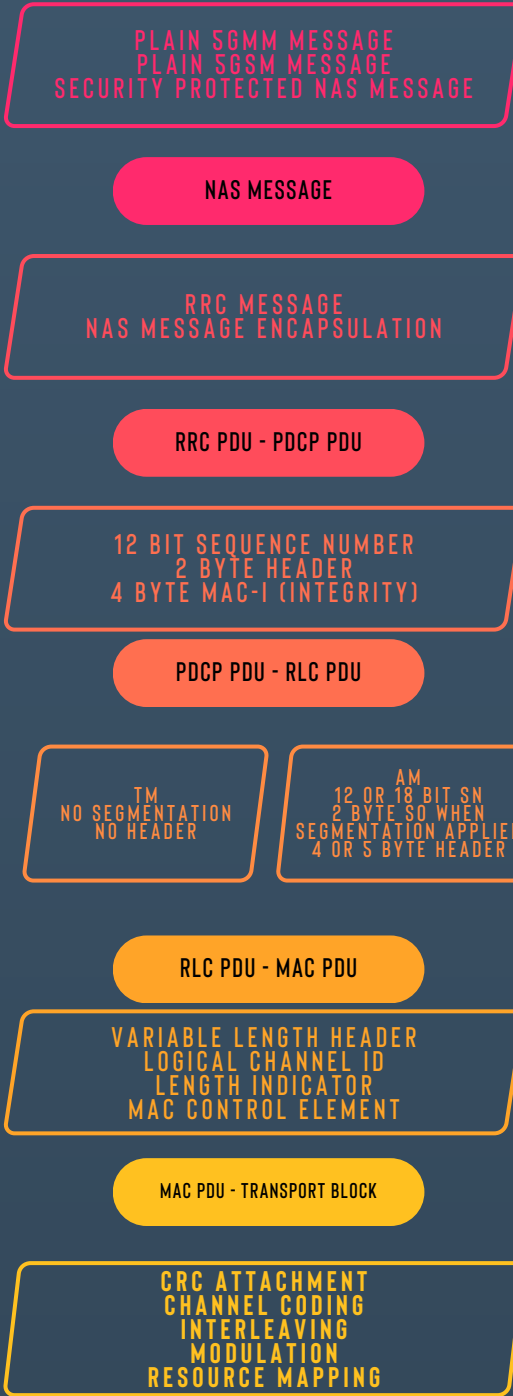
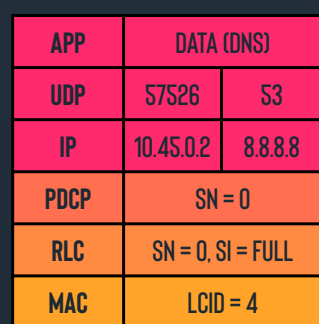


5G NR CONTROL PLANE ARCHITECTURE



MIB			RLC TM	BCCH	BCCH	PBCH
SIB1			RLC TM	BCCH	DL SCH	PBCH
MSG1			RLC TM		RACH	PRACH
MSG2			RLC TM		DL SCH	PDSCH
MSG3 - RRC SETUP REQUEST		SRB0	RLC TM	CCCH	UL SCH	PUSCH
MSG4			RLC TM	CCCH	DL SCH	PDSCH
RRC SETUP		SRB0	RLC TM	CCCH	DL SCH	PDSCH
RRC SETUP REGISTRATION REQ		SRB1	RLC AM	DCCH	UL SCH	PUSCH
IDENTITY REQUEST		SRB1	RLC AM	DCCH	DL SCH	PDSCH
IDENTITY RESPONSE		SRB1	RLC AM	DCCH	UL SCH	PUSCH
AUTHENTICATION REQ		SRB1	RLC AM	DCCH	DL SCH	PDSCH
AUTHENTICATION RESP		SRB1	RLC AM	DCCH	UL SCH	PUSCH
SECURITY MODE COMMAND		SRB1	RLC AM	DCCH	DL SCH	PDSCH
SECURITY MODE COMPLETE		SRB1	RLC AM	DCCH	UL SCH	PUSCH
SECURITY MODE COMMAND		SRB1	RLC AM	DCCH	DL SCH	PDSCH
SECURITY MODE COMPLETE		SRB1	RLC AM	DCCH	UL SCH	PUSCH
UE CAPABILITY ENQUIRY		SRB1	RLC AM	DCCH	DL SCH	PDSCH
UE CAPABILITY INFO		SRB1	RLC AM	DCCH	UL SCH	PUSCH
REGISTRATION ACCEPT		SRB1	RLC AM	DCCH	DL SCH	PDSCH
REGISTRATION COMPLETE PDV SESSION EST. REQUEST		SRB1	RLC AM	DCCH	UL SCH	PUSCH



APP	DATA (DNS)	
UDP	57526	53
IP	10.45.0.2	8.8.8.8
PDCP	SN = 0	
RLC	SN = 0, SI = FULL	
MAC	LCID = 4	

	APP	DATA (DNS)	
	UDP	57528	53
	IP	10.45.0.2	8.8.8.8
	POCP	SN = 0	
+	GTP-U	TEID = 1	
+	UDP	2152	2152
+	IP	127.0.10.12	127.0.0.88

APP	DATA (DNS)	
UDP	57526	53
IP	10.45.0.2	8.8.8.8
✗ PDCP	SN = 0	
✗ GTP-U	TEID = 1	
✗ UDP	2152	2152
✗ IP	127.0.10.12	127.0.0.88

APP	DATA (DNS)	
UDP	57526	53
IP	10.45.0.2	8.8.8
+	GTP-U TEID = 2068	
+	UDP	2152
+	IP	127.0.0.87

	APP	DATA (DNS)	
	UDP	57526	53
✗	IP	10.45.0.2	8.8.8.8
✗	OTP-U	TEID = 2068	
✗	UDP	2152	2152
✗	IP	127.0.0.87	127.0.0.7

	APP	DATA (DNS)	
	UDP	57526	53
+	IP	192.168.1.10	8.8.8.8

PDU SESSION ESTABLISHMENT REQUEST	
PDU SESSION ID	1
PDU SESSION TYPE	IPV4

UL NAS TRANSPORT	
PDU SESSION ID	1
REQUEST TYPE	INITIAL
ACCESS POINT NAME	APN

RRC RECONFIGURATION	
PDU SESSION	1
SDAP HEADER	ABSENT
DRB IDENTITY	1
PDCP SN SIZE	LEN18BITS
LOGICAL CHANNEL IDENTITY	4
RLC CONFIG	AM
RLC SN FIELD LENGTH	SIZE18

PDU SESSION ESTABLISHMENT ACCEPT	
PDU SESSION	1
ELECTED SSC MODE	1
SELECTED PDU SESSION TYPE	IPv4
QoS RULE IDENTIFIER (QFI)	1
IPv4 ADDRESS	10.45.0.2
SQI	9
ACCESS POINT NAME	APN

5G NR USER PLANE ARCHITECTURE