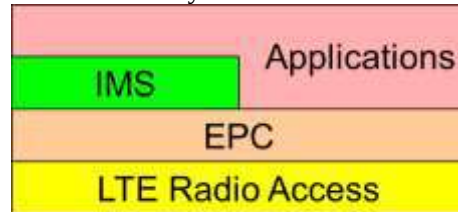


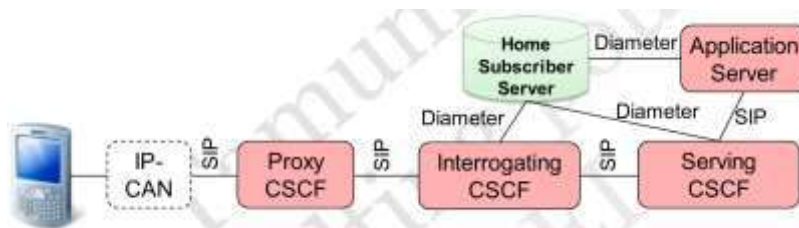
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Reseaux Mobiles: Quick Quiz 6 (LTE2)

1. Draw the SAE for LTE as a layered model



- a.
2. How is IP used in SAE ? As common network layer
3. What is EPC ? **Evolved Packet Core**
- a. Name the EPC control plane elements **MME PCRF HSS (IMS)**
- b. Name the EPC user plane elements **SGW PGW**
4. Describe how EPC routes packets to mobile users. The user obtains an IP address which maps onto an anchor and tunnel which lasts for the lifetime of the session.
5. The E-UTRAN Radio Access bearer (E-RAB) is established between what entities ?
- a. UE and SGW
- b. name two services supported by the E-RAB user data transport, header compression, ciphering, integrity...
- c. The E-RAB forms one component of the EPS bearer. What quantitative descriptor characterizes the QoS provided ? QCI
- d. Name some parameters given by this descriptor Priority, GBR/non GBR, packet delay, packet loss rate
6. Name two more SAE security functions:
- a. authentication of the UE
- b. user plane and control plane encryption
- c. integrity protection
- d. authentication of network by UE
- d-e. unsolicited communication protection
7. Draw the IMS Signalling architecture



8. Name 4 options for LTE backhaul
- a. DSL
- b. Optic fibre
- c. Microwave links
- d. PTP
- e. PTMP

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