Qualcomm needs the QXDM &IPACM log&TCP dumps & network device configuration information for data stall and T-put issue debugging.

Below are the log requirements for such kind of issues:

1. qxdm log with default log mask from boot up;

Note: if it is peak throughput test, data traffic from NR/LTE<->Andriod/Linux tethered clients, ADPL should be used to aviod low throughput, you need to configure ADPL per KBA-200305205640.

2. IPACM logs

2.1 systemd enabled platforms[SA415 ,SDx55 , SA515 onwards] -

Put device in selinux permissive mode
vi /etc/selinux/config
change enforcing --> permissive
vi /lib/systemd/system/ipacm.service
Insert the following in [Service] section of ipacm service file
StandardOutput=file:/data/ipacm_log.txt
Reboot the DUT for service file to take effect
Execute the test case & Pull the /data/ipacm_log.txt before device reboot

2.2 Non- systemd older platforms [sdx24, sdx20, 9x40(9640), 9x50 etc]:

killall -15 ipacm
ipacm>/data/ipacm_log.txt &
adb pull /data/ipacm_log.txt

3. output general A7 info in adb shell:

1.ifconfig

2.brctl show

3. route -n

4.brctl show

5.conntrack -L

6.conntrack -E

7.ip n s

8.ip r s

9.arp

10.iptables -t filter -L -n -v

11. iptables -t mangle -L -n -v

12. iptables -t nat -L -n -v

4.tcp dump and pc wireshark

tcp dump of each network devices which are in output of ifconfig

PC wireshark

5.IPA statistics:

5.1 Common Logs required for both MSM/MDM
Common logs for v4/v6 for all platforms:
cat /sys/kernel/debug/ipa/stats (couple of times during UL data transfer only)
cat /sys/kernel/debug/ipa/hdr
cat /sys/kernel/debug/ipa/msg
cat /sys/kernel/debug/ipa/status_stats (during UL data transfer only)

5.2 V4 data transfer:
cat /sys/kernel/debug/ipa/ip4_flt
cat /sys/kernel/debug/ipa/ip4_rt
cat /sys/kernel/debug/ipa/ip4_nat

5.3 V6 data transfer:
cat /sys/kernel/debug/ipa/ip6_flt
cat /sys/kernel/debug/ipa/ip6_rt

Please note points 5.1,5.2,5.3 cat logs will be directed to dmesg . After above steps 1,2,3
dmesg > /data/dmesg_log.txt [Do adb pull of dmesg_log.txt file and share with us]

6. Capturing ipc_logs for ipa driver:

cat /sys/kernel/debug/ipc_logging/ipa/log > /data/ipa_ipc_logs.txt

7. Crash dump with valid Apps and modem symbol (At the end but during data transfer)

8. provide mobileap_cfg.xml and IPACM_cfg.xml configuration files

9.check A7 processor CPU load with command "top" in adb shell. Need to query the CPU load before performing test and duing the test procedure