

WHY

standards → specifications

IETF, 3GPP (UMTS, LTE, WiMAX)

OPEN!

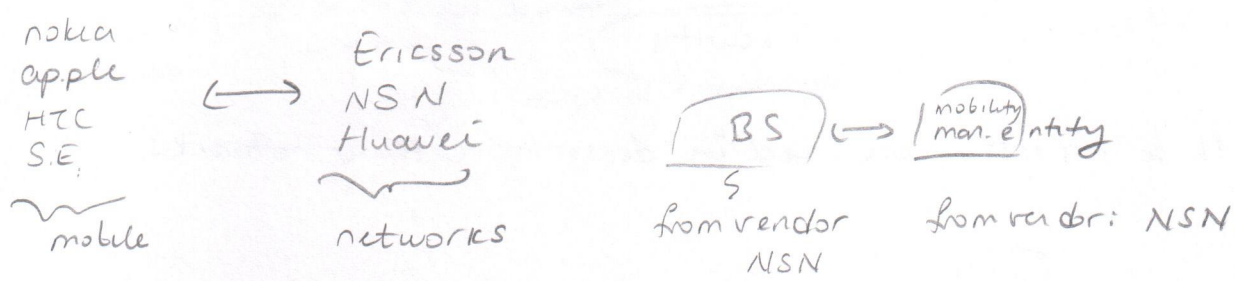
(mesela LTE specificationları açıktır, herkes erişebilir)

CLOSED:

have to be member of organization to download specs. mesela IEEE

compatibility

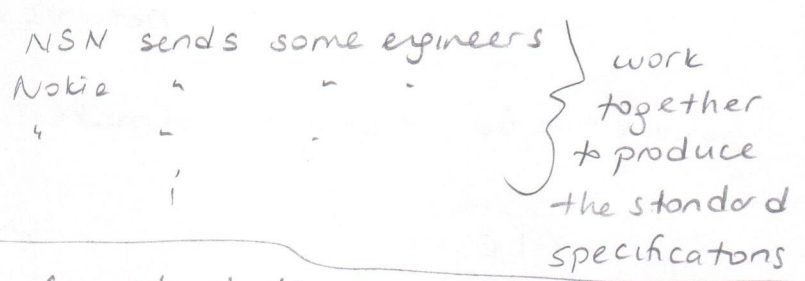
interoperability among equipment.



multiple vendors for equipments

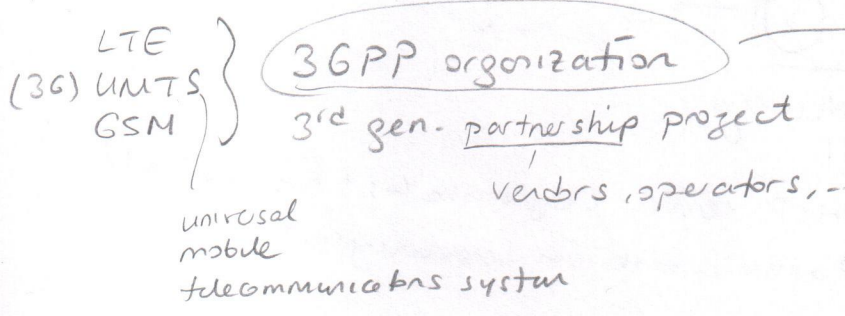
Cost ↓

sharing systems engineering



HOW

standards : Organization specifies standards



(türkiye'de kimse yok, Turkcell bile)

IETF ⇒ defines internet standards CIP, TCP, mobile IP, IKE, - (internet key exchange)

α individuals participating from mailing lists

a RFC: request for comments

IP has RFC 732, - - -

WHAT

are standards

systems engineering process!

example cellular system

customer requirements →

cost

high network availability

QoS for voice, video, ...

long battery life

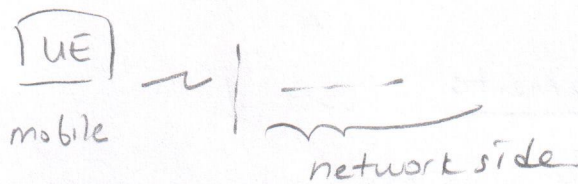
mobility in wide area (service continuity)

low delay (latency), jitter

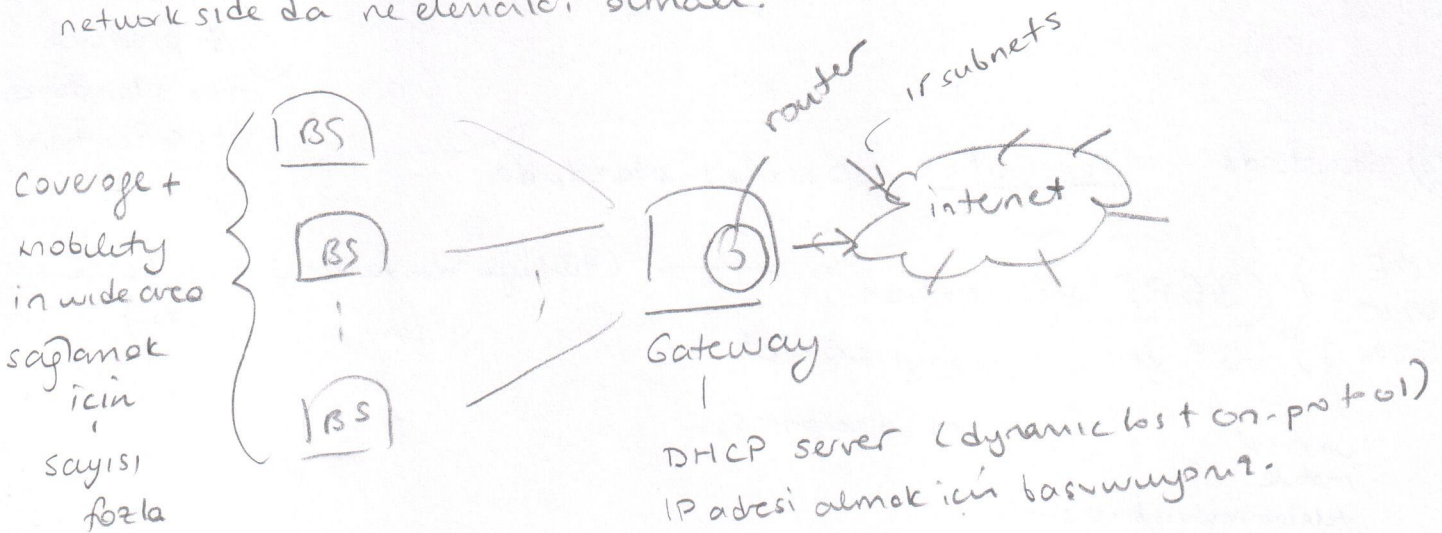
internet connectivity

security

how these requests are used in designing cellular networks



network side da ne elementler, simalar.



Bu elementler function element as, network element as organization by organization değişebilir.

network elements joined by interfaces also called reference points

highest level system description: network elements + ref points -

daha detaylı - message seq charts
 flow diagrams

state diagrams (daha çok protokol gıcıkleyecek kullandı)

Security in nepalun

DB: subscriber DB has info about customer's
server, voice, 1GB/month, security parameters --

in most cases, before getting IP address, connect to subs. DB!

