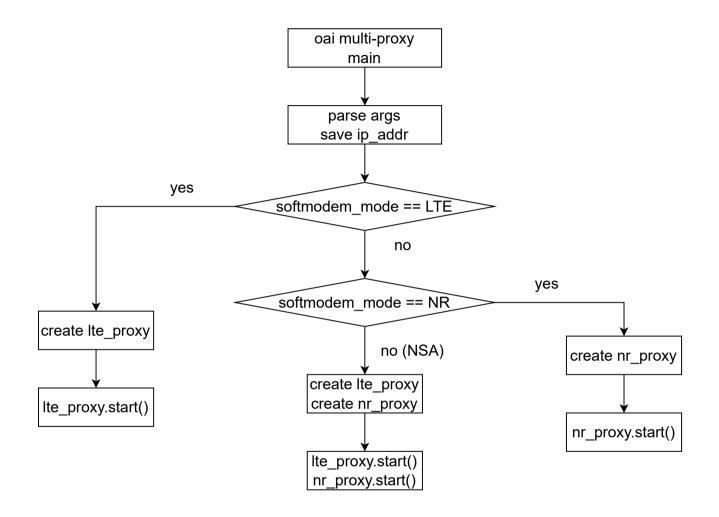
## **OAI** multi-proxy



## LTE mode softmodem\_mode == LTE set vnf, pnf, ip+port create udp fd per ue addr, port create Ite\_proxy configure put it in array ue\_rx\_socket[], ue\_tx\_socket[] set multi UE port create array msgs\_from\_ue[] queue msg → oai\_subframe\_init ├ vnf (eNB side) one queue per UE send config ip, port for p5 (sctp), p7 (udp) Ite\_proxy.start() configure\_nfapi\_pnf config callback func handle p4 p5 flow ( sctp\_recvmsg(pnf->p5\_sock, param req-res, config req-res ...) \* header\_buffer nfapi\_p5\_message\_header\_unpack create pnf\_start\_thread nfapi\_pnf\_start() //get message\_size // communication with vnf (eNB side) →pnf\_read\_dispatch\_message() →pnf\_message\_pump() // handle p4, p5 msg //while 1 sctp\_recvmsg(pnf->p5\_sock, read\_buffer, message\_size pnf\_handle\_p5\_message( read\_buffer, message\_size) create thread oai\_subframe\_task, // communication with vnf (eNB side) and UE side // handle p7 msg research is in progress ... create thread receive\_message\_from\_ue, recvfrom(ue\_rx\_socket[ue\_idx] one thread per UE //while 1 // rx subframe P7 from UE nfapi\_p7\_message\_header\_unpack nfapi\_get\_sfnsf // get msg\_id oai\_subframe\_handle\_msg\_from\_ue // put msg to queue msgs\_from\_ue[ue\_id]

