

4G T4000 SCTP Link Instable

Equipment: T4000

Version: BBU V100R009C00SP058

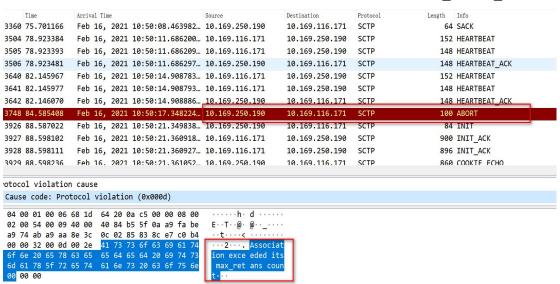
1. Issue Description

After add permanet route in script "/appfs/bbu/rootfs/bts/scripts/rootfs_start.sh" and reboot to valid the change. eNB shows S1 link interrupt alarm, and it keeps connect and disconnect, cell status also keeps changing between forbid and normal.

Soft reboot in webgui has same apperance.

2. Troubleshooting

Collect the tcpdump from eNB and see eNB shutdown the S1 link actively and sends "Abort", check the cause and see "Association exceeded its max retrans count".



Check the Sctp link parameter for timeout and retransmit times, it's small and need be adjusted.

Maximum Retransmission Timeout(millisecond)=500 Maximum Retransmission Times=3 Max Association Retransmits=2 Life cycle of Valid cookies=5000

3. Solution

Adjust the SCTP link parameter as below and S1 link is stable.



- SCTP Link

Config

- Neigh Station

Add Neigh Station Modify Neigh Station

- Transmission Management
 - X2 Config

Modify X2SCTP Parameter
List X2SCTP Parameter

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O&M #1

%%LST SCTP:;;%%

RETCODE = 0 The command was executed successfully.

List SCTP Link Parameter

Initial Value of Retransmission Timeout(millisecond) = 3000
Minimum Retransmission Timeout(millisecond) = 1000
Maximum Retransmission Timeout(millisecond) = 6000
Maximum Number of Initial Retransmissions = 8
Heartbeat Interval = 500
Maximum Retransmission Times = 10
Max Association Retransmits = 10
Life Cycle of Valid Cookies = 60000

(Number of results = 1)

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