WORKFLOW - 16-07-2020 (New Interns)

1. Team Assignment

Members in each sublayer

1.1. RRC
1.2. SDAP
1.3. PDCP
1.4. RLC
1.5. MAC

1. RRC

a. Overview Presentation of the layer
b. Introduction to .ASN1
c. Protocol data units, formats and parameters (ASN.1)
    i. RRC messages
d. System Information Acquisition
    i. MIB, SIB1
    ii. SIB 2 - 9
e. RRC connection establishment
f. RRC reconfiguration
    i. Cell group configuration
    ii. Radio Bearer configuration
g. Timers

2. SDAP

a. Figure out the QoS flow to DRB mapping rules
    i. Default mapping
    ii. Configured mapping
    iii. Reflective mapping

* RLC and PDCP work is already assigned to people.

3. MAC

a. List of configuration Parameters

b. Understanding UE MAC architecture, elements present
c. Multiplexing and assembly
    i. Logical Channel prioritization
d. DL-SCH data transfer
e. UL-SCH data transfer
f. Protocol Data Units, formats and parameters
    i. MAC PDU
    ii. MAC CE

DPDK (Data plane development kit)

It's a library for faster packet processing. Ultimate objective is to convert the C code we write into dpdk to achieve low latency.

1.1. Getting Started

http://doc.dpdk.org/guides/linux_gsg/
http://doc.dpdk.org/guides/prog_guide/index.html - Programmer's guide
http://doc.dpdk.org/api/ - API guide

1.2. Core components

1. Rte_eal + libc
2. Rte_malloc
3. Rte_timer
4. Rte_mempool
5. Rte_membuf
6. Rte_ring
7. rte_debug

1.3. Tasks

1. Proper installation guide
2. A running example

Interfaces

1. NG
2. FAPI
3. F1 and E1