75.43 Introducción a los Sistemas Distribuidos 95.60 Redes y Aplicaciones Distribuidas TA048 Redes

Tema: Capa Física Inalámbrica (II)

Desde 7.4 Cellular Internet Access hasta el final del Capítulo 7; Computer Networking: A Top-Down Approach. James Kurose and Keith Ross. Publisher: Pearson, Edition: 7th, 2016.

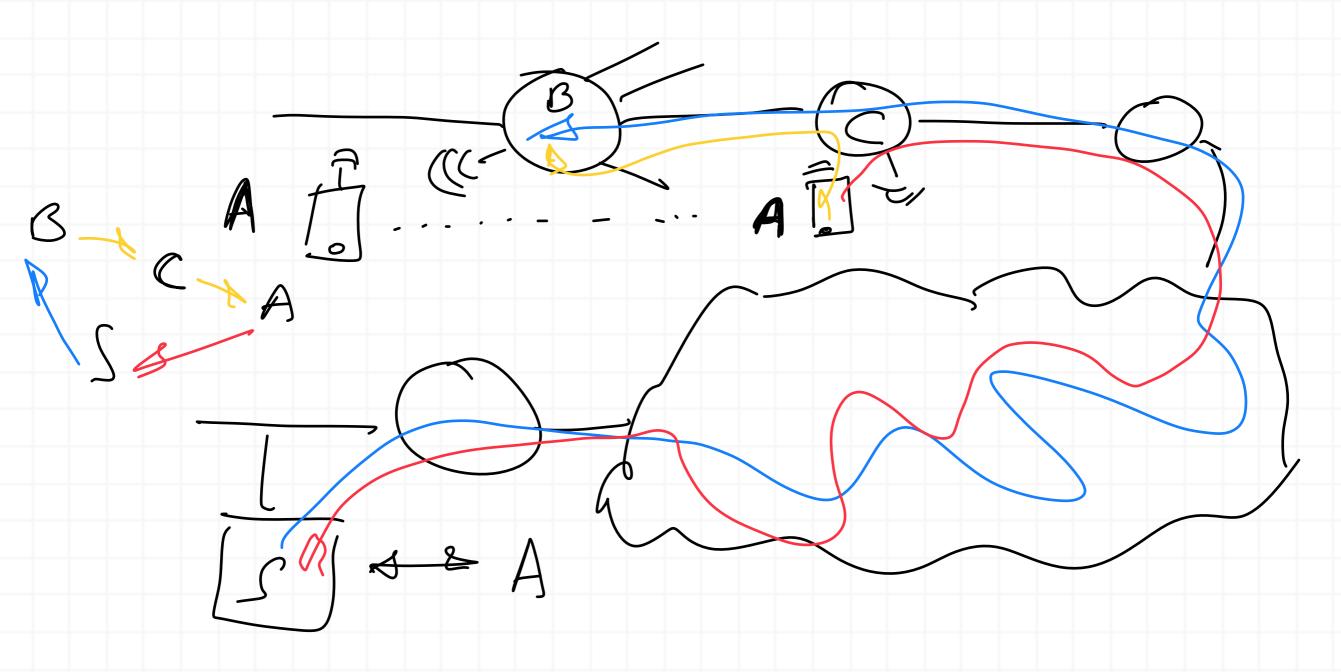
Dr. Ing. J. Ignacio Alvarez-Hamelin

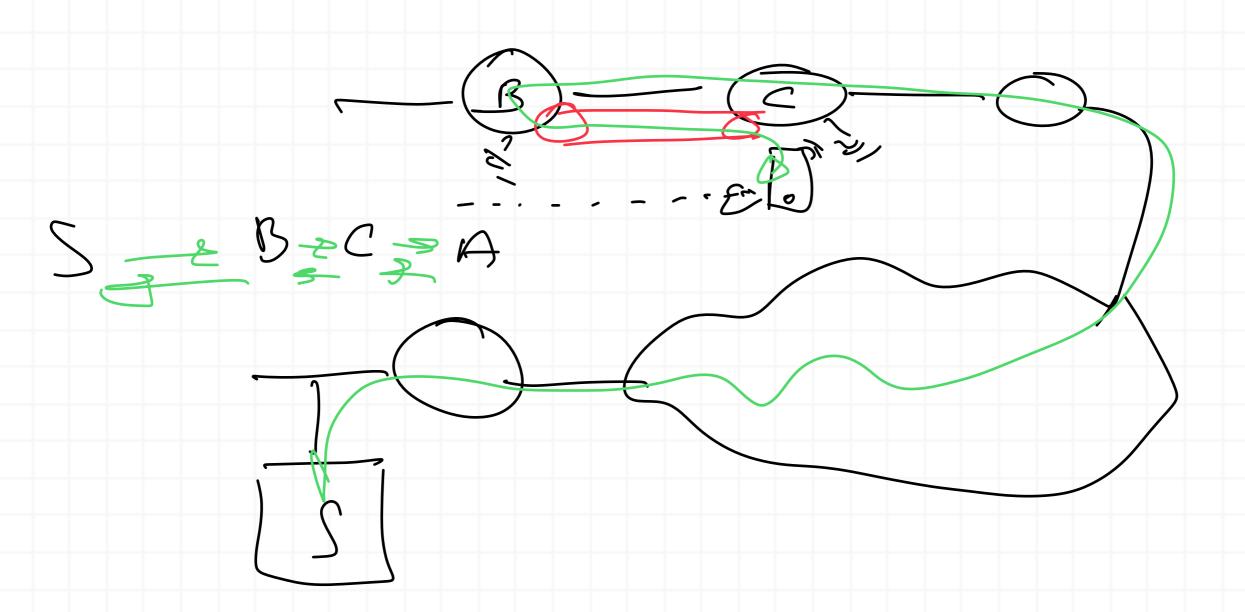
Clase de hoy

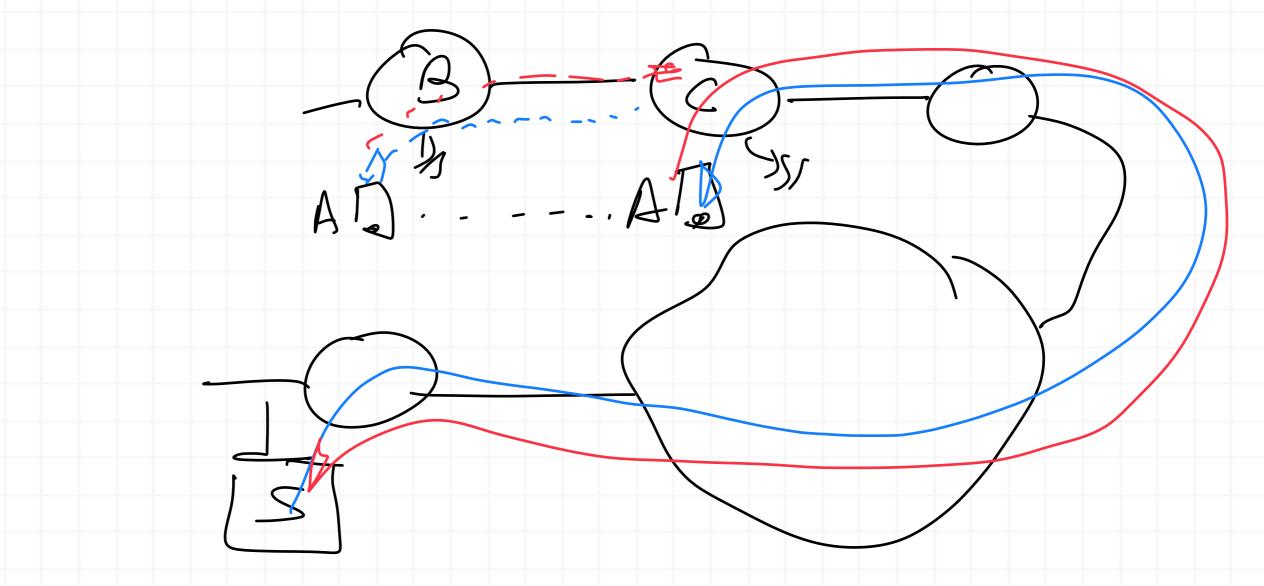
- Principios de gerenciamiento de la movilidad
- Mobile IPv4 & IPv6
- Movilidad en Redes Celulares
- Acceso a Internet por intermedio de Redes de Celulares

Principios de gerenciamiento de la movilidad

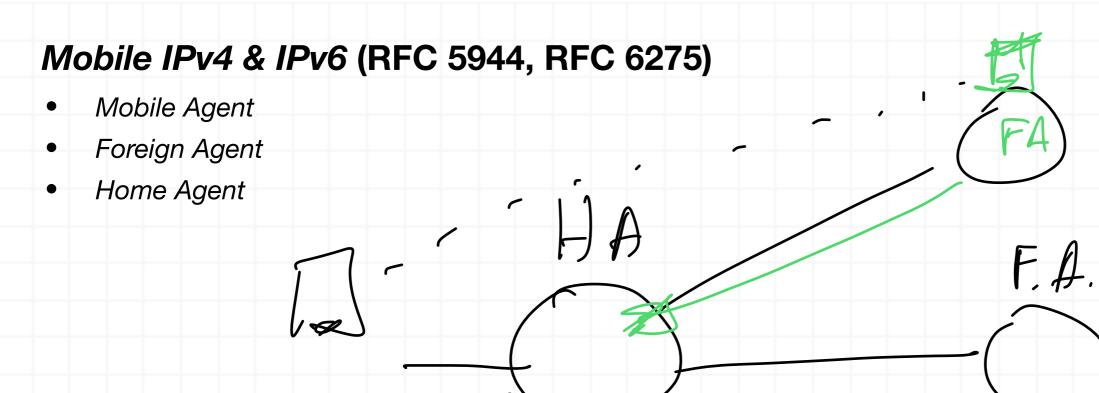
- ¿Es IP un protocolo adaptado a la movilidad?
- Direccionamiento
- Enrutamiento (Indirecto, Directo, transferencia)







Wi-Mzx



Mobile IPv4 & IPv6 (RFC 5944, RFC 6275)

- Mobile Agent
- Foreign Agent
- Home Agent

2) Datagram is intercepted by home agent and is tunneled to the care-of address.

+---+

3) Datagram is detunneled and delivered to the mobile node.

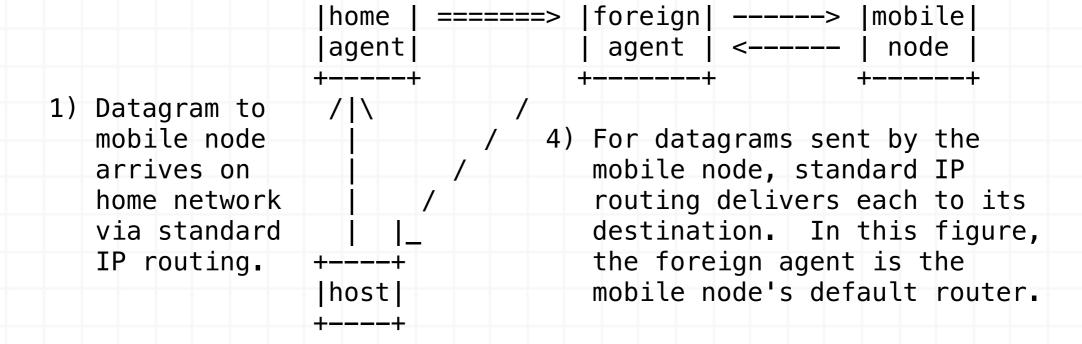
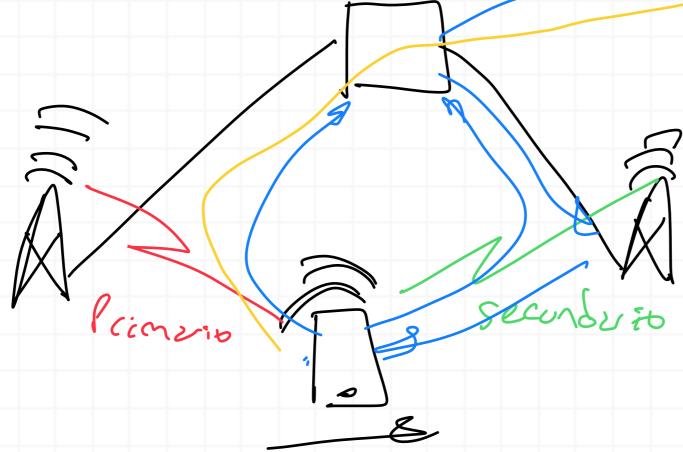


Figure 1: Operation of Mobile IPv4

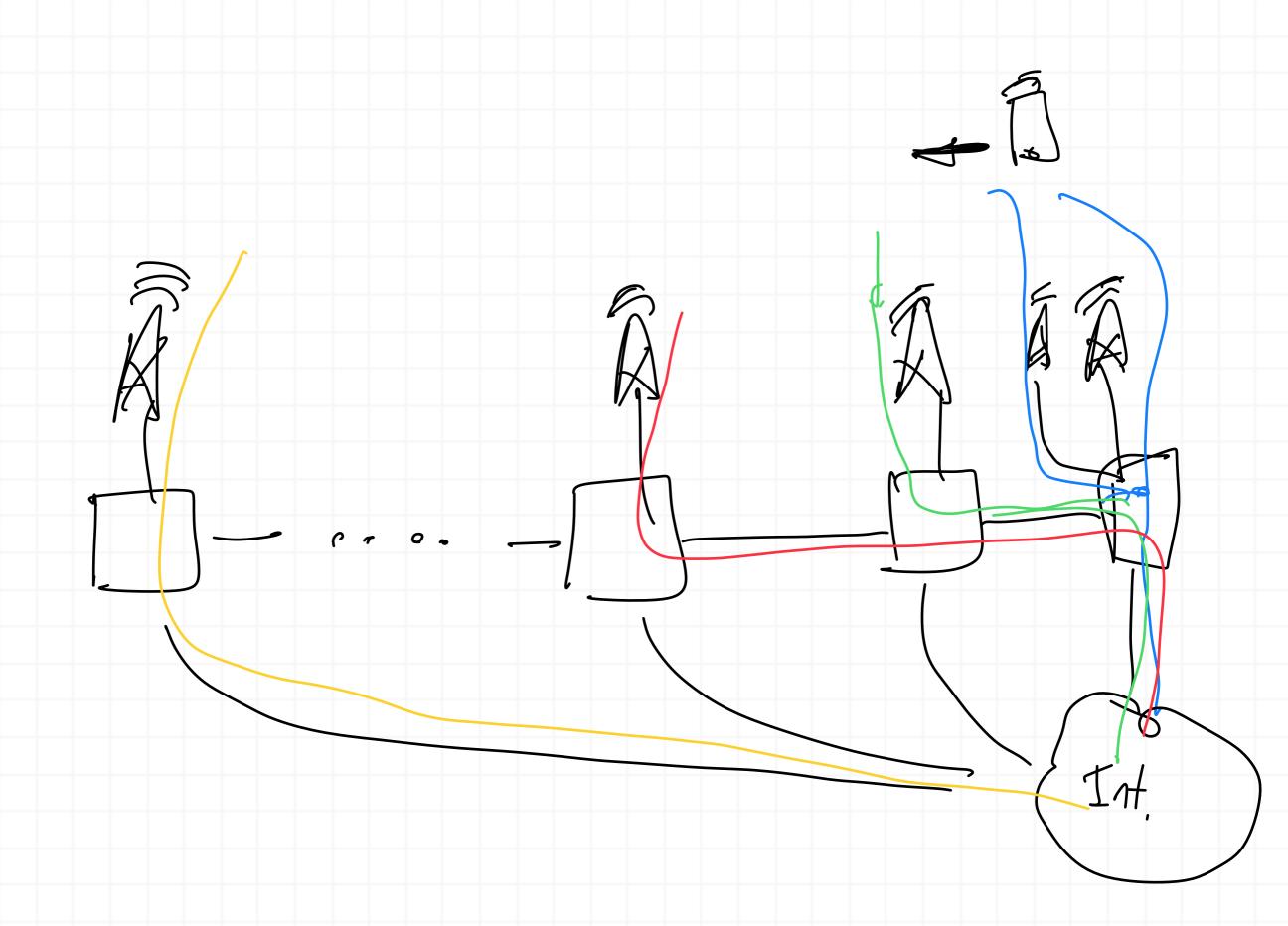
Movilidad en Redes Celulares

- Handoffs
- Rerouting



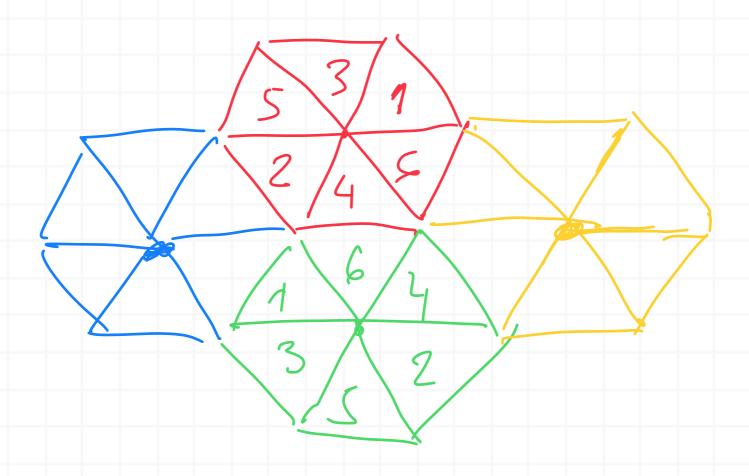


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Acceso a Internet por intermedio de Redes de Celulares

- Desde 1G hasta 5G
- Disposición geográfica
- Tecnologías



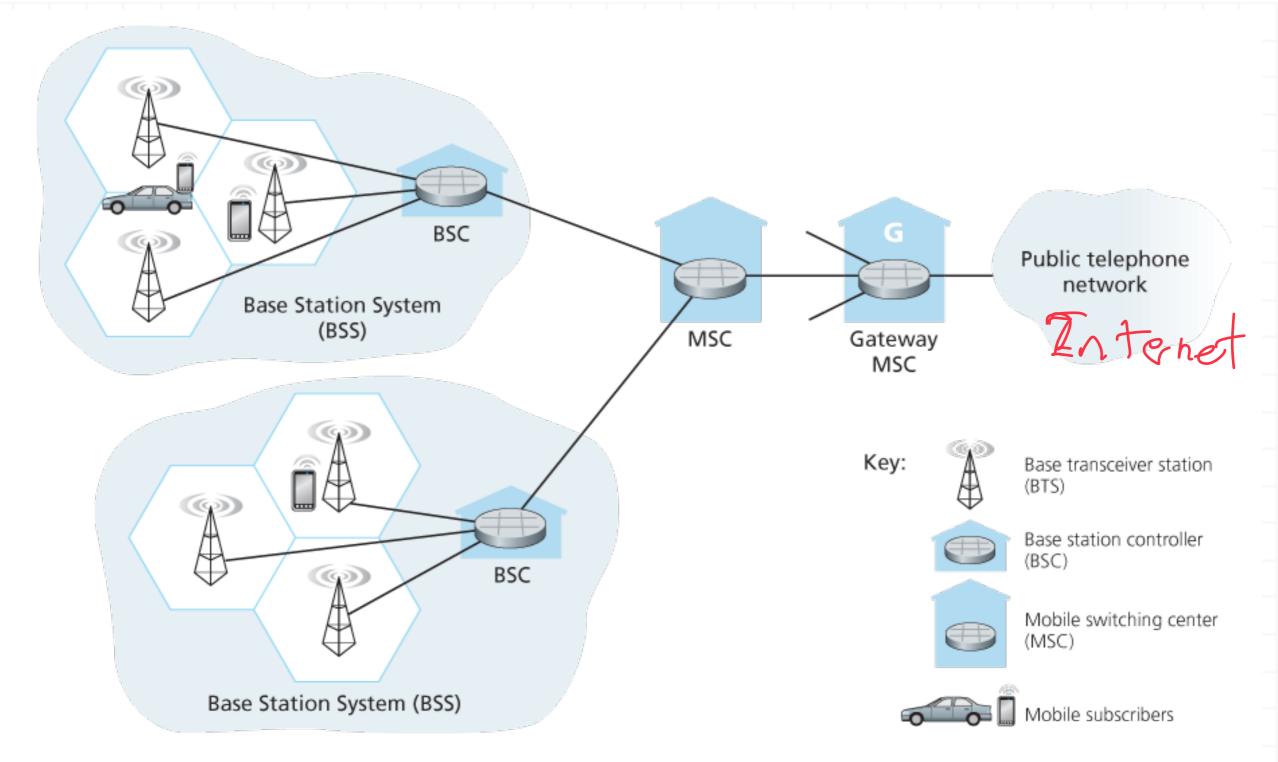


Figure 7.18 Components of the GSM 2G cellular network architecture

A Top-Down Approach with Access. James Kurose and Keith Ross. Publisher: Pearson, Edition: 7th, 2016.

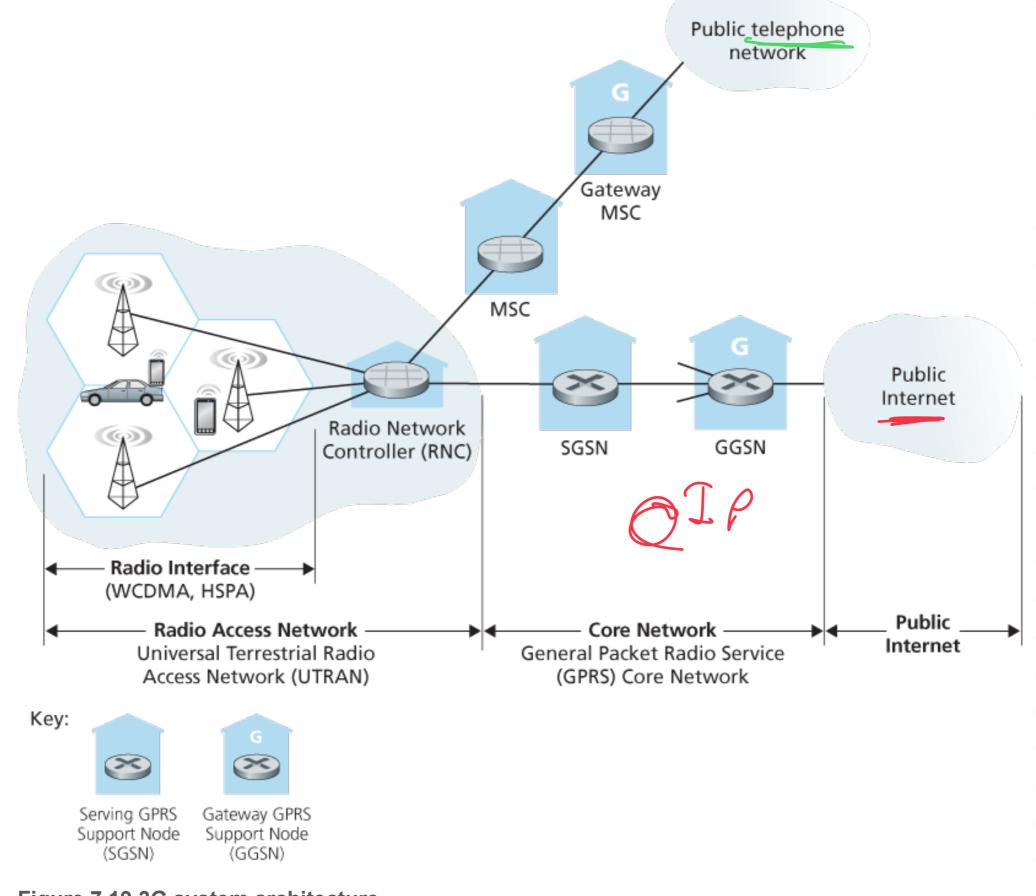
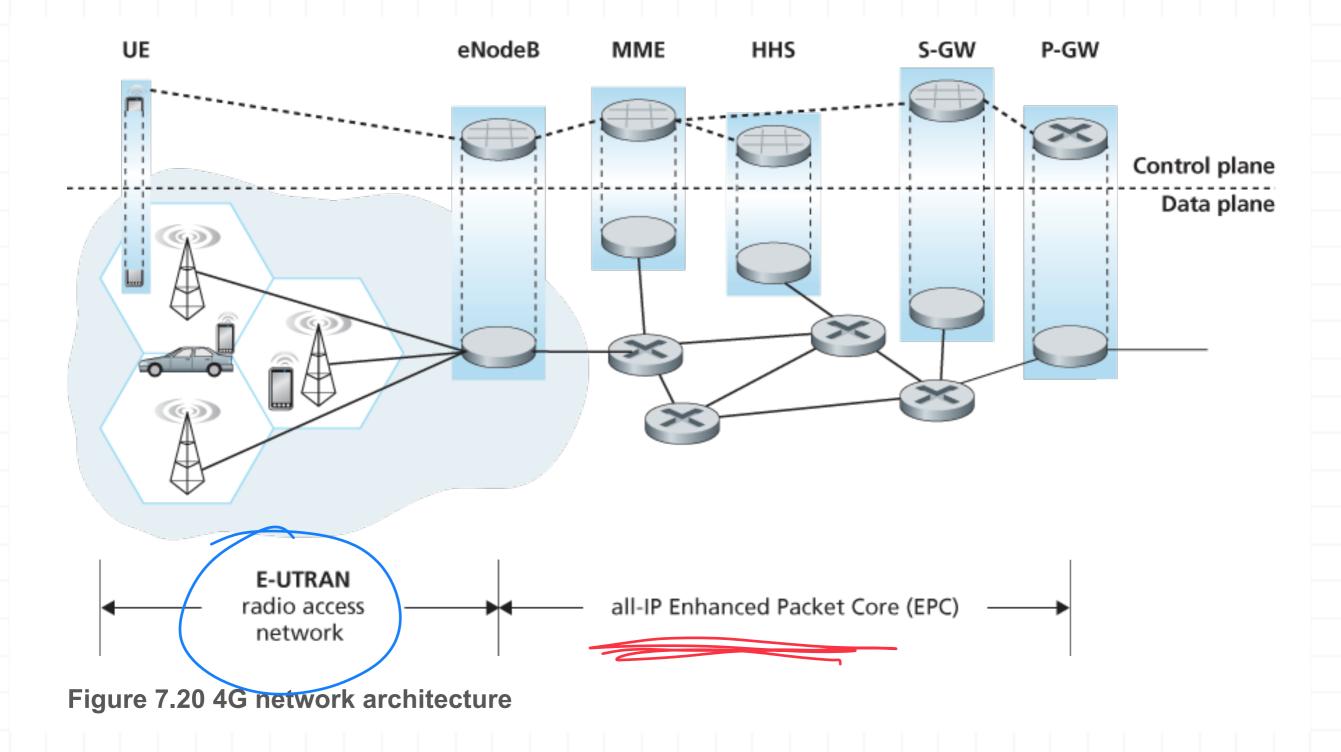


Figure 7.19 3G system architecture

A Top-Down Approach with Access. James Kurose and Keith Ross. Publisher: Pearson, Edition: 7th, 2016.



A Top-Down Approach with Access. James Kurose and Keith Ross. Publisher: Pearson, Edition: 7th, 2016.

¿Cómo afecta la movilidad en los protocolos superiores?

UDP: dependeré de la aplicación
TCP: cree que hay algon
mecanismo de congestión

				<u>próxir</u>												g: A	Тор-	Dow	'n		
Approach. James Kurose and Keith Ross. Publisher: Pearson, Edition: 7th, 2016.																					