cb.timer);
    if (nfa_hci_cb.conn_id) {
        if (nfa_sys_is_graceful_disable()) {
            /* Tell all applications stack is down */
            if (NFC_GetNCIVersion() == NCI_VERSION_1_0) {
                nfa_hciu_send_to_all_apps(NFA_HCI_EXIT_EVT, &evt_data);
                NFC_ConnClose(nfa_hci_cb.conn_id);
                return;
            }
        }
        nfa_hci_cb.conn_id = 0;
    }
    nfa_hci_cb.hci_state = NFA_HCI_STATE_DISABLED;
    /* deregister message handler on NFA SYS */
    nfa_sys_deregister(NFA_ID_HCI);
}
```

It sends out an event with an uninitialized `tNFA_HCI_EVT_DATA` which contains arbitrary data from the stack. When `nfaHciCallback` then receives this event and tries to create a vector from

```
uint8_t* buff = eventData->rcvd_evt.p_evt_buf;
uint32_t buffLength = eventData->rcvd_evt.evt_len;
std::vector<uint8_t> event_buff(buff, buff + buffLength);
```



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We have shared this with our product and engineering team and will update this issue with more information as it becomes available.