



deti

universidade de aveiro
departamento de eletrónica,
telecomunicações e informática

Comunicações Móveis



Complete 5G System

core + access

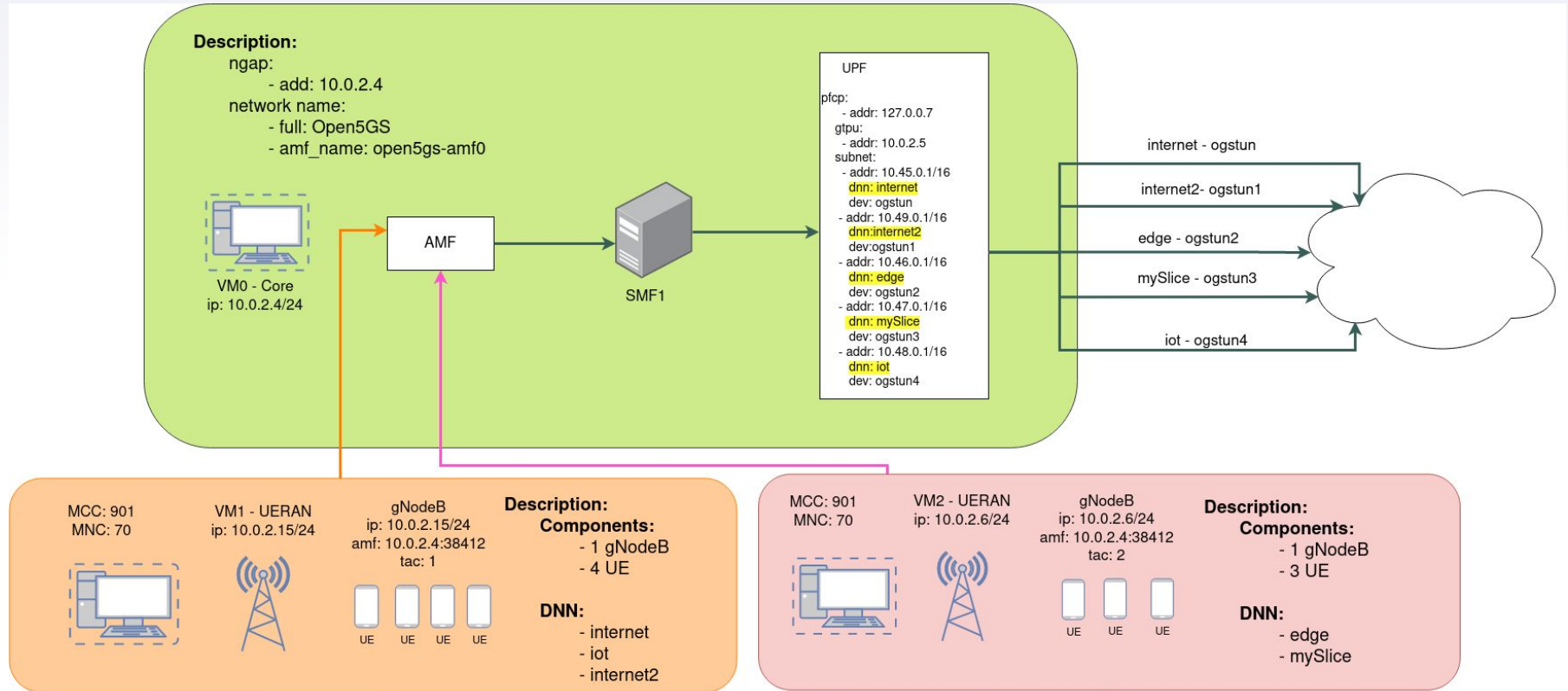


Work done by:

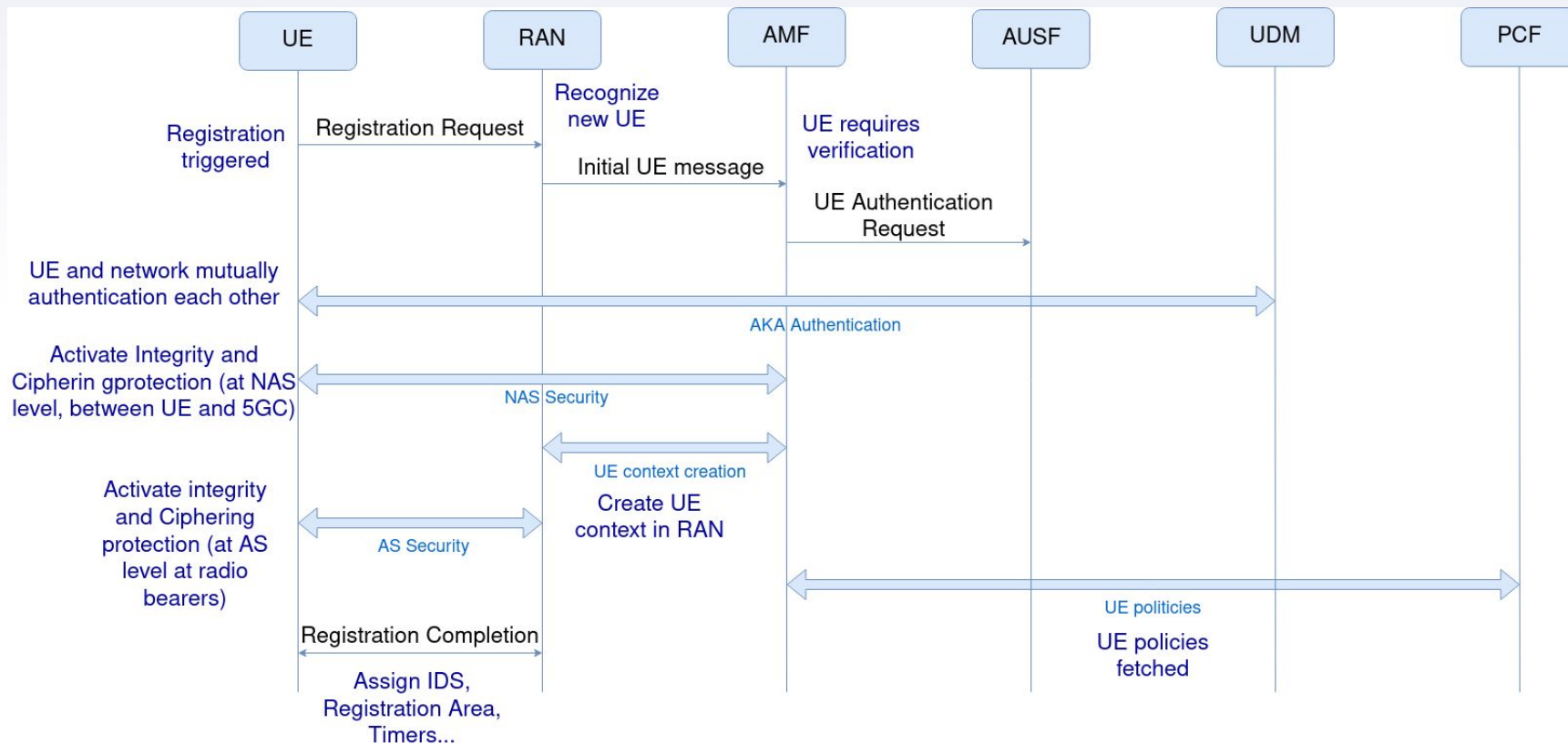
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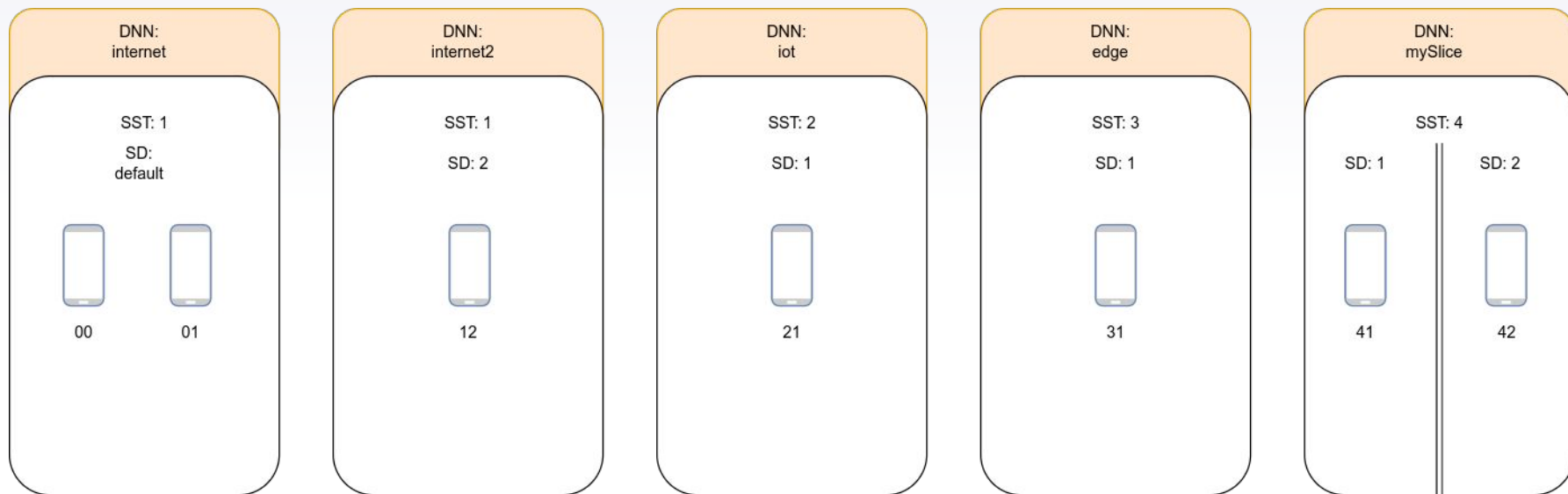
Architecture



UE Registration



Slicing



Iperf3 Tests

- ▶ 1 Gbps Session-AMBR Downlink and Session-AMBR Uplink:

Uplink - bandwidth (Mbits/seg)		
	UE 41	UE 42
	63,6	58,6
	56,8	59
	59,5	61,6
média	59,5	59

Downlink - bandwidth (Mbits/seg)		
	UE 41	UE 42
	51,9	53,1
	51,8	53,3
	50	51,3
média	51,8	53,1

- ▶ 1 Gbps Session-AMBR Downlink and 20 Mbps Session-AMBR Uplink:

Uplink - bandwidth (Mbits/seg)		
	UE 41	UE 42
	63,3	22,6
	56,9	23,4
	59,5	23,1
média	59,5	23,1

- ▶ 20 Mbps Session-AMBR Downlink and 1 Gbps Session-AMBR Uplink:

Downlink - bandwidth (Mbits/seg)		
	UE 41	UE 42
	52,2	22,5
	51,8	22,3
	50	22,9
média	51,8	22,5

Iperf3 Tests

- ▶ UE = 01
- ▶ 5QI = 65
- ▶ arp = 15

bandwidth (Mbits/seg)		
	Uplink	Downlink
	60,2	50,4
	61,2	51,2
	61,1	51,8
média	61,1	51,2

- ▶ UE= 00
- ▶ 5QI = 65
- ▶ arp = 1

bandwidth (Mbits/seg)		
	Uplink	Downlink
	56	50
	57,1	50
	59,6	50,7
média	57,1	50